



**MICHIGAN DEPARTMENT OF ENVIRONMENTAL QUALITY
CAMPGROUNDS & POOLS UNIT
WATER BUREAU**



CERTIFIED MAIN DRAIN COVER LIST

This document lists suction covers for main drains and other suction outlets that are certified to ASME/ANSI A112.19.8-2007 or ASME/ANSI A112.19.8a-2008 as required by the Virginia Graeme Baker Pool & Spa Safety Act of 2007 (VGB Act). This list is NOT exhaustive and covers will be added as the Michigan Department of Environmental Quality (DEQ) becomes aware of additional certified covers. Please check our website frequently for updates.

Manufacturer	Model Number	Description	Open Area (sq in)	Michigan Flow Rate for One Cover (gpm)	Michigan Maximum Flow Rate for Two Covers (gpm)
Afras Industries	10064 (ABF 64)	8" round	6	19	37
	10064A (ABF 64A)	11" round	16	50	100
Aquastar Pool Products, Inc. VGB Series	8AVxxx	8" round cover	8.8	27	55
	RFS9xxx	9" square retrofit to 8" round	8.8	27	55
	LP8AVxxx	8" round low profile cover	7.7	24	48
	LPRFS9xxx	9" square retrofit to 8" round low profile	7.7	24	48
	10AVxxx	10" round cover	11.2	35	70
	RFS12xxx	12" square retrofit to 10" round	11.2	35	70
	WAV9xxx	9" square	44.2	138	276
	RWAV9xxx	9" square w/different screw sets	44.2	138	276
	WAV12xxx	12" square	85.2	266	531
	RWAV12xxx	12" square w/different screw sets	85.2	266	531
	1216xxx	16" square retrofit to 12" square	101	315	630
	R1216xxx	16" square retrofit to 12" square	101	315	630
	WAV18xxx	18" square using 4 WAV9	176.8	551	1102
	WAV24xxx	24" square using 4 WAV12	340.8	1062	2124
	32CDAV	32" x 3.5" AV style domed grate	22.6	70	141
	32CDFL	32" x 3.5" AV style domed grate	22.6	70	141
	32CDAVFR	32" x 3.5" flat grate	25.9	81	161
32CDFLFR	32" x 3.5" flat grate	25.9	81	161	
	(xxx = color)				
A&A Manufacturing	AVSC 552921	8" x 31.5" channel drain 1 port*	66.1	206	412
	AVSC 554599	8" x 31.5" channel drain 1 port w/ hydrostat*	66.1	206	412
	AVSC 556383	8" x 31.5" channel drain 2 port*	66.1	206	412
	AVSC 556391	8" x 31.5" channel drain 2 port w / hydrostat*	66.1	206	412
		* Estimated dimensions			
Balboa Water Group	30231U-xx	5" round	Pending	Pending	Pending
BeeSafe Systems, LLP	BeeSafe System	46" diameter cover for 8" round, 10" round, 9" square. 12" square, and some 18" square drains	146.25	456	912
Commercial Pool & Spa Supplies	CPP102008	21" x 23" retrofit cover w / surrounding 3.5" wide frame	166.75*	450*	900*
			* Estimated 34.5% o. a.	* Approval limitation	* Approval limitation
Custom Molded Products, Inc.	CMP 25201-03x	5" diameter plastic cover*	12.36	39	77
	CMP 25202-019	5" diameter stainless steel cover*	12.36	39	77
	CMP 25215-00x	6" diameter cover	12.88	40	80

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		* For installation with wall plate on 2" piping or larger			
Eureka Manufacturing Company	AV20x20	20" square stainless steel cover for up to 12" square drains	73.6	229	459
	AV26x26	26" square stainless steel cover for up to 18" square drains	108.9	339	679
	AV32x32	32" square stainless steel cover for up to 24" square drains	144.3	450	899
	AV44x44	44" square stainless steel cover for up to 36" square drains	209.1	651	1303
Gary Equipment Company	8/24 Retro	24" diameter cover for 8" round drains	31.08	97	194
Hayward	WG 1048E	8" round cover	8.1	25	51
	WG 1048EW	8" round wall cover	8.1	25	51
	WG 1031B	9" x 9" square	17.81	56	111
	WG 1032B	12" x 12" square	32.37	101	202
	WG 1033	18" x 18" square	71.25	222	444
Lawson Aquatic	MLD-FGD-0909	9" square (pending)	42.12	131	263
	MLD-FGD-1212	12" square	81.3	253	507
	MLD-FGD-1818	18" square	183.06	571	1141
	MLD-FG-1836	18" x 36" (can add 18" lengths)	343	1069	2138
	MG-FG-2424	21" x any length in 1" increments, "unblockable" sizes only.	216.00	673	1346
Neptune-Benson	Aegis 3030AEC	30" square fiberglass cover	128.21	400	799
New Water Solutions Drainsafe	DS 360	11" diameter for retrofit up to 8" round	27	84	168
	DS 360 M	11" diameter for retrofit up to 8" round	27	84	168
	DS 360 X	9" square retrofit using 11" diameter cover	27	84	168
	DS 12X12H	12" square retrofit for Hayward	53	165	330
	DS 12X12P	12" square retrofit for Pentair	53	165	330
Paddock Pool Equipment Company	2020PCDC	20" square for use w/Paddock Safe Sump Box or a field built sump approved by a registered design professional	122.4 (calc)	382	763
	2424PCDC	24" square for use w/Paddock Safe Sump Box or a field built sump approved by a registered design professional	186.6	582	1163
Paramount Pool and Spa Products	SDX	10" diameter for 8" and 10" round drains	43.201	144	200*
	SDX Retro	10" diameter for 8" and 10" round drains	43.201	144	200* * Approval limitation
Pentair	50010X	8" round cover	15.35	48	96
	50011X	8" round cover w/sump	15.35	48	96
	50012X	8" round cover w/sump	15.35	48	96
	50013X	8" round cover w/sump	15.35	48	96
	500200*	9" square	41.40	129	258
	500202*	12" square	73.02	228	455
	500204*	18" square	185.29	578	1155
	* Not available				
Triodyne Safety Systems	Anti-Hair Snare Plus TSS-2800CS	8" round cover	9.678	45* *Approval at 1.5 ft/sec	91* *Approval at 1.5 ft/sec

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Waterway Plastics	640-231X V	8" round cover	11.83	37	74
	640-311X V	10" round cover	14.34	45	89
	640-470X V	9" square	39.9	124	249
	640-472X V	12" square	62.4	195	389
	640-475X V	18" square (4 - 9" sq)	159.6	497	995
	640-358X V	5" round spa suction	9.02	28	56
World Wide Sports	Star 100	13" diameter for 5" to 10" round and 9" square sumps	24	75	150
	Star 200	Pending	Pending	Pending	Pending

Please select drain covers based on the flow rates listed in the two right hand columns. Michigan Public Swimming Pool Rule 42 on Main and Other Outlets lists the specific requirements for suction fittings for public swimming pools in Michigan. Two suction outlets, three feet apart are required. Certified covers on this list may not be accepted for installation on a particular pool because the flow rate does not comply in Michigan.

It is required that the make and model number of any replacement main drain cover be supplied to DEQ for approval prior to installation. Please go to our main drain replacement form:

http://www.michigan.gov/documents/deq/deq-wb-dwehs-sp-drainreplacform_251617_7.pdf

The federal VGB Act requires certified suction covers for all indoor pools by December 19, 2008. All outdoor pools must have certified covers prior to opening in 2009. Several manufacturers are currently in the process of having covers and drain sumps tested for certification to the ASME standard. These covers and drain sumps are expected to be available in soon.

It is important to note that in order to provide and install certified covers, it may be necessary to change the attachment frame and/or the drain sump as well. Only a professional evaluation can determine if a new cover can be safely attached to an existing attachment frame. The professional evaluation may determine that certified drain covers cannot be attached without a significant modification to the pool drains. A construction permit will be required for any significant modification to a pool.



All certified covers are required to be marked with "VGB 2008" similar to the logo that is shown on the left. They will also be marked with "ASME A112.19.8 – 2007" and/or "ASME A112.19.8a – 2008". The marking must be embossed on the cover in a location where it is visible when the cover is installed. A Certificate of Conformity should be provided to the pool owner or operator when the covers are installed. If a cover is not embossed with "VGB 2008" or ASME A112.19.8-2007 or 8a-2008, it is not certified to the standard and does not meet the requirements of the federal VGB Act. These covers must be replaced with certified covers.

NOTE: The information in this document is intended to supplement the public swimming pool portions of the Public Health Code, 1978 PA 368, as amended, and the Public Swimming Pool Rules. These comments do not replace or supersede any portion of the Act and Rules. To download a copy of the Public Swimming Pool Act and Rules, please go to www.michigan.gov/deqwb and click on Campgrounds & Pools.