	WaStop	Rubber Inline Check Valve
Material Valve Body	Stainless steel/marine grade (-304/-316). Depending on application.	Elastomer and fabric.
Inner Diameter	285mm	203mm (29% reduction in diameter)
Weight Valve DN300/NPS12"	9 kg /20 lbs	17kg /38 lbs
Installation	Remove debris, insert valve in to pipe, and bolt mounting tabs into existing structure.	-Check existing pipe for rough or damaged areas. The inside surface should be uniform and smooth. Gouges or cracks in the pipe allow water to pass and should be filled prior to installation. Measure the I.D of the pipe, then clean and dry the exterior of the valve prior to applying adhesive rubber strips to build up the checkmate to actual pipe I.D. Lubricate the valve and push the valve into the pipe. [1]
Orientation of the valve	'This side up' should be up in horizontal applications otherwise same valve can be installed at all angles between horizontal to vertical, inlet or outlet.	Make sure the valve is not slanted at an angle with the bill pointing upwards or downwards. The checkmate must be installed horizontally. The valve centerline should be parallel to the pipe centerline.
Reduction of existing pipe diameter. [2]	12%	26%
Flow properties	Pulsating self-cleaning flow due to a difference in opening and closing pressure.	Trickles down.
Head Loss Valve DN300/NPS12" at 150 *l/s* /2400*GPM* [3]	3.3 ftH_2O / $1mH_2O$	$9ftH_2O$ / 2.75 mH_2O
Flow area	DN300 = 615.8 cm^2	DN300 = 323.7cm^2 (47,5% reduction in discharge surface)

[1] Competitors installation manual retrieved from their website *2016-11-09*

[2] WaStop & Rubber Inline Check Valve DN300/NPS12'' measurements performed by Utah Water Research Laboratory.

[3] Independent tests performed at Utah Water Research Laboratory.

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