

WATER-HAMMER PREVENTER FOR WATER SYSTEMS

STOPSHOCK 145

INSTRUCTION AND PDI CLASS FOR STOPSHOCK 145

For a correct choice and installation of our water hammer absorber STOPSHOCK 145 we suggest to follow the indication of the PDI classification.

Our Stopshock valve have been tested in our factory and they meet the C Class in PDI classification.

The PDI norm is based on 'fixture-units': this is a single value given to each device present in the water system, managing the probability of coincidental valve closing, combined with pipe size, length, flow pressure and velocity.

First step is to calculate the number of fixture units on single water line, cold and hot separately, following the table below:

Fixture	FIXTURE UNIT WEIGHT			
	Public cold water line	Private cold water line	Public hot water line	Private hot water line
Water closet (valve)	10	6	-	-
Water closet (tank)	5	3	-	-
Urinal (flush valve)	10	-	-	-
Wall urinal (valve)	5	-	-	-
Wall urinal (tank)	3	-	-	-
Lavatory	1	1	1	1
Bathtub	2	1	3	2
Shower head	2	1	2	2
Bathroom group	-	8	-	3
Service sink	3	-	3	-
Laundry (private)	-	3	-	3

Example of calculation of 'fixture units':

Presence of 5 water closet with flush valve and 5 lavatories in a public single water line:

$5 (n \text{ of WC}) \times 10 (\text{fixture unit}) + 5 (n \text{ of lavatories}) \times 1 (\text{fixture unit}) = 50 + 5 = \mathbf{55 \text{ fixture unit weight for the line.}}$

Stopshock water hammer absorber is a PDI C class valve: a single valve can be used in water line (hot or cold) with following characteristics:

- Up to 60 fixture unit weight
- Maximum branch length of 10mt (30ft)

A branch exceeding 10mt will require the installation of one or more (depending from the length) additional Stopshock water hammer absorber.

A branch with total fixture unit weight exceeding 60 will require one or more (depending from the fixture units weight value) additional Stopshock water hammer absorber.

Stopshock water hammer absorber can be used following the previous indication, with pipelines up to 1"1/4 (DN32); for water lines 1"1/2 and 2" double the quantity of Stopshock water hammer absorber.

Stopshock water hammer absorber don't need adjustment or service; can be installed in any position (vertical, horizontal).

Any further request or information, please contact us:

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