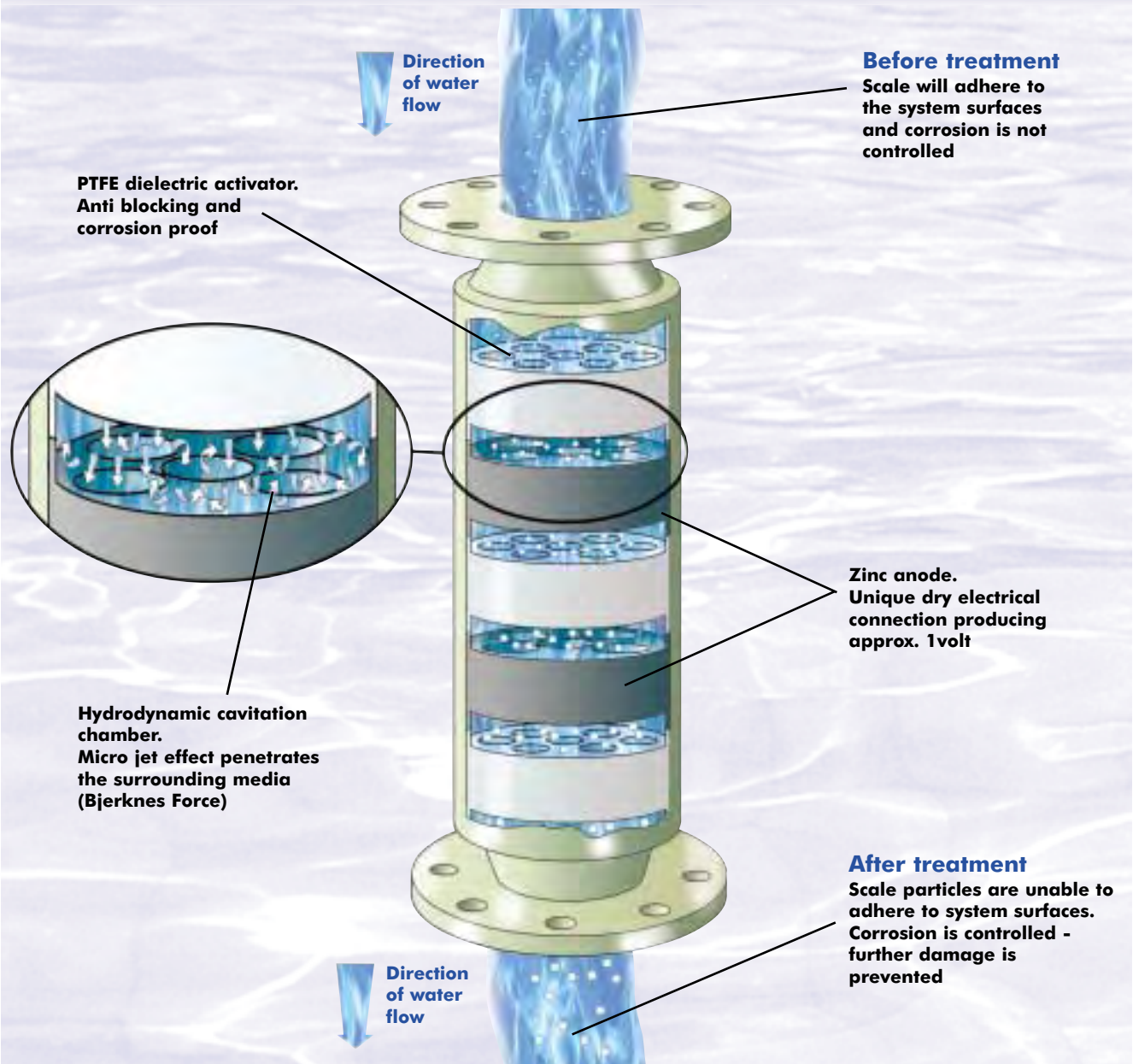


SCALE-BUSTER®

ISB® Technology - Commercial Range

Scale-Buster: an electro-static and cavitational process with galvanic action



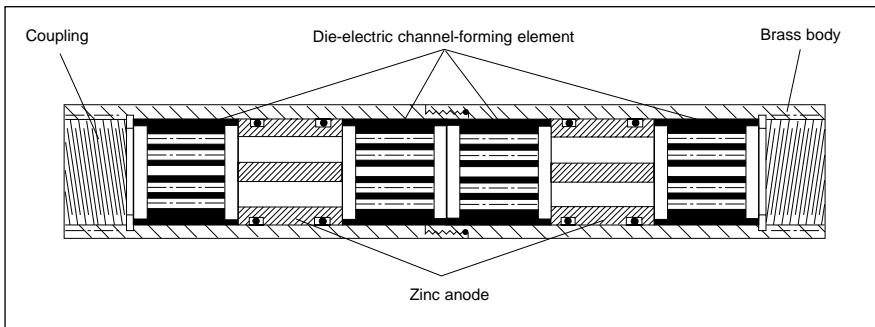
- Self cleaning and maintenance free
- Prevents and removes scale and corrosion
 - Handles total water systems
 - Suitable for hard and soft water
- Operates without the use of chemicals, magnets or electricity



The function of Scale-Buster as a physical water conditioner is to inhibit and remove scale and/or corrosion in general pipework, heating and plumbing equipment, appliances, processing equipment and cooling towers etc.

Commercial Range

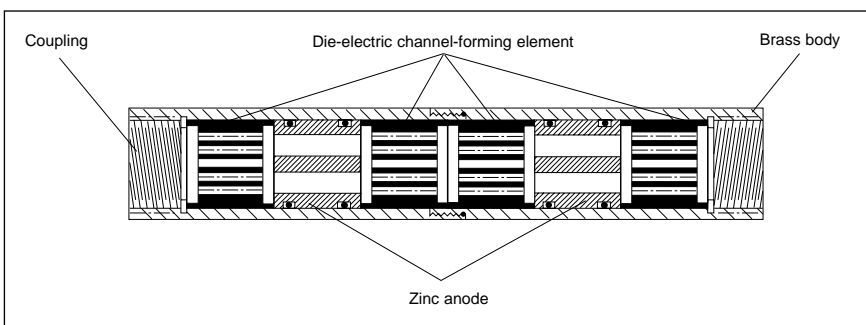
MODEL	PIPE SIZE		CONNECTION SIZE BSP	O/A LENGTH mm	O/A DIA. mm	NETT WEIGHT kg
	mm	in				
ISB C 15	15	½	½ in male	120	30	0.4
ISB C 20	20	¾	¾ in female	260	44	2.2
ISB C 25	25	1	1 in female	300	57	3.5
ISB C 32	35	1¼	1¼ in female	330	65	4.2
ISB C 40	40	1½	1½ in female	360	69	5.2
ISB C 50	50	2	2 in female	390	76	8.8



Low Flow Range

The low flow range is designed specifically for applications where water consumption is significantly less than the standard pipe size supplying the appliance. Such products should be used **in conjunction with complete building protection.**

MODEL	FLOW RATE PER SECOND. (Approx)	CONNECTION SIZE BSP	O/A LENGTH mm	NET WEIGHT kg	TYPICAL APPLICATIONS (Examples)
ISB D 03	0.01 - 0.03 L	½ in female	100	0.2	Humidifiers Combi/Steam ovens
ISB D 06	0.03 - 0.07 L	½ in female	100	0.2	Vending machines Instant water heaters
ISB D 07	0.07 - 0.15 L	½ in female	100	0.2	Electric showers



General information about Scale-Buster

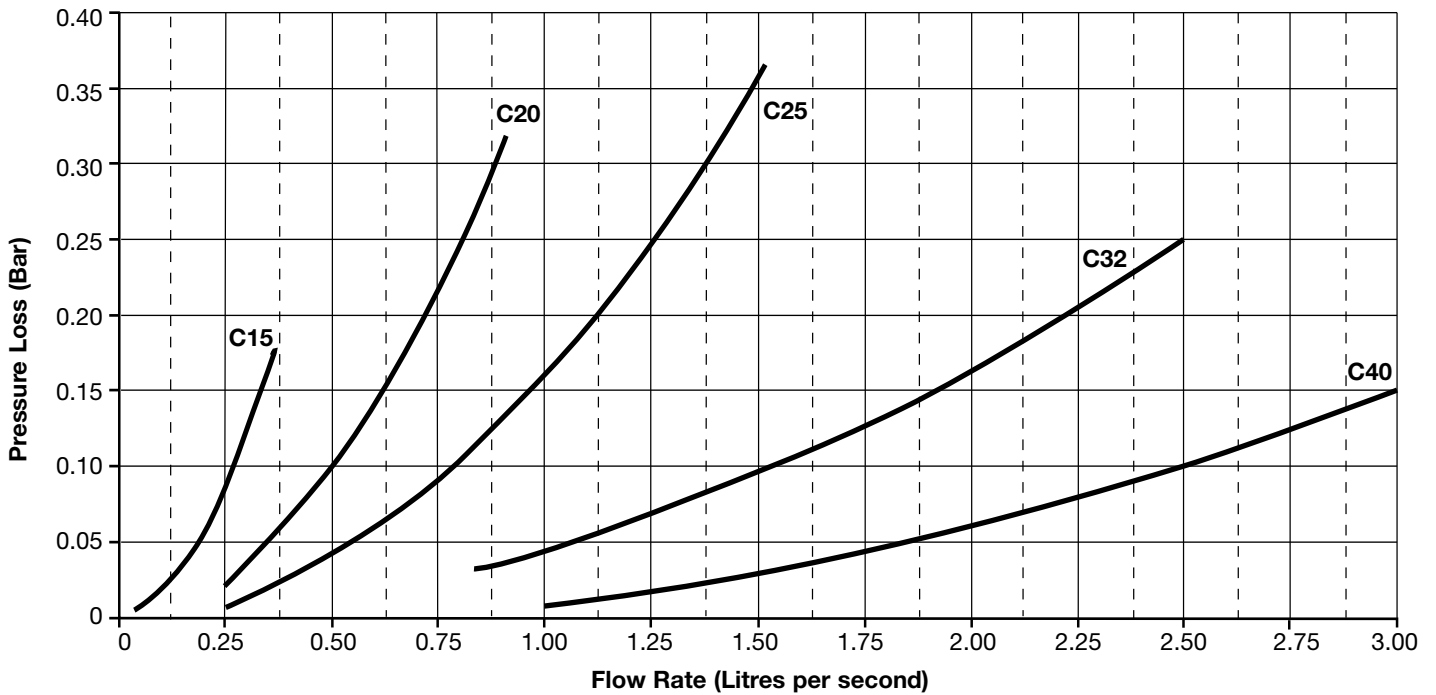
- FLOW RATES** Optimal flow rates range between 1 to 2 metres per second and therefore performance is not sensitive to fluctuation in rate of flow or variable water pressures. The body is specifically constructed to compensate for such irregularities. **It is recommended that a unit is selected to match the flow rate** as opposed to pipe size (refer to How to Size Scale-Buster)
- INSTALLATION** Where water quality is poor, it is recommended that the product be installed vertically to avoid build up of debris. Scale-Buster is designed for use in potable water supplies and apart from certain instances, such as central heating and cooling towers, is best installed in the cold water feed supply lines. Earthing is important to the performance of ScaleBuster.
- PIPE SIZES** Our full range of Scale-Buster models ranges from 1/2in (15mm) to 8in (200mm) Sizes outside these models can be produced subject to discussion.
- SPECIALS** Units required for conditions exceeding those stated above, please contact distributor.
- WARRANTY** There is a 5 year manufacturer's warranty. For full conditions contact distributor.
- BODY MATERIAL** **Industrial range**
Flanged units are rated at a maximum working pressure of 16 bar (40 bar pressure models are available - details on request)
Body and flanges: Nickel plated brass/phosphur bronze to Defence Standard 035 finish.
- Commercial and Low Flow range**
Rated at max. 16 bar working pressure. Constructed of: Brass BS 2874
CZ121; Zinc BS 6561; Polytetrafluoroethylene (PTFE) DEF standard AQAP4 MOD approval.
- SPECIAL NOTE** When used in non-potable water applications or in a processing function it may be necessary to have an inline filter prior to Scale-Buster and sensitive equipment.

Pressure Loss Statistics

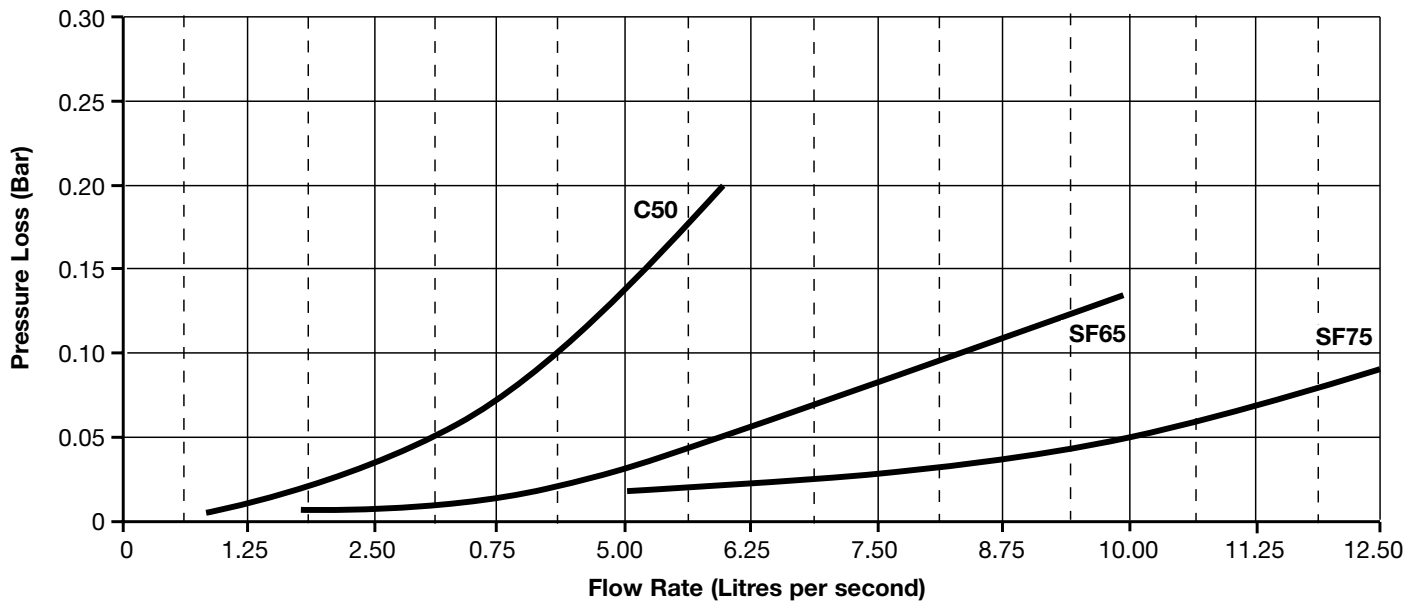
Metric/imperial comparison chart

1.0 bar	10.0 m	1000 cm	100 kpa	33.00 ft	396.00 in
0.1 bar	1.0 m	100 cm	10 kpa	3.30 ft	39.60 in
0.01bar	0.1 m	10 cm	1 kpa	0.33 ft	3.96 in

Commercial Range



Industrial/Commercial Range



How to size Scale-Buster

- a) Calculate maximum flow rates as per normal procedures - (peak demand)
- b) Estimate likely average flow rate demand
- c) Initially size on b), then calculate pressure loss at peak demand a). If pressure loss (at peak demand) is acceptable you have correctly sized Scale-Buster
- d) If peak demand has too high a pressure loss then increase one pipe size until correct balance is achieved.

Recommended Flow Rates

Based on 1 to 2 metres per second mean average velocity.

For short time periods a flow rate up to 3 metres per second is acceptable.

For pipe sizes above 2 inches, please see Industrial info document

Low Flow Range			Commercial Range			Industrial Range		
MODEL	SIZE in	FLOW RATE litres per second	MODEL	SIZE in	FLOW RATE litres per second	MODEL	SIZE in	FLOW RATE litres per second
ISB D 03	½	0.01 - 0.03	ISB C 15	½	0.13 - 0.26	ISB SF 65	2½	3.25 - 6.50
ISB D 06	½	0.03 - 0.07	ISB C 20	¾	0.26 - 0.52	ISB SF 75	3	4.50 - 9.00
ISB D 07	½	0.07 - 0.15	ISB C 25	1	0.50 - 1.00	ISB SF100	4	8.00 - 16.00
			ISB C 32	1¼	0.80 - 1.60	ISB SF125	5	12.50 - 25.00
			ISB C 40	1½	1.20 - 2.40	ISB SF 150	6	17.00 - 34.00
			ISB C 50	2	2.00 - 4.00	ISB SF 200	8	34.00 - 68.00



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Other Major Water Treatment Products

- Cyclone filtration
- UV disinfectant
- Chlorine dioxide treatment

Literature Available

Literature available on all products

SBT issue: 1 12.06