



Thread to BS 21

Use:

For water to max. 90°C

Tests:

Hydraulic test to BS EN 12266
Body: 1.5 x PN

Marking:

Body: ICV logo, DN and PN.

Materials

Union	Brass H62 (DN15-20)
	Stainless steel (DN25-50)
Spring	Stainless steel AISI 304
Body	Stainless steel AISI 316
Chamber	Natural rubber



Sizing:

$$q = 4 \times 10^{-3} \times \frac{\lambda}{(\lambda - 1)} \times Q(0.0164L - t) \times \eta$$

q: The required volume of the air chamber for absorbing the shock, L

Q: Quantity of flow, L/min

λ : The ratio between the Maximum pressure of shock wave and the flow pressure

$\lambda = P_m / P = 1.5$ (in the absence of exceptional circumstances)

L: flow line, m

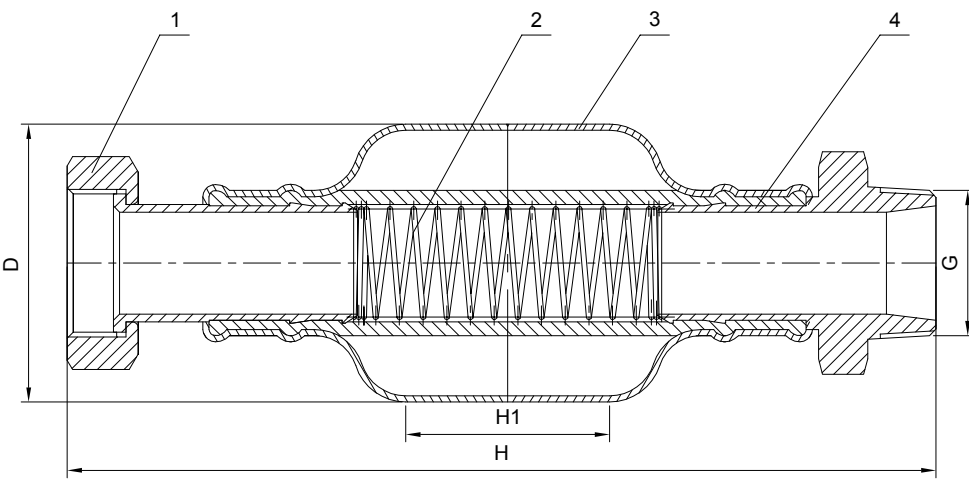
t: The closure time of the valve or the pump normally is 0.2 seconds

η : correction coefficient 0.5

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- Component list
1. Union
2. Spring

3. Body
4. Chamber



Ref.no.	DN	H mm	H1 mm	D mm	G in	Pre-charge volume cm ³	Weight Kgs
9240200151	15	170	65	53	1/2	127.5	2.5
9240200201	20	170	65	63	3/4	183	2.8
9240200251	25	170	65	63	1	225	3.2
9240200321	32	244	100	100	1-1/4	596	3.4
9240200401	40	250	100	100	1-1/2	635	4
9240200501	50	250	100	100	2	785	5

