

FIG.275



CHECK VALVE zCHE



Body material	Nominal pressure	Nominal diameter	Max. temperature
H Brass	C 16 bar	DN 15-100	200°C
I Stainless steel	E 40 bar	DN 15-300	300°C

FEATURES

- compact settlement
- environment-friendly
- no maintenance
- tests acc. to EN 12266-1 class D
- face-to-face dimension according to EN 558 series 49 (DN15 - DN100)

APPLICATION *

*not all of the applications are suitable for all of the executions

industries



INDUSTRY



SHIPBUILDING
INDUSTRY



HEATING



POWER
ENGINEERING



REFRIGERATION
AND AIR
CONDITIONING

media



GLYCOL



INDUSTRIAL
WATER



DIATHERMIC OIL



STEAM



COMPRESSED AIR



NEUTRAL
FLUIDS

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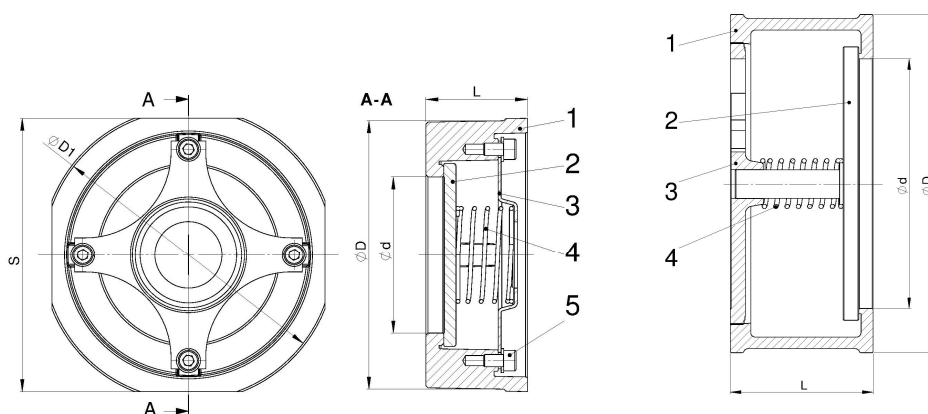
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FIG.275

MATERIALS, DIMENSIONS

DN 15-100

DN 125-300



	Body material	H	I	
	Type	50	51	
			DN 15-100	DN 125-300
1	Body	CuZn39Pb2	GX5CrNiMo19-11-2	GX5CrNiMo19-11-2
2	Disc	X6CrNiMoTi17-12-2	GX5CrNiMo19-11-2	GX5CrNiMo19-11-2
3	Centring ring	X5CrNi18-10	X3CrNiMo17-13-3	GX5CrNiMo19-11-2
4	Spring	X6CrNiMoTi17-12-2	X3CrNiMo17-13-3	X3CrNiMo17-13-3
5	Bolt	.....	A4-70	.....
Max. temperature		200°C	300°C	300°C

Body material H

DN	mm	15	20	25	32	40	50	65	80	100
	inch	1/2	3/4	1	1 1/4	1 1/2	2	2 1/2	3	4
d (mm)		15	20	25	31	39	47	62	74	89
D (mm)		40	47	56	72	82	95	115	132	152
L (mm)		16	19	22	28	32	40	46	50	60
Weight (kg)		0,10	0,13	0,21	0,48	0,63	1	1,5	2	3,2
Kvs (m³/h)		3,5	7,2	10,3	16,6	21,8	33,2	55,5	72,7	105,5
Opening pressure according to flow direction (mbar)	→	7,5	7,5	7,5	8,5	9,0	9,5	10,0	10,5	11,5
	↑	10,0	10,0	10,0	12,0	13,0	14,0	15,0	16,0	18,0
	↓	5,0	5,0	5,0	5,0	5,0	5,0	5,0	5,0	5,0

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FIG.275

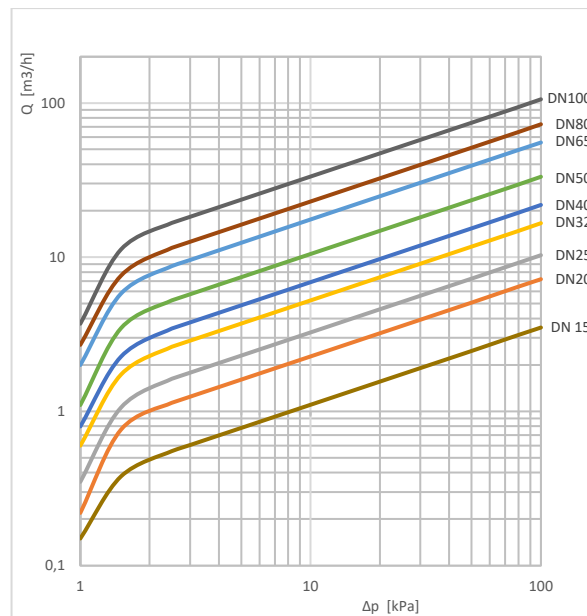
Body material I

DN	mm	15	20	25	32	40	50	65	80	100	125	150	200	250	300
	inch	1/2	3/4	1	1 1/4	1 1/2	2	2 1/2	3	4	5	6	8	10	12
d (mm)		15	19	25	30	38	47	62	77	95	122	148	200	250	300
D (mm)		43,5	53,5	63,5	76	86	96	116,5	123	152,5	190,5	219	282	340	400
L (mm)		16	19	22	28	31,5	40	46	50	60	90	106	140	145	160
S (mm)		45	55,5	65	78,5	88,5	98,5	119	134,5	154,5	.....	.....	.....	.....	.....
D1 (mm)		53	63	73	84	94	107	126	144,5	164	.....	.....	.....	.....	.....
Weight (kg)		0,10	0,16	0,28	0,52	0,70	1,10	1,58	1,78	3,30	8	12	22	35	45
K _{vs} (m ³ /h)		4,4	6,8	10,8	17,0	26,0	43,0	60,0	80,0	113	183	258	410	698	732
Opening pressure according to flow direction (mbar)	→	22,5	22,5	22,5	23,5	24,5	24,5	25,0	25,5	26,5	22,0	22,0	22,0	22,0	22,0
	↑	25,0	25,0	25,0	27,0	28,0	29,0	30,0	31,0	33,0	30,0	30,0	30,0	30,0	30,0
	↓	20,0	20,0	20,0	20,0	20,0	20,0	20,0	20,0	20,0	10,0	10,0	10,0	10,0	10,0

PRESSURE-TEMPERATURE RATINGS

Acc. EN 1092-3	PN		-10°C÷120°C	150°C	200°C		
CuZn39Pb2	16	bar	16	16	13,5		
Acc. EN 1092-1			-40°C÷100°C	150°C	200°C	250°C	300°C
G-X5CrNiMo19-11-2	40	bar	40	36,3	33,7	31,8	29,7

HYDRAULIC CHARACTERISTICS 275 H DN 15-100



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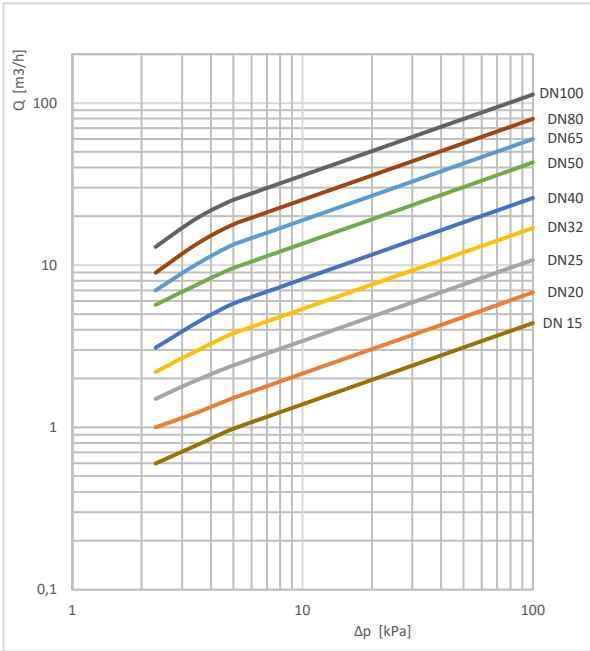
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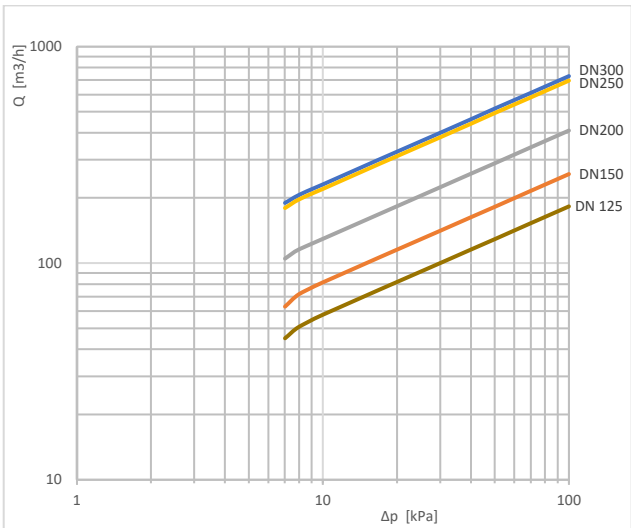
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FIG.275

HYDRAULIC CHARACTERISTICS 275 I DN 15-100



HYDRAULIC CHARACTERISTICS 275 I DN 125-300



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FIG.275

TYPE

Figure	Body material	Nominal diameter	Nominal pressure	Type
275	H Brass CuZn36Pb2	15-100 mm	C 16 bar	50 disc and spring - stainless steel, seat ring- brass
	I Stainless steel GX5CrNiMo19-11-2	15-300 mm	E 40 bar	51 disc, spring and seat ring- stainless steel, disc with spring

ORDERING

Figure	Body material	Nominal diameter	Nominal pressure	Type
275	H Brass CuZn36Pb2	15-100 mm	C 16 bar	50 disc and spring - stainless steel, seat ring- brass

Order example acc. index

275 H 050 C 50

275 H 050 C 50

Check valve, ends wafer type, form straight
Brass CuZn36Pb2
Nominal diameter (mm)
Nominal pressure PN 16
Disc and spring - stainless steel, seat ring- brass

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