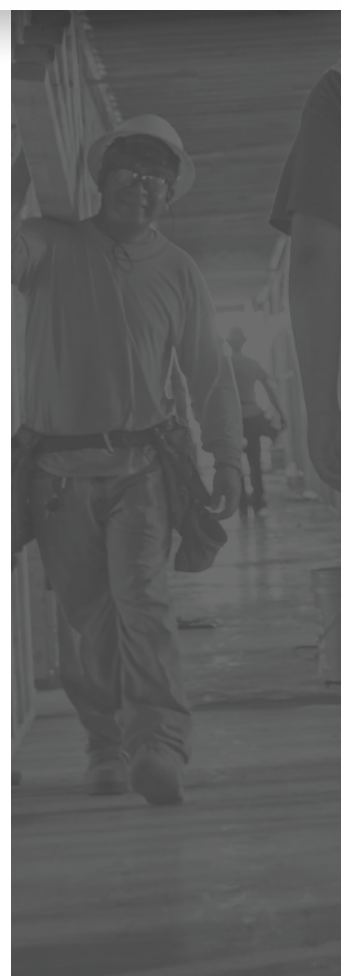


# DELIVERING RELIABILITY



We installed our first pipe in 1959-and haven't stopped since. A marketplace leader, we use our experience to guide partners to better their businesses. Providing support every step of the way, we ensure proper installation and delivery of pure water supplies that communities can count on for a lifetime. Ultimately, instilling confidence in your business and the positive impacts it can make on homes, workplaces and plants.

**FLOWGUARD® PLUS**  
CPVC PLUMBING SYSTEMS™



## PLUMBING PRODUCTS

### FlowGuard® Plus

SDR - 11	
<b>Pressure Ratings</b> 8.79 kg/cm <sup>2</sup> @ 82° C 28.1 kg/cm <sup>2</sup> @ 23° C	<b>ASTM Cell Class</b> 23447
SDR - 13.5	
<b>Pressure Ratings</b> 7.03 kg/cm <sup>2</sup> @ 82° C 22.5 kg/cm <sup>2</sup> @ 23° C	<b>ASTM Cell Class</b> 23447

### Other CPVC Products

SDR - 11	
<b>Pressure Ratings</b> 7.03 kg/cm <sup>2</sup> @ 82° C 28.1 kg/cm <sup>2</sup> @ 23° C	<b>ASTM Cell Class</b> 23447
SDR - 13.5	
<b>Pressure Ratings</b> 5.62 kg/cm <sup>2</sup> @ 82° C 22.5 kg/cm <sup>2</sup> @ 23° C	<b>ASTM Cell Class</b> 23447

## TECHNICAL DETAILS OF FLOWGUARD® PLUS

(Abbreviation: OD = Outer Diameter, ID = Inner Diameter, WT = Wall Thickness, mm = Millimeter)

Coefficient of Thermal Expansion	ASTM D 696	6.3X10 <sup>-5</sup> m/m/°K
Thermal Conductivity	ASTM C 177	0.14 W/m/°K

FlowGuard® Plus CPVC SDR 13.5					FlowGuard® Plus CPVC SDR 11		
Inch	mm	OD (mm)	ID (mm)	WT (mm)	OD (mm)	ID (mm)	WT (mm)
½"	15	15.90	13.10	1.40	15.90	12.44	1.73
¾"	20	22.20	18.90	1.65	22.20	18.14	2.03
1"	25	28.60	24.36	2.12	28.60	23.42	2.59
1 ¼"	32	34.90	29.72	2.59	34.90	28.54	3.18
1 ½"	40	41.30	35.18	3.06	41.30	33.78	3.76
2"	50	54.00	46.00	4.00	54.00	44.20	4.90

Normal Pipe Size Inch	FlowGuard® Plus Schedule 40 Maximum Water Pressure					FlowGuard® Plus Schedule 80 Maximum Water Pressure				
Inch	mm	OD (mm)	WT (mm)	ID (mm)	kg/cm <sup>2</sup> (PSI)	OD (mm)	WT (mm)	ID (mm)	kg/cm <sup>2</sup> (PSI)	
2 ½"	65	73.30	5.16	62.10	21.10 300	73.30	7.01	59.28	28.7 420	
3"	80	88.90	5.49	77.27	18.28 260	88.90	7.62	72.75	26.02 370	
4"	100	114.30	6.02	101.50	15.47 220	114.30	8.56	96.16	22.50 320	
6"	150	168.28	7.11	153.19	12.66 180	168.28	10.97	145.01	19.59 280	

## TEMPERATURE DERATING FACTORS AT WORKING PRESSURE

Working Temperature		Pipe Derating Factor	
°F	°C	Other CPVC	FlowGuard® Plus
73 - 80	23 - 27	1.00	1.00
90	32	0.91	0.91
100	38	0.82	0.83
120	49	0.65	0.70
140	60	0.50	0.57
160	71	0.40	0.44
180	82	0.25	0.31

## FLOWGUARD® PLUS

CPVC PLUMBING SYSTEMS™

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## GLOBALY TRUSTED

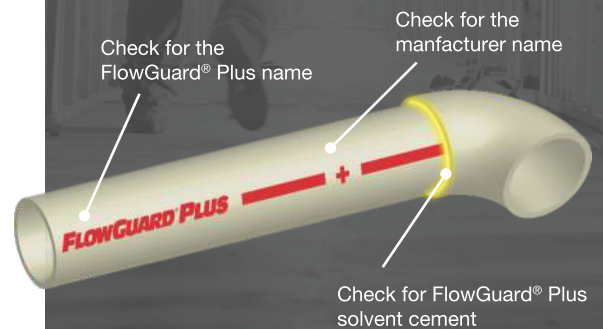
For nearly 60 years, FlowGuard® Pipe and Fittings has been the most widely used piping system in the world. Experienced, trusted and always ready to deliver the highest-quality product, FlowGuard Plus Pipe and Fittings focus on ensuring safety and security with every installation.

## GLOBALY APPROVED

FlowGuard® Plus Pipes, fittings and solvent cement have worldwide approvals for potable water use. Our compounds are NSF-PW certified. FlowGuard Plus pipes, fittings and solvent cement made by our partners also meet code requirements of ASTM (America), JIS (Japan), DVGW (Germany), WRAS (UK), CSTB (France), KIWA (The Netherlands), TSE (Turkey) & CSA (Canada), BIS (India).

## DESIGNED FOR THE HIGHEST PERFORMANCE

Our superior compounds allow our customers to manufacture FlowGuard® Plus pipes, fittings and solvent cement with the highest level of reassurance for safety and reliability.



Visit [LubrizonCPVC.com](http://LubrizonCPVC.com) or call +91-22-6602 7800 to learn more.

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