

Watts Silent Hydrostop



The Watts Silent Hydrostop finds his application in water distribution systems to prevent backflow of polluted water. Beside this the Watts Silent Hydrostop can also be used as a process check valve in industrial applications.

Due to the construction without moving parts, the check valve operates without noise and prevents from slams and shocks.

 **WATTS**[®]
INDUSTRIES

A Division of Watts Water Technologies Inc.



Watts Silent Hydrostop

Non-return valve with diaphragm

Product characteristics

- folding diaphragm closes fast and silently at reversing flow direction
- no moving parts
- any mounting position possible
- flanged connection according to EN 1092-2
- face-to-face dimension according to EN 558-1, basisserie 48 (DIN 3202, F6)
- diaphragm dampening watershock

Material and corrosion protection

- two-part body as well as flow guide of cast iron with lamellar graphite GG-25 (DN50 up to DN150 flowguide made of Poly-Propylen)
- folding diaphragm made from NBR or EPDM according to KTW-recommendation
- inside and outside epoxy coating (EP) (up to 60 °C epoxy coated, up to 90 °C rilsan coated)

Design / Range of application

Standard design:

- oil and water up to 60 °C (122 °F) - diaphragm made from NBR

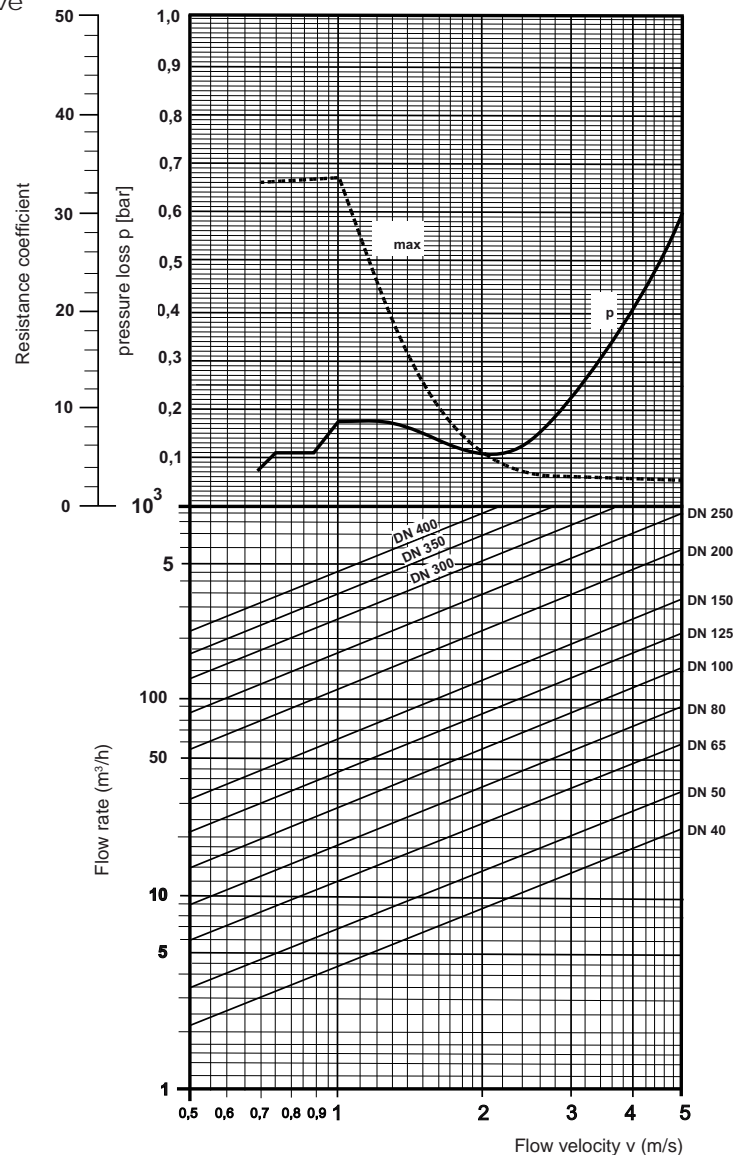
Special design:

- potable water from > 60 °C to < 90 °C (140 °F to 194 °F) / agressive water - diaphragm made from EPDM
- fitted with two connections for testing possibilities or bypass

Advantages

- silent operation
- dampening watershock
- no moving parts
- quick reaction
- suitable for all installation orientation

Pressure loss curve



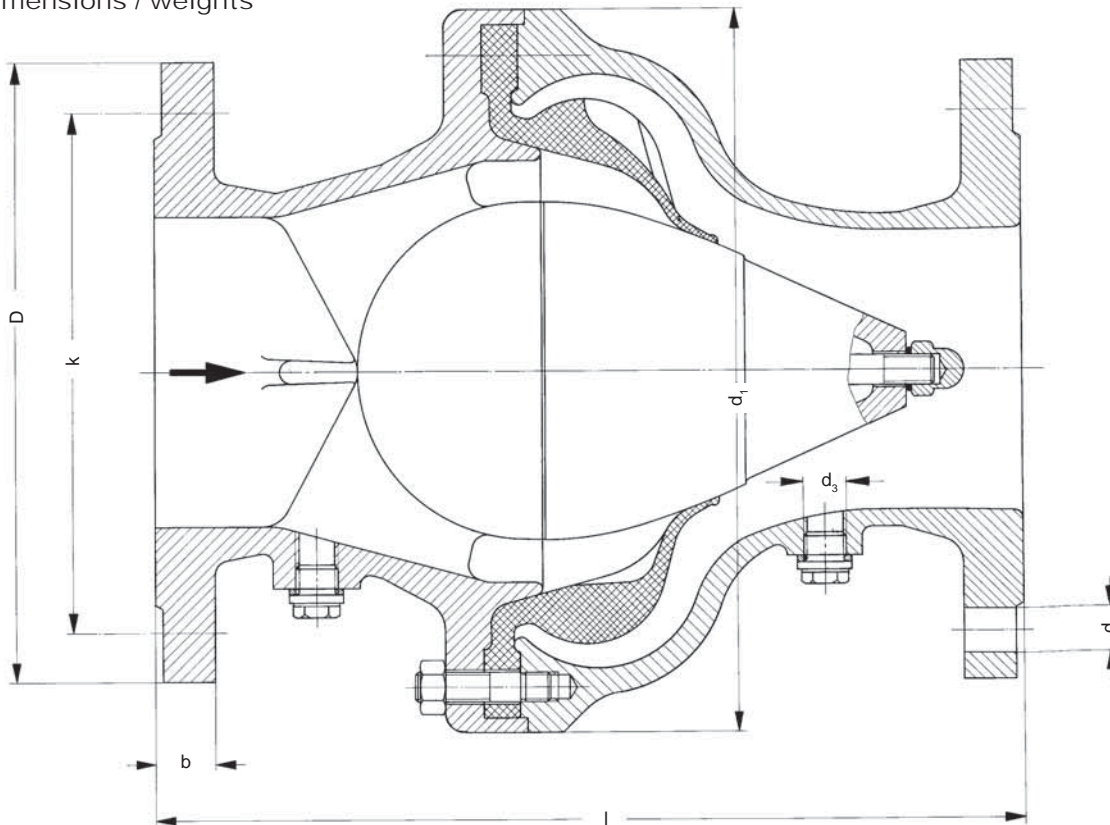
Technical specifications

Diam. nominal	DN 40 up to DN 400
Working pressure	PN 10 / PN 16
Max. Temp.	90 °C (EPDM) 60 °C (NBR)

Material specifications

Body	Cast Iron GG25
Diaphragm	EPDM / NBR
Coating	Epoxy coated (0-60 °C)/ Rilsan (0 - 90 °C)

Dimensions / weights



Nominal diameter	DN	40	50	65	80	100	125	150	200	250	300	350	400
Construction dimensions	l	180	200	240	260	300	350	400	500	600	700	800	900
	d1	150	175	220	220	292	292	292	374	446	550	645	720
	d3 (Thread)	3/8	3/8	3/8	3/8	3/8	3/8	3/8	3/8	1/2	1/2	3/4	3/4
Flange dimensions in acc. with EN 1092-2	PN 10												
	D	150	165	185	200	220	250	285	340	400	455	505	565
	k	110	125	145	160	180	210	240	295	350	400	460	515
	Holes	4	4	4	8	8	8	8	8	12	12	16	16
	d2	18	18	18	18	18	18	22	22	22	22	22	26
	b	18	20	20	22	24	26	26	26	28	28	30	32
	PN 16												
	D	150	165	185	200	220	250	285	340	400	455	-	-
	k	110	125	145	160	180	210	240	295	355	410	-	-
	Holes	4	4	4	8	8	8	8	12	12	12	-	-
	d2	18	18	18	18	18	18	22	22	26	26	-	-
	b	18	20	20	22	24	26	26	30	32	32	-	-
Net. weight	kg ca.	9	13	18	22	34	42	46	84	127	208	280	390
Space req.	m3 ca.	0.005	0.007	0.010	0.014	0.016	0.035	0.040	0.080	0.130	0.235	0.365	0.510

Field of application

DN mm	PN bar	Permitted operating temperature 1) for water	
		Diaphragm NBR °C	Diaphragm EPDM (potable water) °C
40 - 300	16	60	90
350 - 400	10	60	90

1) In case of corrosive media, e.g. aggressive water, details of the composition and temperature are required. Watts Silent Hydrostop non-return valves are not suitable for aromatic hydrocarbons and their compounds or gas-like media. The diaphragms are resistant to copper ions in the media.

Product range Watts Industries

- System Disconnectors
- Backflow Protection Devices
- Check Valves
- Safety Units
- Safety Relief Valves
- Pressure Reducing Valves
- Automatic Control Valves
- Butterfly Valves
- Shut-Off Valves
- Measuring Gauges
- Temperature Control
- Expansion Vessels
- Process Switches
- Fuel Products
- Gas Products
- Electronic Controls
- Installation Protection Products
- Radiator Valves
- System Products
- Manifolds and Fittings



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