

Wafer disc check valve, article 640-GS

Diameter 5" (DN 125) up to 12" (DN 300)

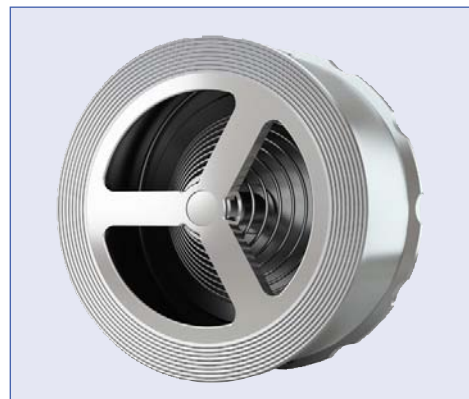
Wafer-type check valves for the prevention of media backflow in all production process, whether in the liquid, gaseous or vaporous state. The valve disk spindle guided in the spring cross and the safety spring ensure safe closing of the valve disk and high tightness. Optionally metal sealing or soft sealing with O-ring in valve plate (EPDM / NBR / FPM / PTFE).

A special body contour with integrated centering collar allows installation between flanges of different pressure ratings. The embossed directional arrow on the body indicates the flow direction.

- ☞ **Installation between flanges** acc. to DIN EN 1092-1 Form B1, PN 6 - 40 ASME B16.5, class 150 - 300 and JIS 10K flanges (use suitable flange askets for this purpose !)
- ☞ **Face to face** according to DIN EN 558-1, series 49 (DIN 3202-K4),
- ☞ **Mounting position** any
- ☞ **Standard spring** (stainless steel 316Ti) Temperature limit +300° C

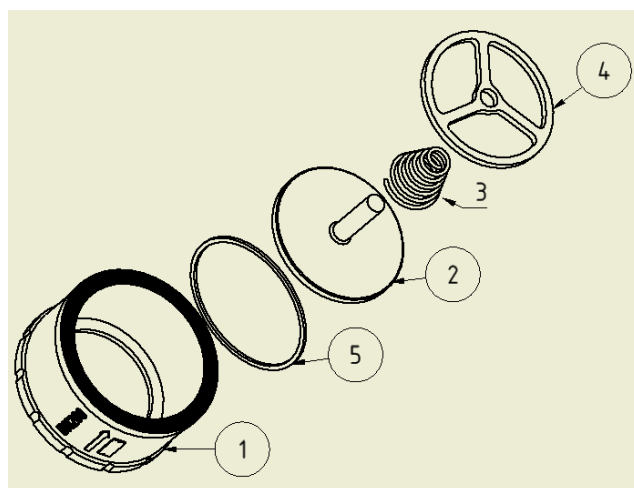
Optional: oil and grease free cleaned for oxygen service, special springs up to max. 1000 mbar, version without spring (installation vertical; flow from bottom to top)

ATTENTION: Don't use it as safety or vacuum valve!



	Ambient	-10° C ... +80° C
	Temperature range for sealing	
	metal to metal	-10° C ... +300° C
	NBR	-10° C ... +90° C
	EPDM	-10° C ... +120° C
	FPM (Viton)	-10° C ... +150° C
	PTFE	-10° C ... +200° C

- Special springs for low or higher opening pressures
- Final test according to EN 12266-1 P10, P11 and P12
- Seals optionally made of NBR / EPDM / FPM / PTFE soft seated 100% tight / metal seated leakage rate "D" acc. EN 12266-1
- Seals with KTW and FDA approval
- Modified soft seals for higher temperatures
- Oil and grease free
- Temperatures above 300° C pressure spring made of Hastelloy C4

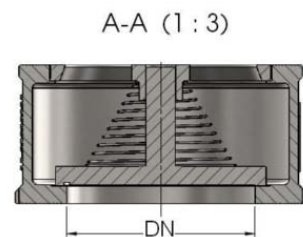
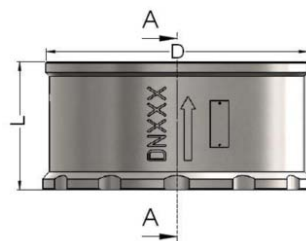
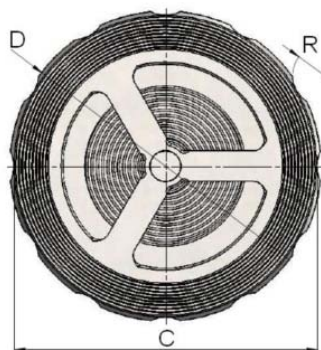
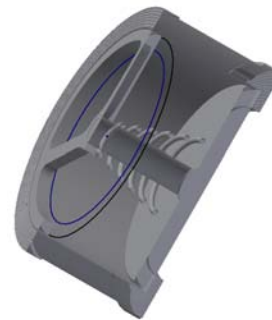


Pos.	Description	Material
1	Body	Steel A216 WCB zinc plated
2	Disc	Stainless steel ASTM A 351 CF8M
3	Spring	Stainless steel ASTM A 312 316Ti
4	Spring cross	Stainless steel ASTM A 351 CF8M
5	Sealing	NBR / EPDM / FKM / PTFE

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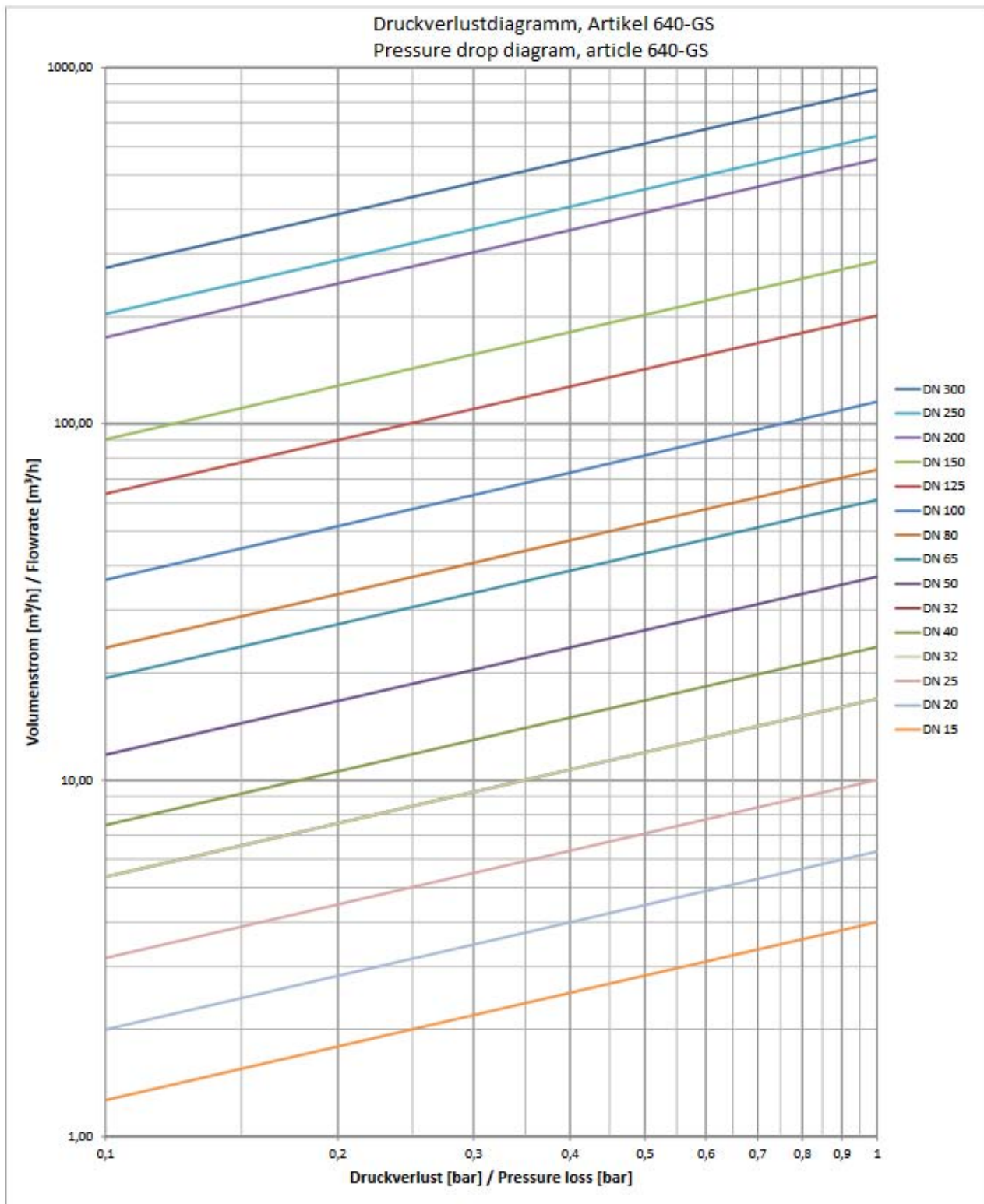
Sealing material	Temperature max.	Leakage rate
metallisch	400° C	D
NBR	90° C	A
EPDM	120° C	A
FKM	200° C	A
PTFE	200° C	A



Diameter (DN)	Article-No.	L (mm)	opening pressure with flow direction (mbar)			KV-value (m³/h)	Weight (kg)
			↔	↑	↓		
DN 125	235.1461.4.28	90	~ 30	~ 46	~ 14	201	8,00
DN 150	235.1461.4.29	106	~ 30	~ 47	~ 13	286	12,00
DN 200	235.1461.4.31	140	~ 30	~ 51	~ 9	553	22,00
DN 250	235.1461.4.33	145	~ 40	~ 64	~ 16	643	35,00
DN 300	235.1461.4.34	160	~ 40	~ 68	~ 12	867	45,00

Additional letter after article no. for soft seated and special designs				
	O-Ring EPDM -20°C up to +120°C	O-Ring NBR -20°C up to +90°C	O-Ring FKM -0°C up to +200°C	O-Ring PTFE -20°C up to +200°C
Add. for article no.:	-E	-N	-V	-P

D (mm) Pressure rating PN 10/16	C (mm) Pressure rating PN 10/16	R (mm) Pressure rating PN 10/16	D (mm) Pressure rating ANSI 150 / JIS10K	C (mm) Pressure rating PN 25	D (mm) Pressure rating PN 40	R (mm) Pressure rating PN 25
194,0	194,0		194,0	194,0	194,0	
220,0	220,0		220,0	220,0	220,0	
280,0	275,0	11,0	280,0	294,0	294,0	30,0
340,0	331,0	11,0	340,0	356,0	356,0	33,0
386,0	386,0	11,0	404,0	421,0	421,0	33,0



Flow measurements according to DIN EN 60534-2-3.

The diagram values apply to water at a temperature of 20°C.
For calculations of other fluids and temperatures please contact us.