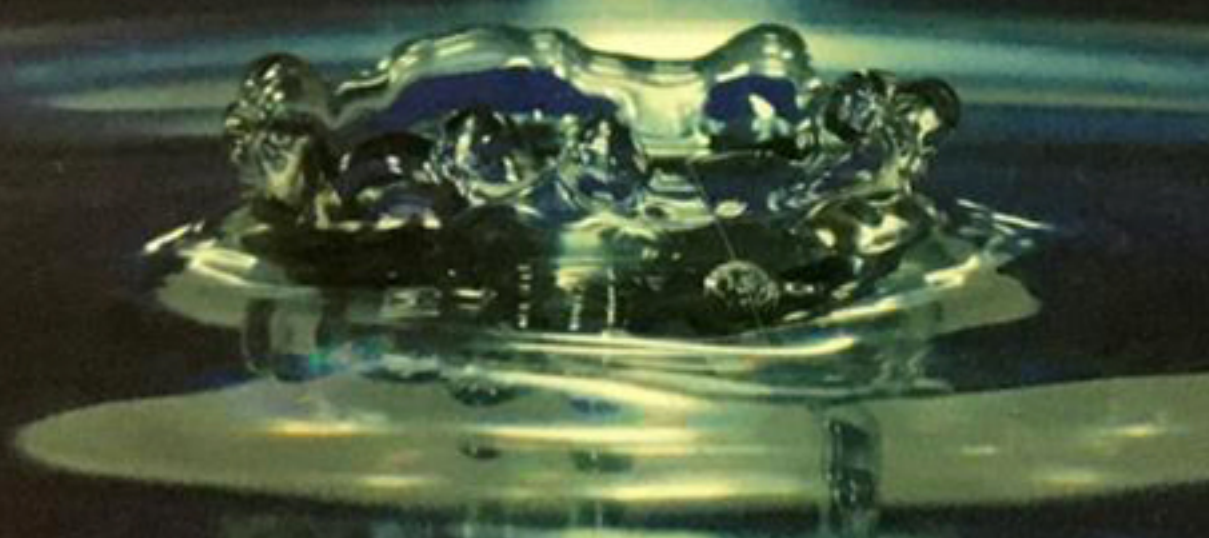


DESIGN CPVC-PIPES FOR

HOT & **COLD**
WATER SYSTEMS





IT Tolerates Sunlight and Low Temperatures (Frost)

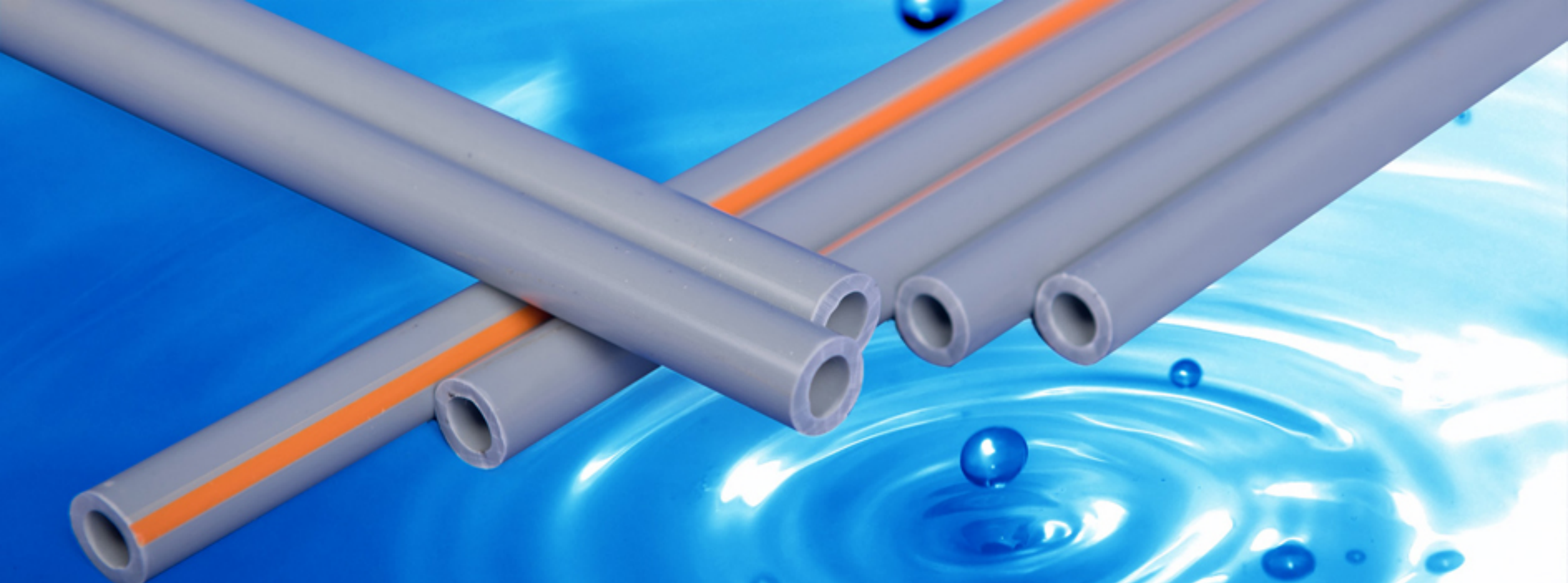


DESIGN FOR PLASTICS
INDUSTRIES COM. LTD



DESIGN FOR PLASTICS
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Tough and
Shatter Resistant



Healthy Drinking Water



DESIGN FOR PLASTICS
INDUSTRIES COM. LTD

CPVC Pipe

Bear
High Temperature
water

CPVC advantage over Copper

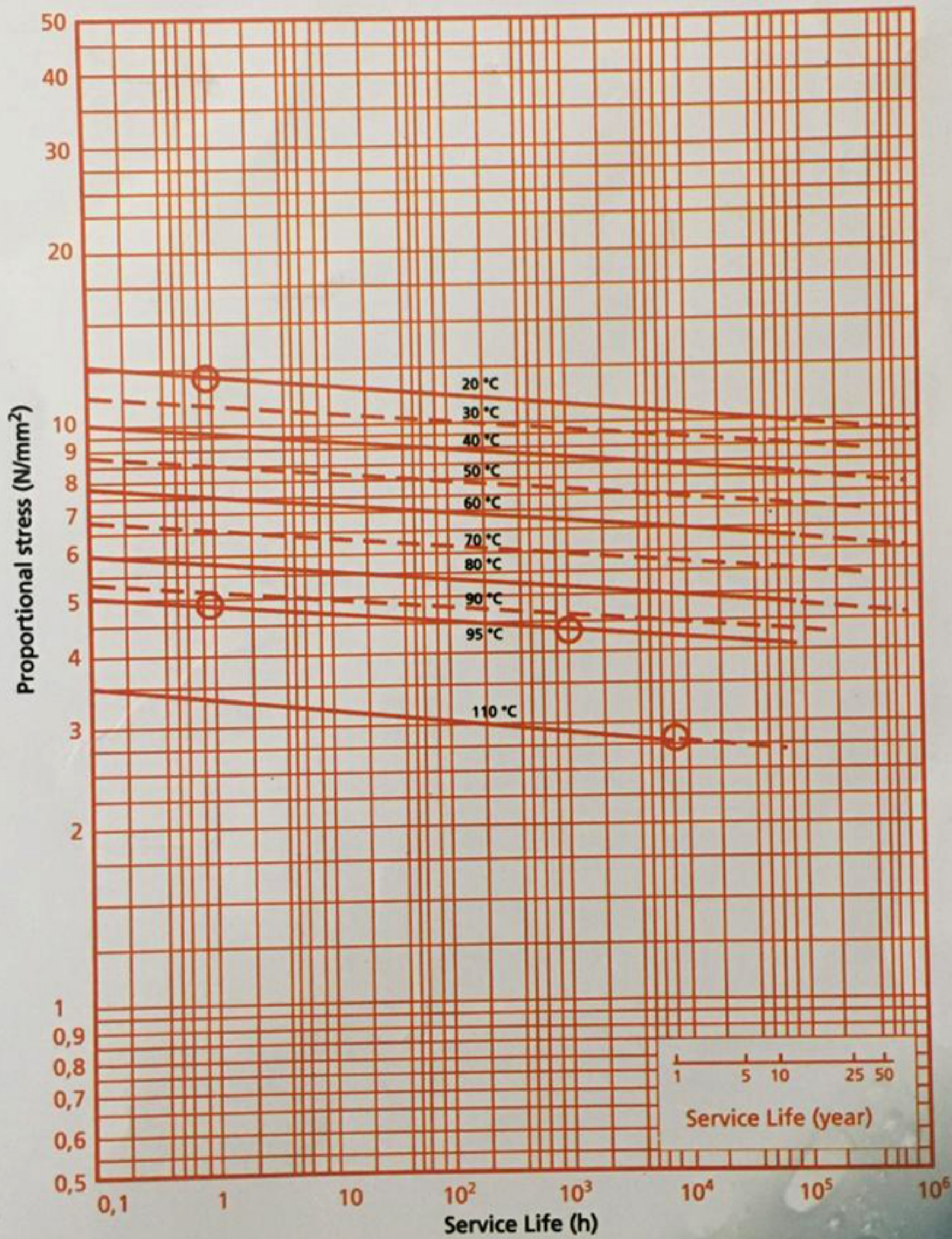
- No contamination of water supply due to corrosion by products .
- Meets third party (NSF, CSTB, DVGW, WRC, TSE) requirements for potable water safety .
- Price stability
- Eliminates electrolysis
- Long term product performance (50 + years)
- Superior insulation reduces heat loss and condensation problems
- Reduced water hammer, quieter than copper
- Full bore flow
- Eliminates scale and corrosion problems
- Reduce job site theft loss
- Elimination of torch use
- Straight, professional appearance

Dimensions based on ASTM F 441 / F441 M Schedule 80

NOMINAL PIPE SIZE	MEAN OUTSIDE DIAMETER		MINIMUM WALL THICKNESS		NOMINAL WEIGHT	MAXIMUM WORKING PRESSURE	
	Inch	(mm)	Inch	(mm)		psi	MPa
1/2	0.840	21.34	0.147	3.73	0.337	850	5.86
3/4	1.050	26.67	0.154	3.91	0.457	690	4.76
1	1.315	33.40	0.179	4.55	0.671	630	4.34
1-1/4	1.660	42.16	0.191	4.85	0.928	520	3.59
1-1/2	1.900	48.26	0.200	5.08	1.13	470	3.24
2	2.375	60.33	0.218	5.54	1.56	400	2.76



Service life us proportional stress in different operation temperatures



**MATERIAL
PROPERTIES**

Chlorinated Polyvinyl Chloride (CPVC)

All values at (73° F) 23°C

**MATERIAL
TABLE :**

PROPERTY	ASTM TEST METHOD	UNIT	VALUE
General Properties :			
Density	D-792	g/cm ³	1.55
Water absorption	D-570/24 hrs	%	0.03
Co-efficient of friction	Hazen-Williams	C(factor)	150
Mechanical Properties :			
Tensile Strength	D-638	MPa	55
Tensile Modulus	D-638	MPa	2810
Flexural Stress	D-790	MPa	100
Flexural Modulus	D-790	MPa	2640
Izod Impact Strength	D-256	J/m	100
Hardness (Rockwell)	D-785	R	119
Thermal Properties :			
Heat Deflection Temp.	D-648 (1.82MPa)	C	106
Vicat Softening Temp.	D-1525 (rate B)	C	127
Co-efficient of Linear Thermal Expansion	D-696	cm/(cm c)	6.3 x 10 ⁻⁵
Thermal Conductivity	C 177	W/MK	0.14
Flammability Properties :			
Flammability	D-635	Resistance	Self extinguishing
Rate of burning	D-635	s	<10
Extent of burning	D-635	mm	<25
Underwriter Lab. Rating	UL-94/0.062"	Rating	V-0

Chemical Properties

Design CPVC pipe has excellent chemical resistance to strong mineral acids and bases

