

FIG.236



**BELLOW CONTROL VALVE WITH PNEUMATIC
ACTUATOR AND POSITIONER zCON**



Body material	Nominal pressure	Nominal diameter	Max. temperature
A Grey cast iron	C 16 bar	DN 15-150	300°C
C Nodular cast iron	C 16 bar D 25 bar	DN 15-150	350°C
F Cast steel	E 40 bar	DN 15-150	350°C
I Cast stainless steel	E 40 bar	DN 15-150	400°C



correspond to the pressure equipment directive 2014/68/UE marking CE for DN≥32

FEATURES

- high tightness (leakproofness class - IV acc. EN - 60534-4)
- environment friendly
- tests acc. EN - 12266 - 1
- flanges drilled according to EN 1092-2 for body material A, C
- flanges drilled according to EN 1092-1 for body material F, I
- face of face dimensions: series 1 acc. EN 558
- equal percentage flow characteristic
- maximum actuator supply pressure: 4.0 bar

APPLICATION *

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

industries



INDUSTRY



SHIPBUILDING
INDUSTRY



HEATING



REFRIGERATION
AND AIR
CONDITIONING

media



GLYCOL



INDUSTRIAL
WATER



DIATHERMIC OIL



STEAM



COMPRESSED
AIR



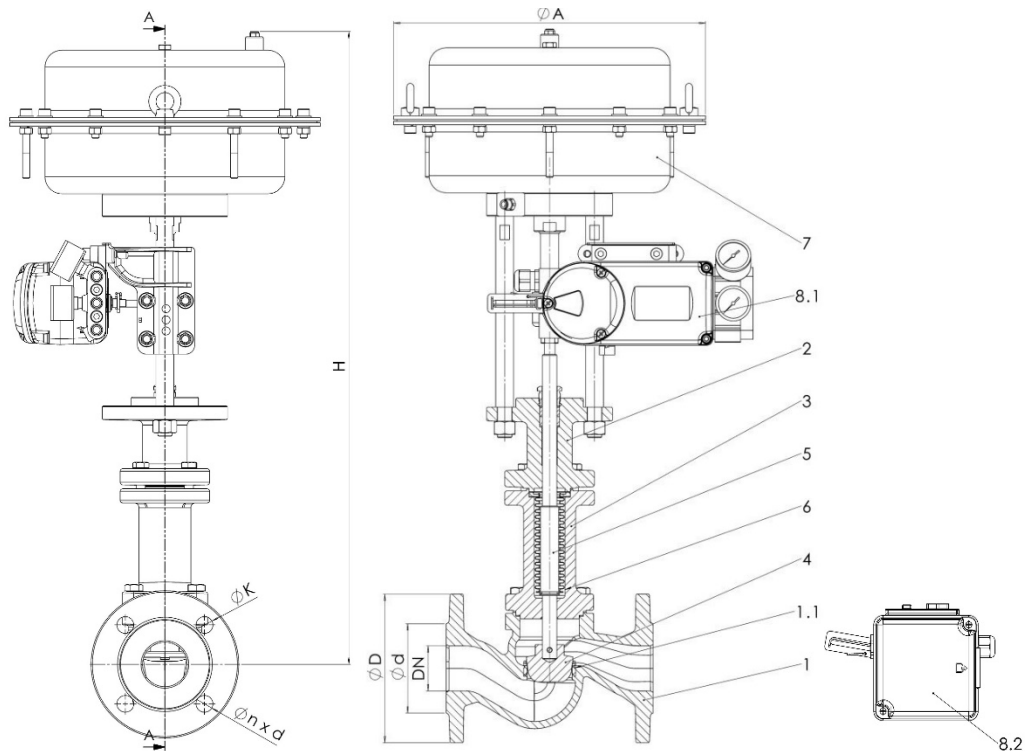
NEUTRAL
FLUIDS

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FIG.236

MATERIALS, DIMENSIONS



	Body material	A	C	F	I
	Type	71			
1	Body	EN – GJL-250 5.1301 (ex. JL1040)	EN – GJS-400 – 18-LT 5.3103 (ex.JS1025)	GP240GH+N 1.0619	G-X5CrNiMo19-11-2 1.4408
1.1	Seat ring	X20Cr13 1.4021	X20Cr13 1.4021	DN15-50 X20Cr13 1.4021 DN65-150 Stellite	G 19 9 LSi
2	Top bonnet	EN – GJS-400 – 18-LT 5.3103 (ex.JS1025)		P250GH	X5CrNi18-10 1.4301
3	Bottom bonnet	EN – GJS-400 – 18-LT 5.3103 (ex.JS1025)		P250GH	X5CrNi18-10 1.4301
4	Disc	X20Cr13 1.4021			X6CrNiMoTi17-12-2 1.4571
5	Stem	X20Cr13 1.4021			X6CrNiMoTi17-12-2 1.4571
6	Bellow	X6CrNiMoTi17-12-2			
7	Pneumatic actuator	SPO (normally open actuator) SPZ (normally closed actuator)			
8.1	Positioner	SRD998 – intelligent positioner			
8.2		SRI 986 – electro-pneumatic positioner			
Max. temperature		300°C	350°C	400°C	

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DN		15	20	25	32	40	50	65	80	100	125	150
L (mm)		130	150	160	180	200	230	290	310	350	400	480
PN16	D (mm)	95	105	115	140	150	165	185	200	220	250	285
	K (mm)	65	75	85	100	110	125	145	160	180	210	240
	nxd (mm)	4x14	4x14	4x14	4x19	4x19	4x19	4x19	8x19	8x19	8x19	8x23
PN25	D (mm)	95	105	115	140	150	165	185	200	235	270	300
	K (mm)	65	75	85	100	110	125	145	160	190	220	250
	nxd (mm)	4x14	4x14	4x14	4x19	4x19	4x19	8x19	8x19	8x23	8x28	8x28
PN40	D (mm)	95	105	115	140	150	165	185	200	235	270	300
	K (mm)	65	75	85	100	110	125	145	160	190	220	250
	nxd (mm)	4x14	4x14	4x14	4x18	4x18	4x18	8x18	8x18	8x22	8x26	8x26
H (SPO;SPZ 280)		615	615	620	630	650	656	710	708	744	810	832
H (SPO;SPZ 530)		-	-	-	-	-	707	760	758	795	861	883
H (SPO;SPZ 1000)		-	-	-	-	-	-	820	818	855	921	943

MAX. PERMISSIBLE CLOSING PRESSURES (SPO)

Actuator	Operating pressure (kPa)	Nominal diameter DN										
		15	20	25	32	40	50	65	80	100	125	150
		Max. permissible closing pressures (bar)										
SPO 280 (A=247)	140	21,5	16,8	11,7	7,9	5,8	3,6	-	-	-	-	-
	250	64,7	50,5	35,3	23,7	17,6	11	-	-	-	-	-
	400	125,8	98,2	68,7	46,1	34,2	21,5	-	-	-	-	-
SPO 530 (A=347)	140	-	-	-	-	-	4,9	2,9	2	1,3	-	-
	250	-	-	-	-	-	19	11,1	7,7	5,1	-	-
	400	-	-	-	-	-	38,7	22,7	15,7	10,5	-	-
SPO 1000 (A=491)	140	-	-	-	-	-	-	6,6	4,6	3	2	1,4
	250	-	-	-	-	-	-	22,5	15,6	10,4	6,9	4,9
	400	-	-	-	-	-	-	44	30,6	20,5	13,6	9,6

MAX. PERMISSIBLE CLOSING PRESSURES (SPZ)

Actuator	Operating pressure (kPa)	Nominal diameter DN										
		15	20	25	32	40	50	65	80	100	125	150
		Max. permissible closing pressures (bar)										
SPZ 280 (A=247)	230	25,0	16,0	9,0	3,0	-	-	-	-	-	-	-
SPZ 530 (A=347)	250	-	25,0	25,0	18,0	9,0	3,0	1,0	-	-	-	-
SPZ 1000 F1 (A=491)	310	-	-	-	-	25,0	14,0	7,0	4,0	1,0	-	-
SPZ 1000 F2 (A=491)	400	-	-	-	-	-	20,0	13,0	10,0	8,0	6,0	4,0

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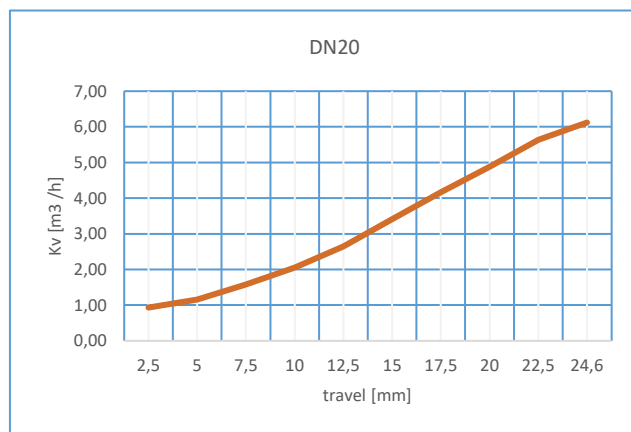
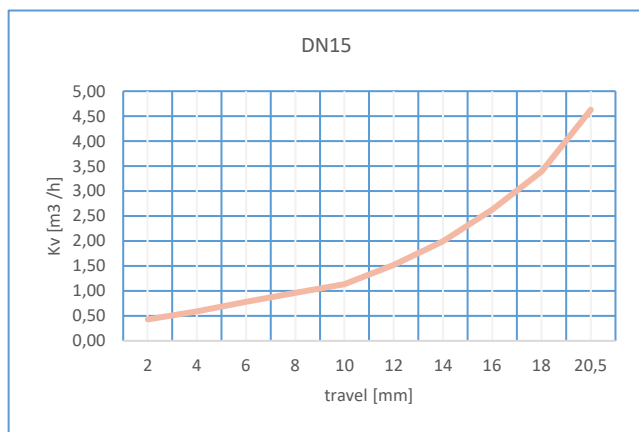
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FIG.236

PRESSURE-TEMPERATURE RATINGS

Acc. EN 1092-2	PN		-10 ÷120°C	150°C	200°C	250°C	300°C	350°C			
EN – GJL-250	16	bar	16	14,4	12,8	11,2	9,6	-			
EN – GJS-400 – 18-LT	16		16	15,5	14,7	13,9	12,8	11,2			
EN – GJS-400 – 18-LT	25		25	24,3	23	21,8	20	17,5			
Acc. EN 1092-1	PN		-40÷ -10°C	-10÷ 50°C	10÷100°C	150°C	200°C	250°C	300°C	350°C	400°C
GP240GH+N	40	bar	30	40	37,1	35,2	33,3	30,4	27,6	25,7	23,8
Acc. EN 1092-1	PN		-	-60÷ -10°C	-10÷100°C	150°C	200°C	250°C	300°C	350°C	400°C
GX5CrNiMo19-11-2	40	bar	-	40	40	36,3	33,7	31,8	29,7	28,5	27,4

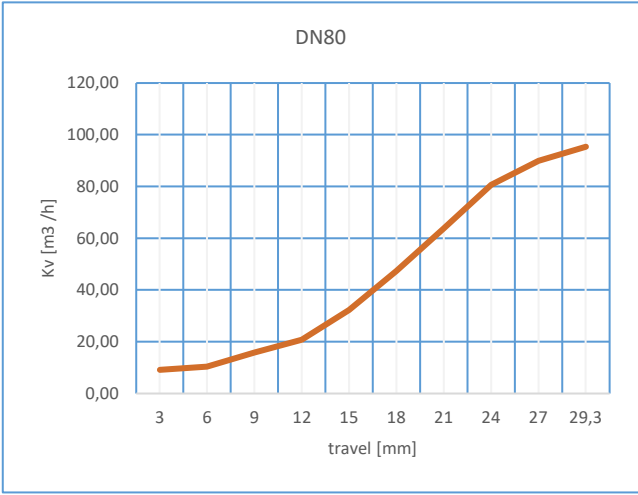
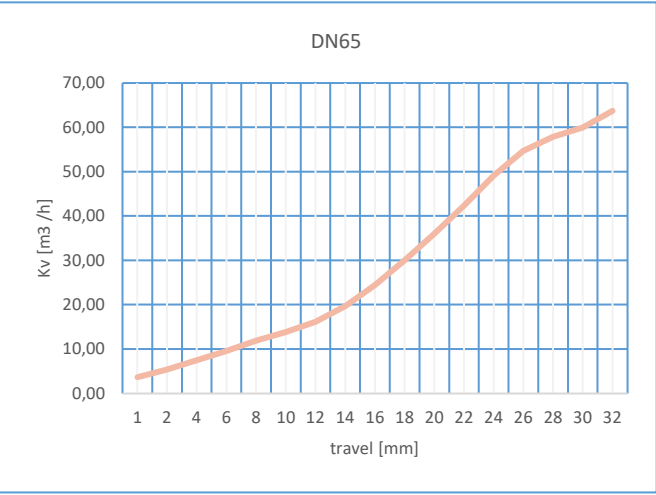
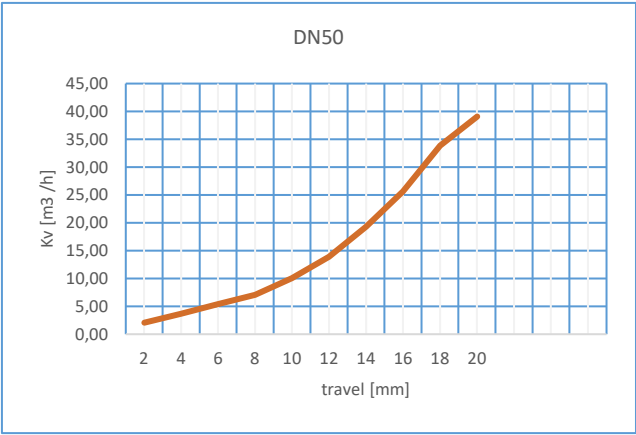
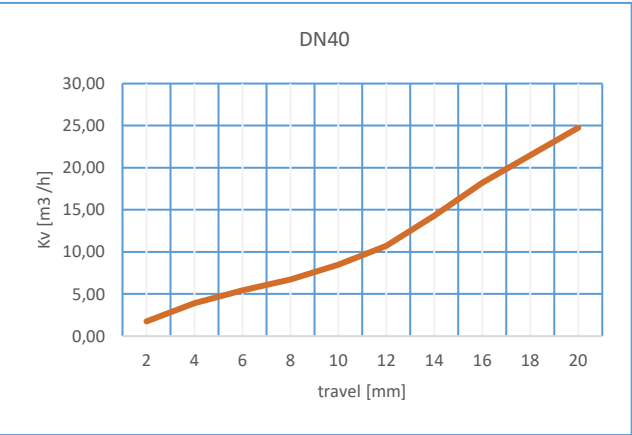
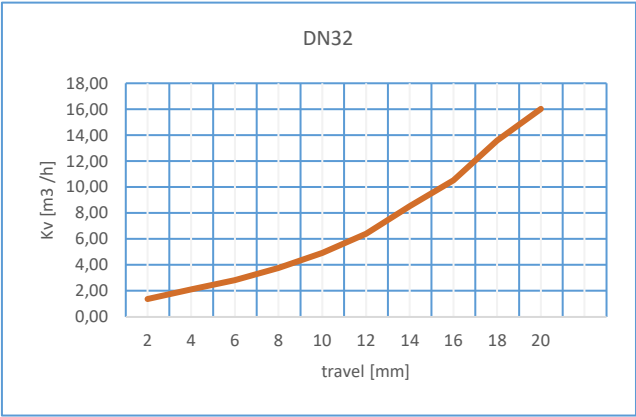
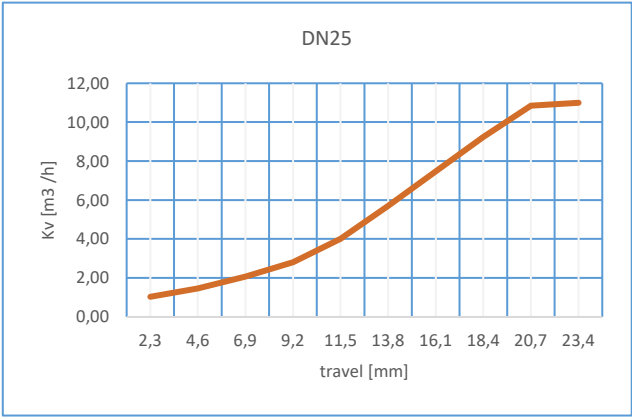
HYDRAULIC CHARACTERISTICS PN16, PN25



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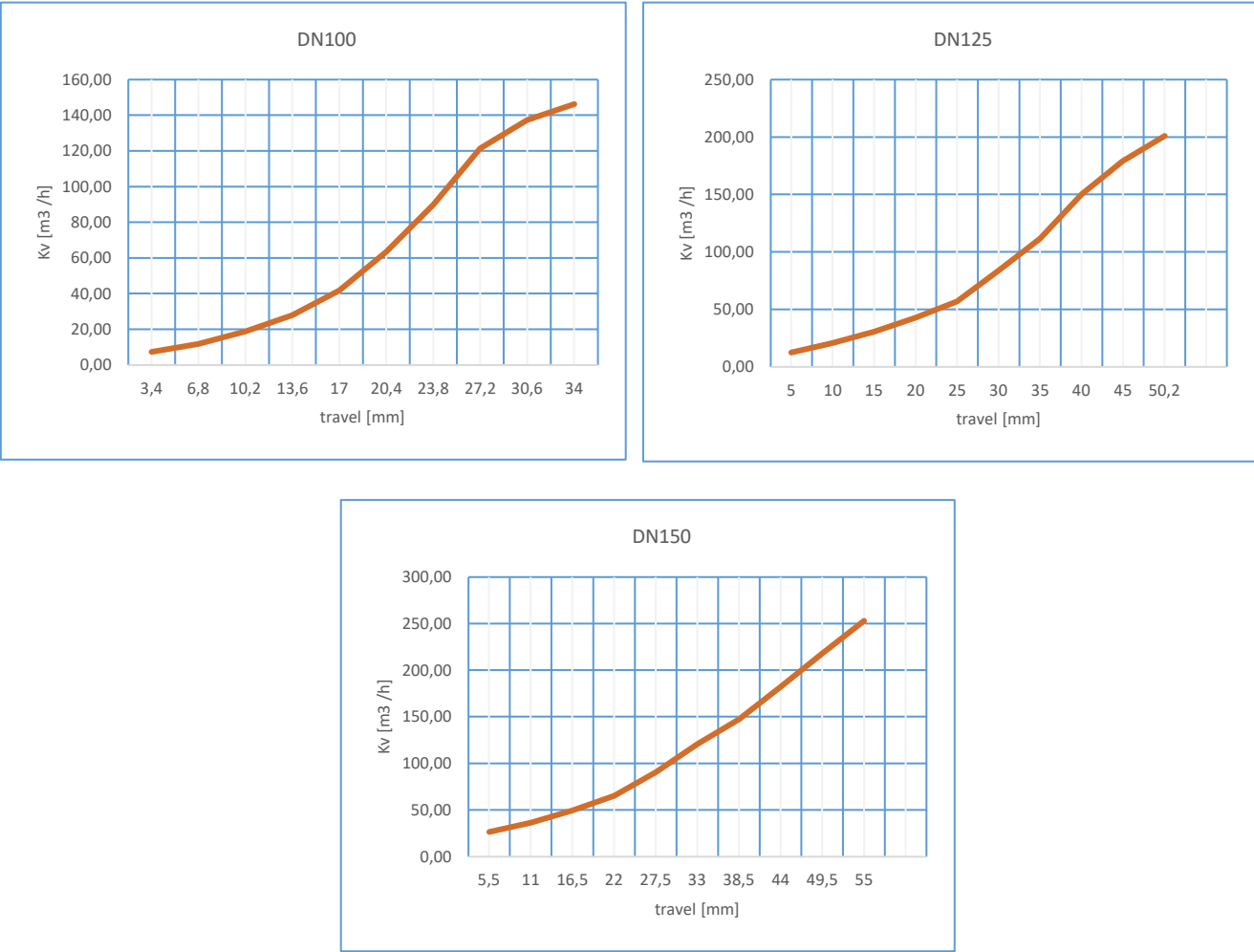
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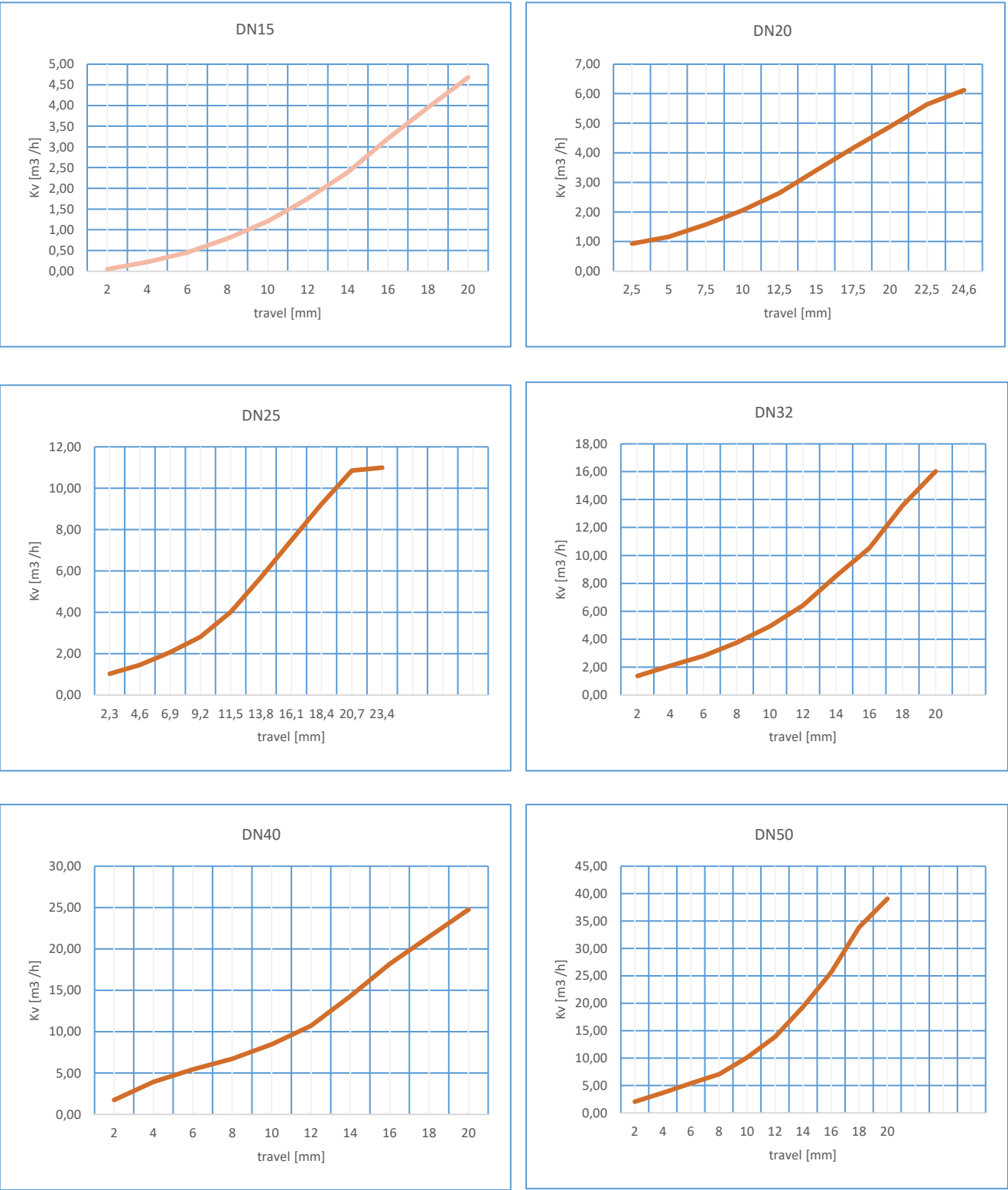


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FIG.236

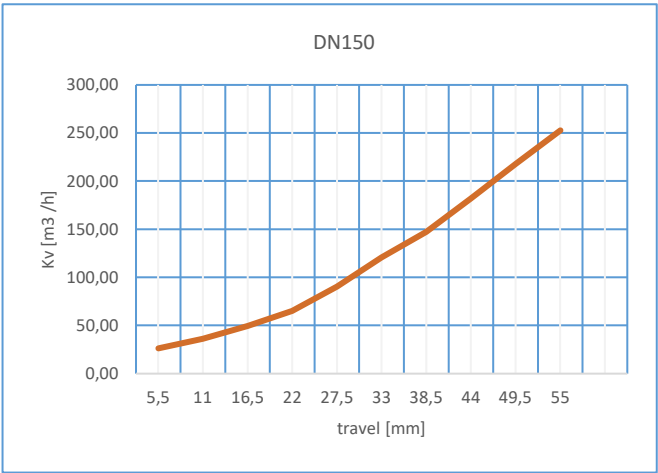
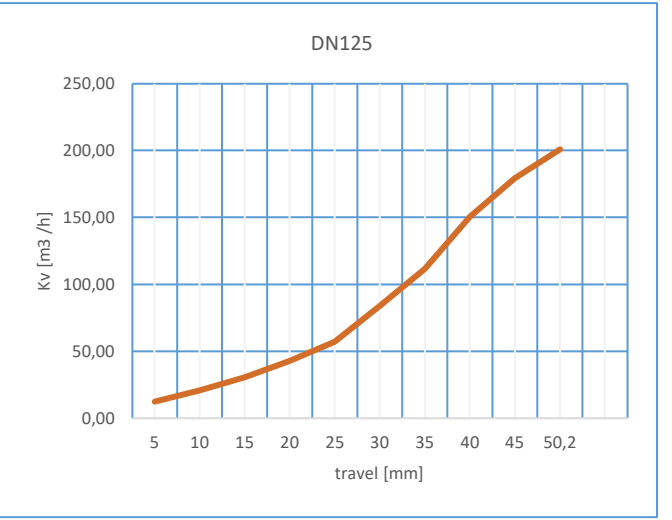
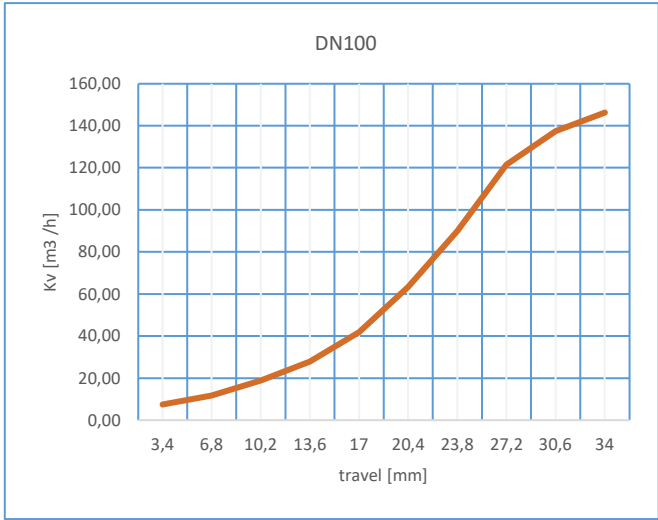
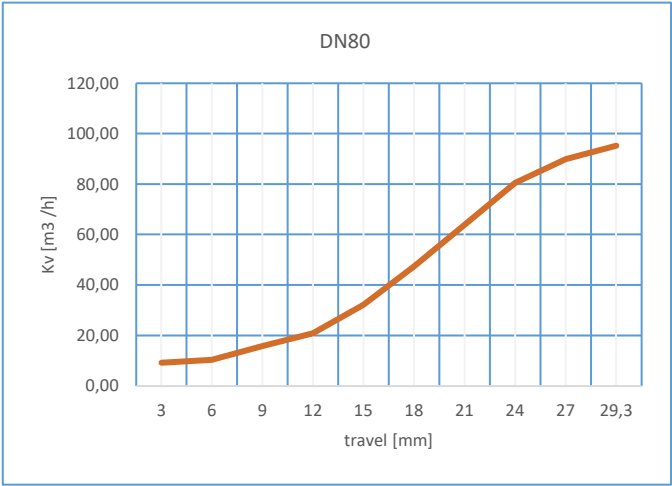
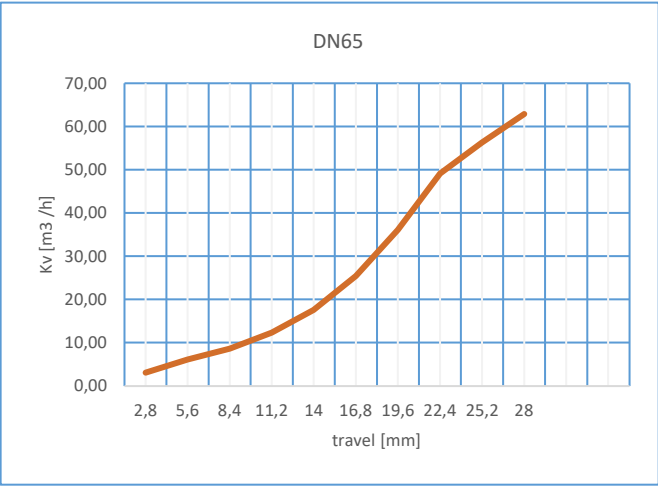
HYDRAULIC CHARACTERISTICS PN 40



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FIG.236

EQUIPMENT

STANDARD EQUIPMENT OF CONTROL VALVE WITH PNEUMATIC ACTUATOR AND POSITIONER:

- pneumatic actuator produced in two versions: SPZ, SPO
detailed data in the documentation DTR pneumatic actuators
- positioner produced in two versions
detailed data in the documentation DTR positioner PZ2000

TYPE

Figure	Body material	Nominal diameter	Nominal pressure	Type
236	A Grey cast iron EN-GJL-250	15-32 mm	C 16 bar	A21 bellow control valve; SRI 986 – electro-pneumatic positioner or SRD998 – intelligent positioner; pneumatic actuator SPZ280
		20-65 mm	C 16 bar	B21 bellow control valve; SRI 986 – electro-pneumatic positioner or SRD998 – intelligent positioner; pneumatic actuator SPZ530
		40-100 mm	C 16 bar	C21 bellow control valve; SRI 986 – electro-pneumatic positioner or SRD998 – intelligent positioner; pneumatic actuator SPZ1000
		15-50 mm	C 16 bar	A31 bellow control valve; SRI 986 – electro-pneumatic positioner or SRD998 – intelligent positioner; pneumatic actuator SPO280
		50-100 mm	C 16 bar	B31 bellow control valve; SRI 986 – electro-pneumatic positioner or SRD998 – intelligent positioner; pneumatic actuator SPO530
		65-150 mm	C 16 bar	C31 bellow control valve; SRI 986 – electro-pneumatic positioner or SRD998 – intelligent positioner; pneumatic actuator SPO1000
236	C Nodular cast iron EN-GJS-400-18-LT	15-32 mm	C 16 bar	A21 bellow control valve; SRI 986 – electro-pneumatic positioner or SRD998 – intelligent positioner; pneumatic actuator SPZ280
		20-65 mm	C 16 bar	B21 bellow control valve; SRI 986 – electro-pneumatic positioner or SRD998 – intelligent positioner; pneumatic actuator SPZ530
		40-100 mm	C 16 bar	C21 bellow control valve; SRI 986 – electro-pneumatic positioner or SRD998 – intelligent positioner; pneumatic actuator SPZ1000
		15-50 mm	C 16 bar	A31 bellow control valve; SRI 986 – electro-pneumatic positioner or SRD998 – intelligent positioner; pneumatic actuator SPO280
		50-100 mm	C 16 bar	B31 bellow control valve; SRI 986 – electro-pneumatic positioner or SRD998 – intelligent positioner; pneumatic actuator SPO530
		65-150 mm	C 16 bar	C31 bellow control valve; SRI 986 – electro-pneumatic positioner or SRD998 – intelligent positioner; pneumatic actuator SPO1000
		15-32 mm	D 25 bar	A21 bellow control valve; SRI 986 – electro-pneumatic positioner or SRD998 – intelligent positioner; pneumatic actuator SPZ280
		20-65 mm	D 25 bar	B21 bellow control valve; SRI 986 – electro-pneumatic positioner or SRD998 – intelligent positioner; pneumatic actuator SPZ530
		40-100 mm	D 25 bar	C21 bellow control valve; SRI 986 – electro-pneumatic positioner or SRD998 – intelligent positioner; pneumatic actuator SPZ1000
		15-50 mm	D 25 bar	A31 bellow control valve; SRI 986 – electro-pneumatic positioner or SRD998 – intelligent positioner; pneumatic actuator SPO280
		50-100 mm	D 25 bar	B31 bellow control valve; SRI 986 – electro-pneumatic positioner or SRD998 – intelligent positioner; pneumatic actuator SPO530
		65-150 mm	D 25 bar	C31 bellow control valve; SRI 986 – electro-pneumatic positioner or SRD998 – intelligent positioner; pneumatic actuator SPO1000

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236	F Cast steel GP240GH 1.0619	15-32 mm	E 40 bar	A21 bellow control valve; SRI 986 – electro-pneumatic positioner or SRD998 – intelligent positioner; pneumatic actuator SPZ280
		20-65 mm	E 40 bar	B21 bellow control valve; SRI 986 – electro-pneumatic positioner or SRD998 – intelligent positioner; pneumatic actuator SPZ530
		40-100 mm	E 40 bar	C21 bellow control valve; SRI 986 – electro-pneumatic positioner or SRD998 – intelligent positioner; pneumatic actuator SPZ1000
		15-50 mm	E 40 bar	A31 bellow control valve; SRI 986 – electro-pneumatic positioner or SRD998 – intelligent positioner; pneumatic actuator SPO280
		50-100 mm	E 40 bar	B31 bellow control valve; SRI 986 – electro-pneumatic positioner or SRD998 – intelligent positioner; pneumatic actuator SPO530
		65-150 mm	E 40 bar	C31 bellow control valve; SRI 986 – electro-pneumatic positioner or SRD998 – intelligent positioner; pneumatic actuator SPO1000
	I cast stainless steel G-X5CrNiMo19-11-2	15-32 mm	E 40 bar	A21 bellow control valve; SRI 986 – electro-pneumatic positioner or SRD998 – intelligent positioner; pneumatic actuator SPZ280
		20-65 mm	E 40 bar	B21 bellow control valve; SRI 986 – electro-pneumatic positioner or SRD998 – intelligent positioner; pneumatic actuator SPZ530
		40-100 mm	E 40 bar	C21 bellow control valve; SRI 986 – electro-pneumatic positioner or SRD998 – intelligent positioner; pneumatic actuator SPZ1000
		15-50 mm	E 40 bar	A31 bellow control valve; SRI 986 – electro-pneumatic positioner or SRD998 – intelligent positioner; pneumatic actuator SPO280
		50-100 mm	E 40 bar	B31 bellow control valve; SRI 986 – electro-pneumatic positioner or SRD998 – intelligent positioner; pneumatic actuator SPO530
		65-150 mm	E 40 bar	C31 bellow control valve; SRI 986 – electro-pneumatic positioner or SRD998 – intelligent positioner; pneumatic actuator SPO1000

ORDERING

Figure	Body material	Nominal diameter	Nominal pressure	Type
236	A Grey cast iron EN-GJL-250	15-50 mm	C 16 bar	A21 bellow control valve; SRI 986 – electro-pneumatic positioner or SRD998 – intelligent positioner; pneumatic actuator SPZ280

Order example acc. index

236 A 050 C A21

Bellow control valve with pneumatic actuator and positioner

Grey cast iron EN-GJL-250

Nominal diameter (mm)

Nominal pressure PN 16

Bellow control valve; SRI 986 – electro-pneumatic positioner or SRD998 – intelligent positioner; pneumatic actuator SPZ280

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