

TYPE DRVZ / HC42T

Silent (Non-Slam) Check Valve

Damping type · Flanged · **DN 50 – 500** · **PN 10 / 16 / 25** · Water and oil service



1 DESIGN FEATURES & APPLICATION

The DRVZ / HC42T silent check valve uses a streamlined internal flow path with an integral flow guide body, and is fitted principally at pump discharge or at any other point in a pipeline where reverse flow has to be prevented. Its spring-loaded disc closes progressively along the axis of flow rather than slamming across it, giving a silent close that suppresses the water-hammer shock and pump reversal caused by returning liquid. This protects the pump and the pipeline, lowers noise and extends service life, making it a direct upgrade replacement for traditional swing check valves.

Streamlined flow path & guide body

Silent, non-slam closing

Suppresses water hammer

2 TECHNICAL SPECIFICATION

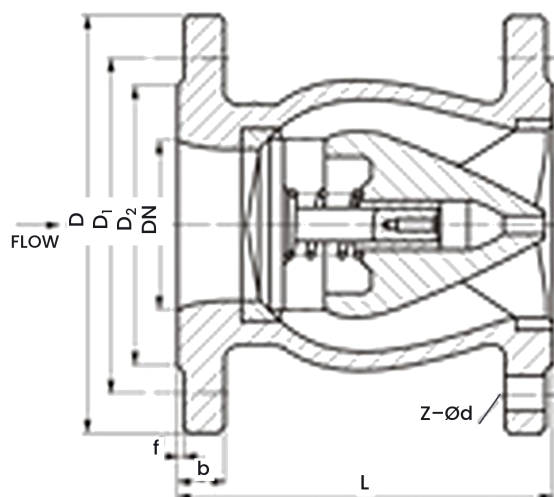
Nominal diameter DN (mm)	50 – 500		
Nominal pressure PN (MPa)	1.0	1.6	2.5
Test pressure – shell strength (MPa)	1.5	2.4	3.75
Test pressure – seat tightness (MPa)	1.1	1.76	2.75
Working temperature (°C)	< 200		
Applicable medium	Water, oil and similar media		

3 MATERIALS OF MAIN PARTS

Part	Material
Valve body & flow guide body	Grey cast iron, ductile iron, cast steel, stainless steel, brass
Seat, bearing bush, disc, shaft	Bronze or Cr stainless steel
Spring	Stainless steel

4 CONSTRUCTION

SECTIONAL ARRANGEMENT



5 MAIN EXTERNAL & CONNECTING DIMENSIONS

DN (mm)	L	PN 10						PN 16						PN 25					
		b	f	D ₂	D	D ₁	Z-Ø d	b	f	D ₂	D	D ₁	Z-Ø d	b	f	D ₂	D	D ₁	Z-Ø d
50	100	20	3	102	165	125	4-18	20	3	102	165	125	4-18	20	3	99	165	125	4-18
65	120	20	3	122	185	145	4-18	20	3	122	185	145	4-18	22	3	118	185	145	8-18
80	140	22	3	133	200	160	8-18	22	3	133	200	160	8-18	24	3	132	200	160	8-18
100	160	24	3	158	220	180	8-18	24	3	158	220	180	8-18	24	3	156	235	190	8-22
125	180	26	3	184	250	210	8-18	26	3	184	250	210	8-18	26	3	184	270	220	8-26
150	200	26	3	212	285	240	8-22	26	3	212	285	240	8-22	28	3	211	300	250	8-26
200	220	28	3	268	340	295	8-22	30	3	268	340	295	12-22	30	3	274	360	310	12-26
250	240	28	3	320	395	350	12-22	32	3	320	405	355	12-26	32	3	330	425	370	12-30
300	280	28	4	370/375	445	400	12-22	32	4	370/375	460	410	12-26	34	4	389	485	430	16-30
350	320	30	4	430/435	505	460	16-22	36	4	430/435	520	470	16-26	38	4	448	555	490	16-33
400	360	32	4	482/485	565	515	16-22	38	4	482/485	580	525	16-30	40	4	503	620	550	16-36
500	440	34	4	585/608	670	620	20-26	40	4	585/608	715	650	20-33	44	4	609	730	660	20-36

Key — all dimensions in millimetres. **L** face-to-face length · **D** flange outside diameter · **D₁** bolt circle diameter (PCD) · **D₂** raised face diameter · **DN** nominal bore · **b** flange thickness · **f** raised face height · **Z-Ø d** number × diameter of bolt holes. Where two D₂ values are shown, confirm the required raised-face option at time of order.