

3M Water Filtration
3M™ ScaleGard® Pro Range



Scale reduction
for coffee, vending
and steamers



Market and main product claims

- There are over 3 000 000 vending machines, coffee machines, steamers and ware washing machines in Western Europe.
- The need for competitive and functional scale reduction that protects equipment and leaves the right elements in the water to make great tasting hot beverages has never been of more importance.

Range offering and key benefits

- The ScaleGard® Pro range from 3M is comprehensively split into two ranges - standard and H+ and available in most sizes with the option of a fixed bypass or non-bypass.
- This means a product that meets the needs of all types of machines whether they have a small or very high capacity.

Scale protection types and range features & benefits



3M™ ScaleGard® Pro Coffee, Vending and Steamer scale control range and technical specifications

System	Cartridge		Description	Recommended Head		Flow rate (l/min)
	Model	Part Number		Model	Part Number	
SGP range - With Bypass						
SGP124BN-E	P124BN-E	XA004809001	P124BN-E Cartridge			1,9
SGP145BN-E	P145BN-E	XA004817541	P145BN-E Cartridge	VH3 3/8" BSPT	70020114164	1,9
SGP165BN-E	P165BN-E	XA004817533	P165BN-E Cartridge			3,8
SGP195BN-E	P195BN-E	XA004817525	P195BN-E Cartridge			3,8
SGP1175BN-E	P1175BN-E	XA004809274	P1175BN-E Cartridge	VH3 3/8" BSPT-NB	70020294172	3,8
SGP range - No Bypass						
SGP115-E	P115-E	XA004809050	P115-E Cartridge			1,9
SGP145-E	P145-E	XA004817574	P145-E Cartridge	VH3 3/8" BSPT	70020114164	1,9
SGP165-E	P165-E	XA004817566	P165-E Cartridge			3,8
SGP195-E	P195-E	XA004817558	P195-E Cartridge			3,8
SGP1175-E	P1175-E	XA004809282	P1175-E Cartridge	VH3 3/8" BSPT-NB	70020294172	3,8
SGP H+ range - With Bypass						
SGP145BH	P145BH	XA004817624	H+ P145BH Cartridge			1,9
SGP165BH	P165BH	XA004817608	H+ P165BH Cartridge	VH3 3/8" BSPT	70020114164	3,8
SGP195BH	P195BH	XA004817582	H+ P195BH Cartridge			3,8
SGP1175BH	P1175BH	XA004819588	H+ P1175BH Cartridge			VH3 3/8" BSPT-NB
SGP H+ range - No Bypass						
SGP145H	P145H	XA004817632	H+ P145H Cartridge			1,9
SGP165H	P165H	XA004817616	H+ P165H Cartridge	VH3 3/8" BSPT	70020114164	3,8
SGP195H	P195H	XA004817590	H+ P195H Cartridge			3,8
SGP1175H	P1175H	XA004819570	H+ P1175H Cartridge			VH3 3/8" BSPT-NB
Alternative Heads						
				VH3 3/8" JG	70020211499	
				VH3 3/8" JG-NB	70020294164	
Accessories		XA004827391	Digital Flow Meter Kit			

Full scale treatment offering from 3M Water Filtration

- The range features a common head connection to help with upsizing or allows a product from another range to be retrofitted.
- Changing cartridges is quick and sanitary (SQC) with no need to shut off water supply and can be done by non-skilled staff saving costly engineering time.
- This resin based range is part of a total range from 3M that includes scale inhibition products, softening products and Reverse Osmosis products.
- With resin the most highly used method in Europe for scale reduction and removal, this range is unique and meets customer needs from small coffee machines right through to large vending machines and steamers.



SGP195



SGP1175



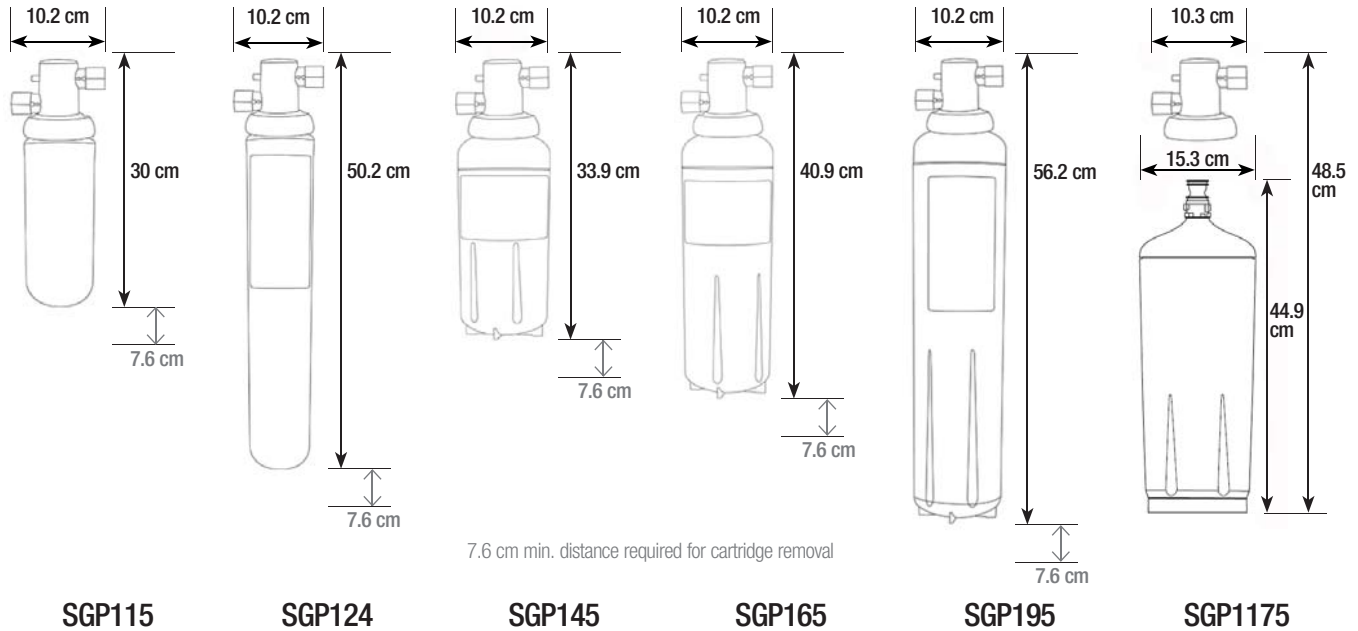
VH3-BSPT head
VH3-JG head



VH3-BSPT / VH3-JG
no bracket head

Proportional/Filtered Bypass	Scale Capacity (litres) at 180 ppm	CTO Reduction	Resin	Machine Capacity	Coffee	Applications		
						Vending	Combi Ovens	Steamers
N	1600	•	Standard	S	•	•		
Y	1600	•	Standard	S	•	•		
Y	2250	•	Standard	M	•	•		
Y	3800	•	Standard	L	•	•		
Y	6000	•	Standard	XL	•	•		
N	600	•	Standard	VS	•	•	•	•
Y	1200	•	Standard	S	•	•	•	•
Y	1690	•	Standard	M	•	•	•	•
Y	2850	•	Standard	L	•	•	•	•
Y	4500	•	Standard	XL	•	•	•	•
Y	2240	•	H+	S	•	•	•	•
Y	3173	•	H+	M	•	•	•	•
Y	5289	•	H+	L	•	•	•	•
Y	8400	•	H+	XL	•	•	•	•
Use where corrosion is not an issue								
Y	1680	•	H+	S	•	•	•	•
Y	2380	•	H+	M	•	•	•	•
Y	3967	•	H+	L	•	•	•	•
Y	6300	•	H+	XL	•	•	•	•
Use where corrosion is not an issue								

Dimensions



Scale Capacity - Sizing Guide

Incoming hardness				Litres throughput									
ppm	° e	° d	° f	SGP115		SGP124 - SGP145		SGP165		SGP195 *		SGP1175	
				Litres	Cups *	Litres	Cups *	Litres	Cups *	Litres	Cups *	Litres	Cups *
140	9.8	7.8	14	771	5143	2057	13714	2914	19429	4857	32381	7714	51429
180	12.6	10.1	18	600	4000	1600	10667	2267	15111	3778	25185	6000	40000
210	14.7	11.8	21	514	3429	1371	9143	1943	12952	3238	21587	5143	34286
250	17.5	14.0	25	432	2880	1152	7680	1632	10880	2720	18133	4320	28800
280	19.6	15.7	28	386	2571	1029	6857	1457	9714	2429	16190	3857	25714
320	22.4	17.9	32	338	2250	900	6000	1275	8500	2125	14167	3375	22500
360	25.2	20.2	36	300	2000	800	5333	1133	7556	1889	12593	3000	20000
390	27.3	21.8	39	277	1846	738	4923	1046	6974	1744	11624	2769	18462
430	30.1	24.1	43	251	1674	670	4465	949	6326	1581	10543	2512	16744

Capacities are guidelines only. Actual capacity may vary.

* Cup size based on 150 ml dispense. For number of cups divide capacity in litres by 0.15.

All capacities based on 25% bypass. For non-bypass, capacity should be reduced by 25%.

For H+ range capacities are 40% higher so multiply by 1.4 to work out capacity.

For commercial use with cold water only. For all systems, heads and cartridges are sold separately. Maximum operating pressure is 100 psi (6.9 bar). Inlet and outlet connections are 3/8" BSP or JG female. All materials are FDA CFR 21 compliant. Maximum operating temperature is 37.8 °C.

Do not use with water that is microbiologically unsafe or of unknown quality without adequate disinfection before or after the system. In line with current good practice filters should be changed every 12 months, on reaching capacity or if a noticeable drop in performance occurs. Scheduled maintenance is recommended. 3M cannot be liable for system failures due to improper maintenance.



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