



Piston type water hammer absorber 924/01 PN16/25

Flanges and drilling to ISO 7005-1

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

Pressure gauge	Stainless steel AISI 304
Gas charge valve	Brass H62
Body	Stainless steel AISI 316
Piston	Stainless steel/Brass H62
O-ring	FKM
Flange	Stainless steel AISI 316
Retaining ring	Stainless steel AISI 316



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



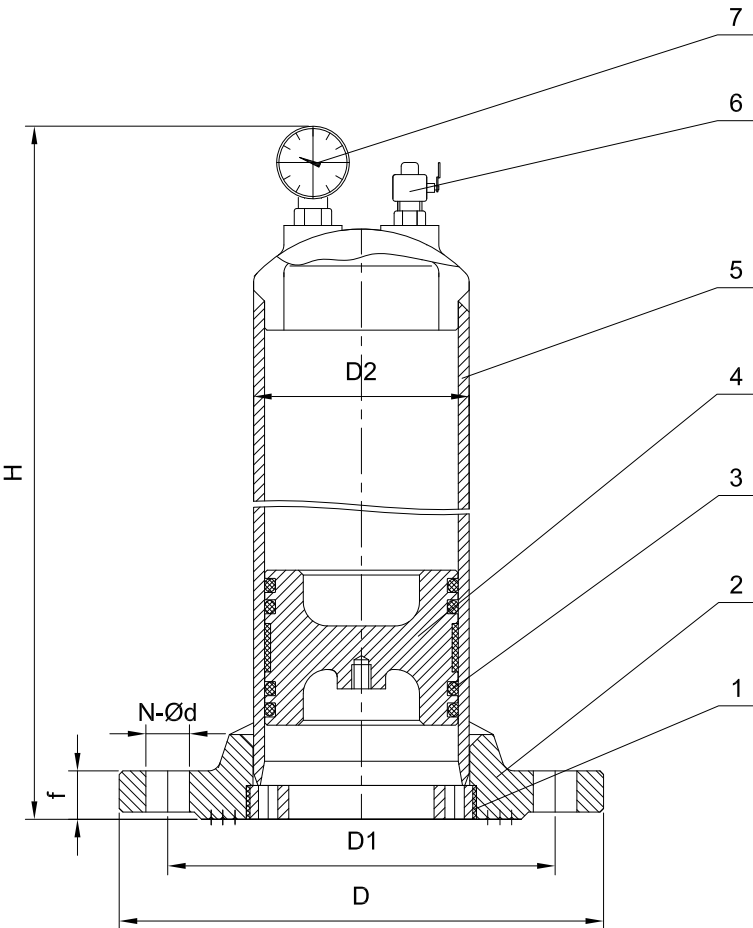
The designs, materials and specifications shown are subject to change without notice due to our continuing programme of product development.

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DS924011808

Flanges and drillings to ISO 7005-1

Component list		
1. Retaining ring	4. Piston	7. Pressure gauge
2. Fanlge	5. Body	
3. O-ring	6. Gas charge valve	



		H		D		D1		D2		N-Ød		Pre-charge pressure	Pre-charge volume	f		Weight
Ref.no.	DN	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	MPa	cm³	mm	mm	Kgs
			PN16	PN25	PN16	PN25				PN16	PN25			PN16	PN25	
924010065X	65	468	185		145		76	8-Ø18	8-Ø18	0.45	1160	20	22	12.5		
924010080X	80	720	200		160		89	8-Ø18	8-Ø18	0.5	3014	20	24	22		
924010100X	100	757	220	235	180	190	112	8-Ø18	8-Ø22	0.5	4940	22	26	30		
924010125X	125	769	250	270	210	220	135	8-Ø18	8-Ø26	0.5	8090	22	28	41		
924010150X	150	832	285	300	240	250	162	8-Ø22	8-Ø26	0.5	14064	24	30	69		
924010200X	200	880	340	360	295	310	219	12-Ø22	12-Ø26	0.4	25120	26	32	93		
924010250X	250	968	405	425	355	370	273	12-Ø26	12-Ø30	0.4	39250	28	35	120		
924010300X	300	997	460	485	410	430	325	12-Ø26	16-Ø30	0.4	56520	32	38	150		
924010350X	350	1000	520	555	490	470	365	16-Ø26	16-Ø33	0.4	76930	35	42	180		
924010400X	400	1016	580	620	550	525	426	16-Ø30	16-Ø36	0.4	100480	38	46	210		

X:1=PN16; 3=PN25.

