

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	450°C



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

FEATURES

- high tightness (leakproofness class - A acc. EN -12266 - 1)
- face of face dimensions: series 1 acc. EN 558
- flange end connections: EN-1092-2
- rangeability 50:1
- equal percentage flow characteristic
- environment friendly

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



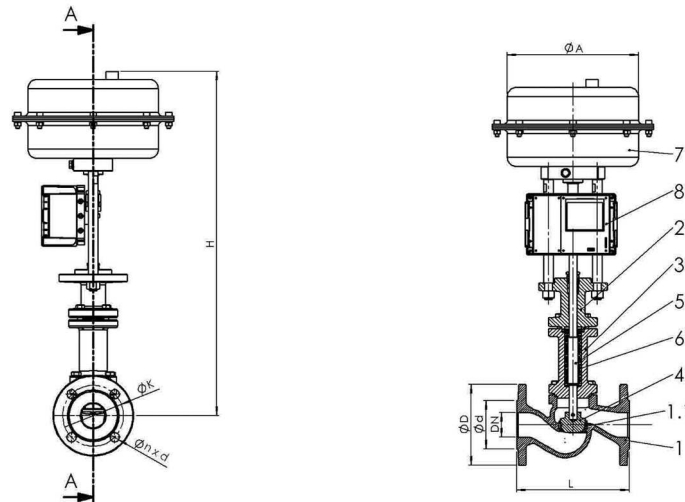
NEUTRAL
FLUIDS

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FIG.236

MATERIALS, DIMENSIONS



	Body material	A	C	F
	Type	71		
1	Body	EN – GJL-250 5.1301 (ex. JL1040)	EN – GJS-400 – 18-LT 5.3103 (ex.JS1025)	GP240GH+N 1.0619
1.1	Seat ring	X20Cr13 1.4021	X20Cr13 1.4021	X20Cr13 1.4021
2	Top bonnet	EN – GJS-400 – 18-LT 5.3103 (ex.JS1025)		GP240GH+N 1.0619 / P265GH 1.0425
3	Bottom bonnet	EN – GJS-400 – 18-LT 5.3103 (ex.JS1025)		GP240GH+N 1.0619 / P265GH 1.0425
4	Disc	X20Cr13 1.4021	X20Cr13 1.4021	X20Cr13 1.4021
5	Stem	X20Cr13 1.4021	X20Cr13 1.4021	X20Cr13 1.4021
6	Bellow	X6CrNiMoTi17-2-2		X6CrNiMoTi18-10
7	Pneumatic actuator	SP280, SP530, SP1000		
8	Positioner	PZ 5000		
Max. temperature		300°C	350°C	450°C

DN	15	20	25	32	40	50	65	80	100	125	150
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
L (mm)	130	150	160	180	200	230	290	310	350	400	480
n x d (mm)	4x14	4x14	4x14	4x19	4x19	4x19	4x19	8x19	8x19	8x19	8x23
H (SP280 A=230)	615	615	620	630	650	656	710	708	744	810	832
H (SP530 A=330)	-	-	-	-	-	707	760	758	795	861	883
H (SP1000 A=474)	-	-	-	-	-	-	820	818	855	921	943

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MAX. PERMISSIBLE CLOSING PRESSURES

Actuator	Operating pressure (kPa)	Nominal diameter DN										
		15	20	25	32	40	50	65	80	100	125	150
		Max. permissible closing pressures (bar)										
H (SP280 A=230)	140	21,5	16,8	11,74	7,9	5,8	3,6	2,1	1,5	1	0,6	0,4
	250	64,7	50,5	35,3	23,7	17,6	11	6,4	4,5	3	2	1,4
	400	125,8	98,2	68,7	46,1	34,2	21,5	12,6	8,7	5,8	3,8	2,7
H (SP530 A=330)	140	-	-	-	-	-	4,9	2,9	2	1,3	0,9	0,6
	250	-	-	-	-	-	19	11,1	7,7	5,1	3,4	2,4
	400	-	-	-	-	-	38,7	22,7	15,7	10,5	7	5
H (SP1000 A=474)	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

PRESSURE-TEMPERATURE RATINGS

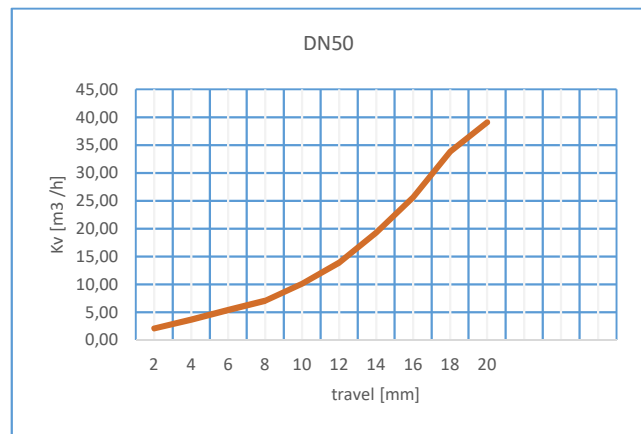
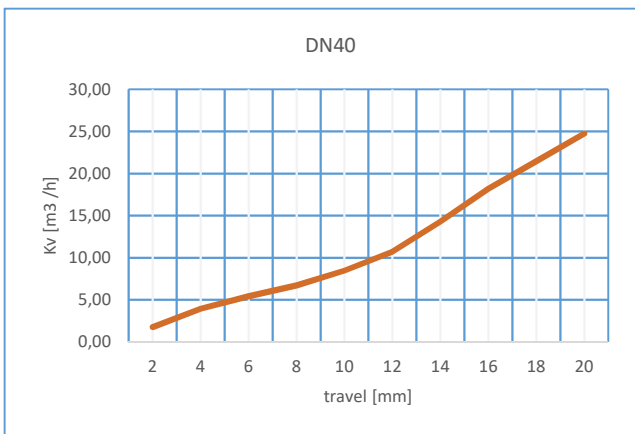
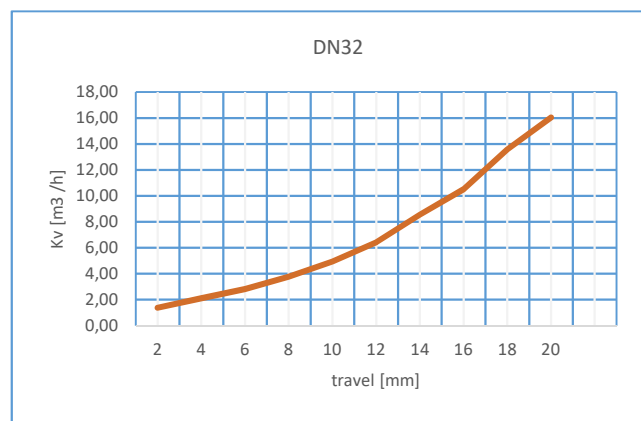
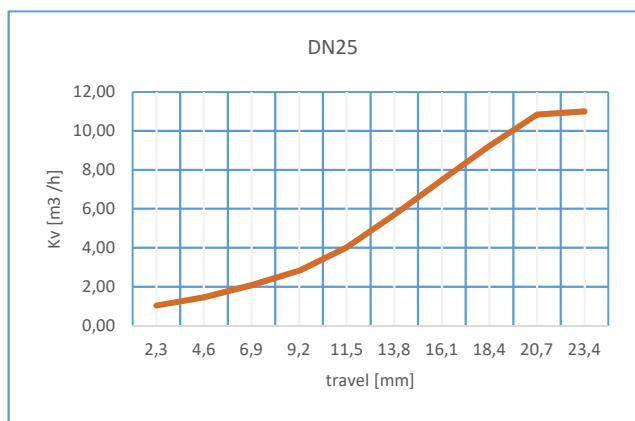
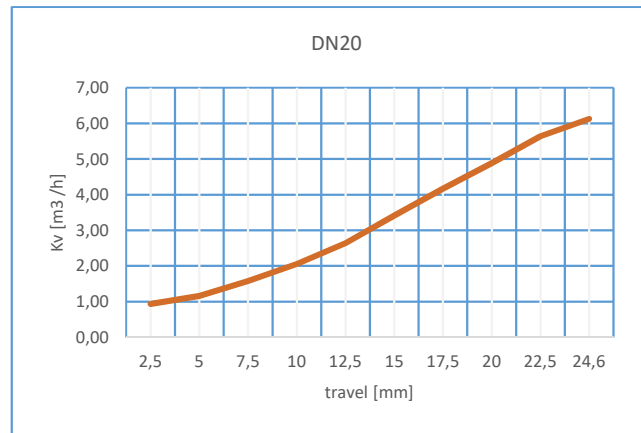
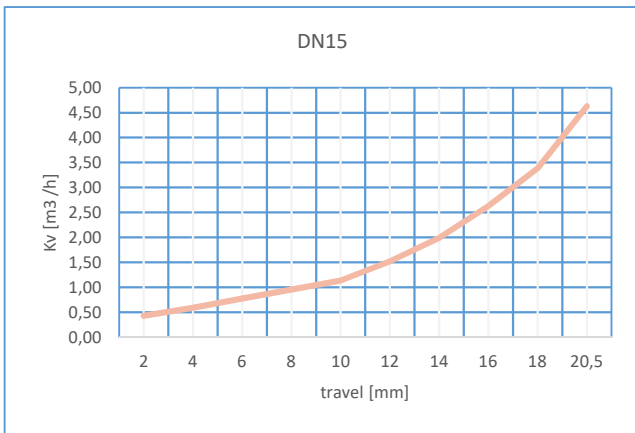
Acc. EN 1092-2	PN		-60÷ -10°C	-10 ÷120°C	150°C	200°C	250°C	300°C	350°C	400°C	450°C
EN – GJL-250	16	bar	-	16	14,4	12,8	11,2	9,6	-	-	-
EN – GJS-400 – 18-LT	16		-	16	15,5	14,7	13,9	12,8	11,2	-	-
EN – GJS-400 – 18-LT	25		-	25	24,3	23	21,8	20	17,5	-	-
Acc. EN 1092-1	PN		-20÷ -10°C	10-100°C	150°C	200°C	250°C	300°C	350°C	400°C	450°C
GP240GH+N	40	bar	30	37,1	35,2	33,3	30,4	27,6	25,7	23,8	13,1
Acc. EN 1092-1	PN		-60÷ -10°C	-10÷ 100°C	150°C	200°C	250°C	300°C	350°C	400°C	450°C
GX5CrNiMo19-11-2	40	bar	40	40	36,3	33,7	31,8	29,7	28,5	27,4	-

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FIG.236

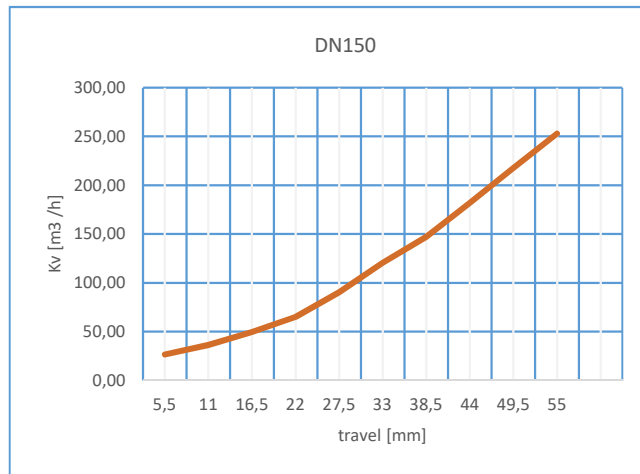
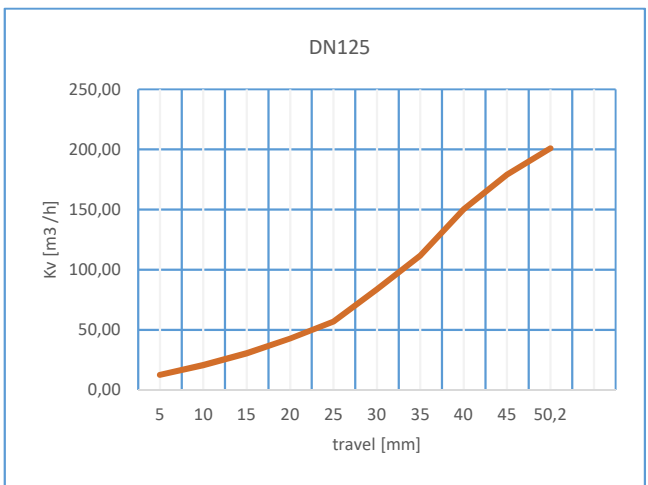
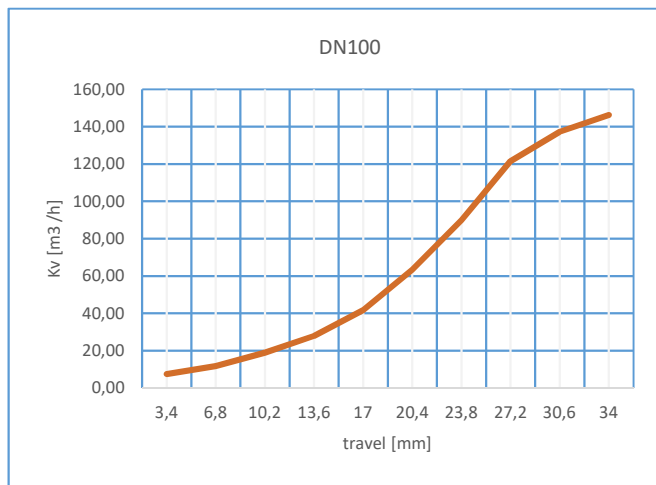
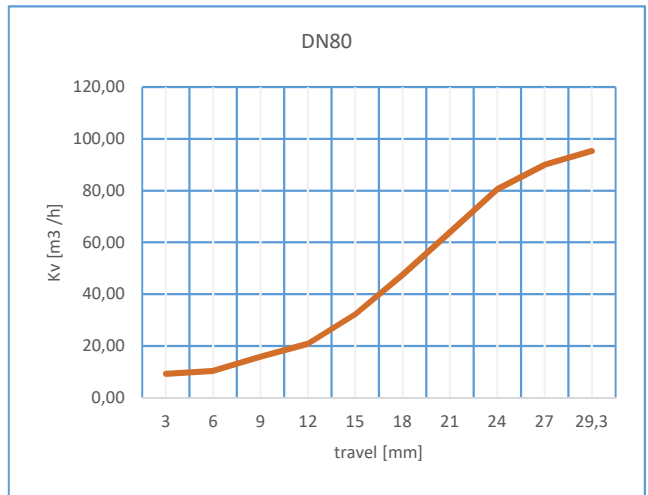
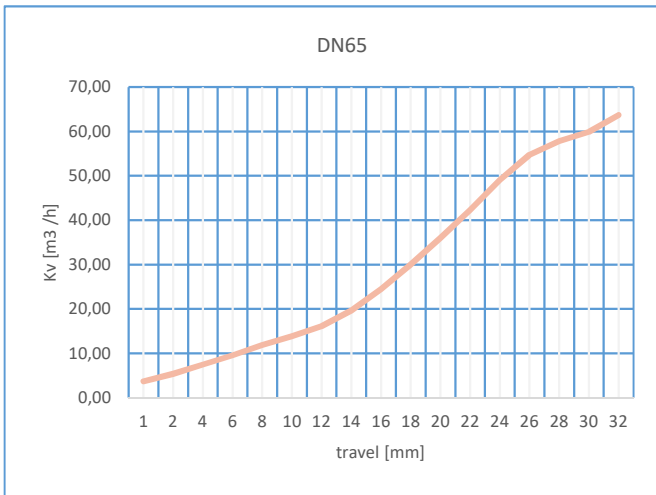
HYDRAULIC CHARACTERISTICS PN16, PN25



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FIG.236

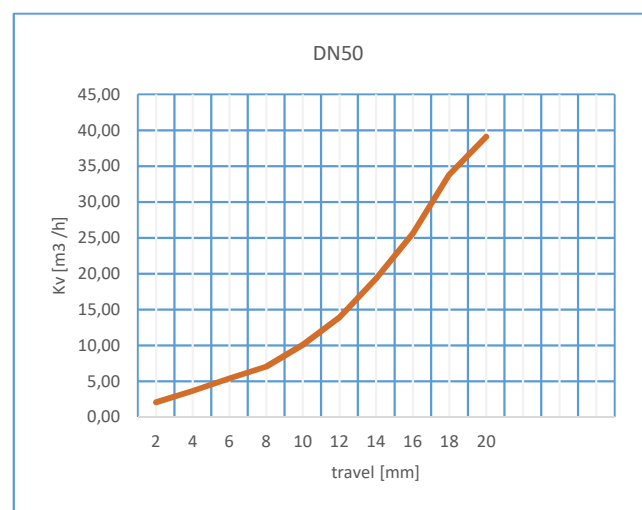
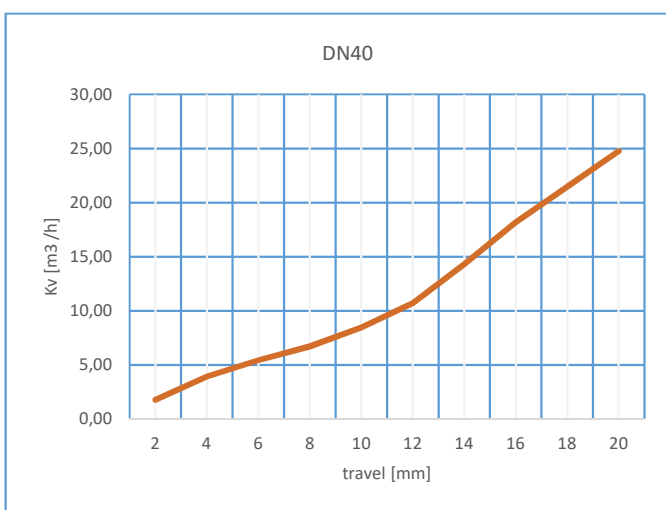
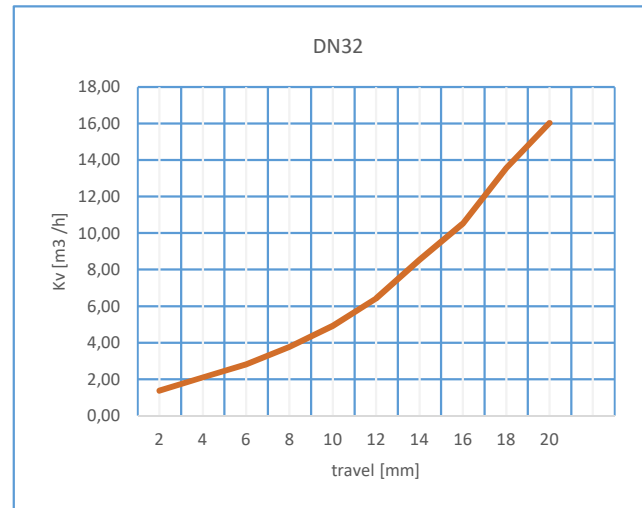
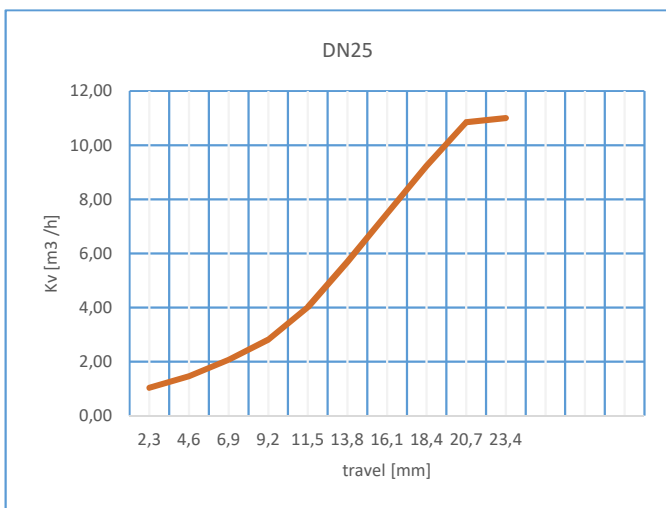
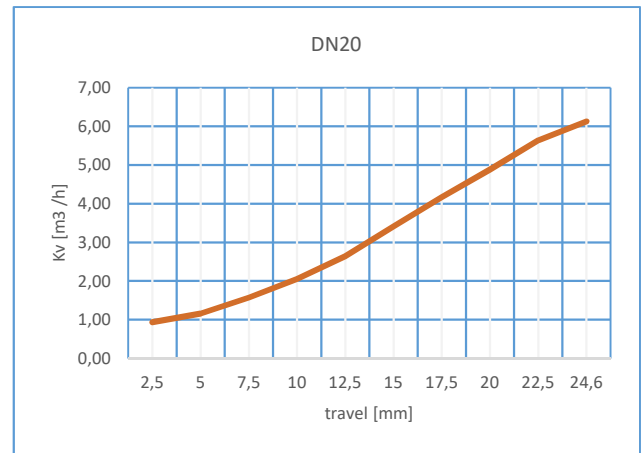
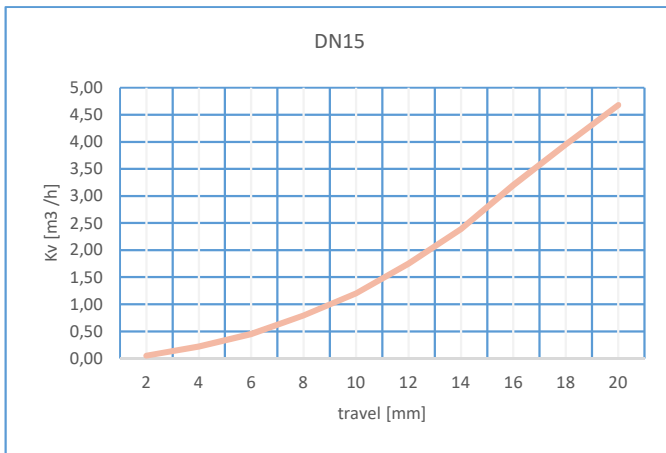


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FIG.236

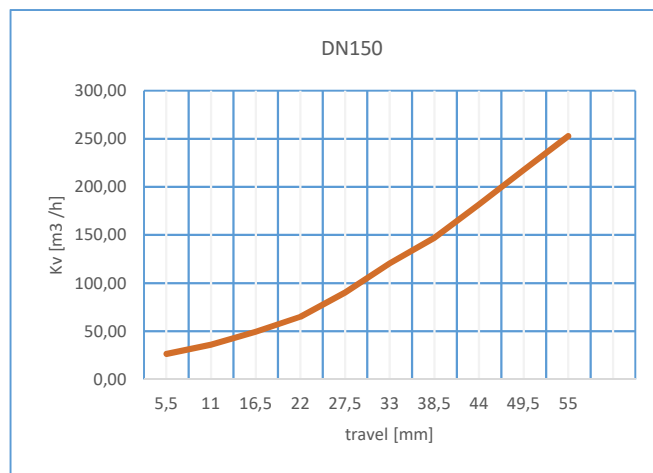
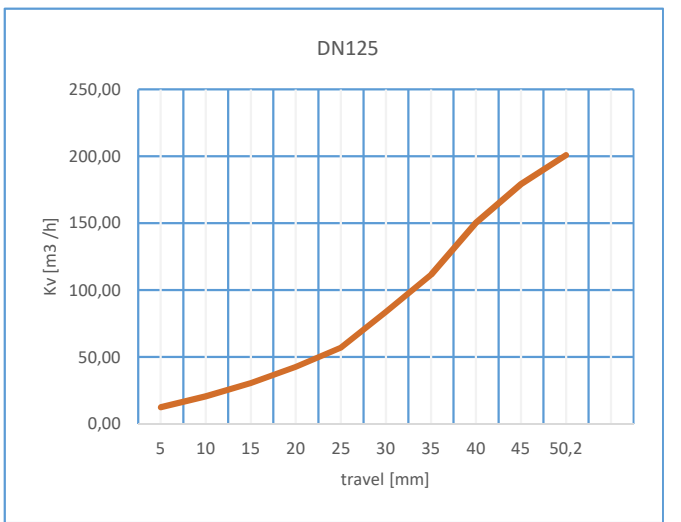
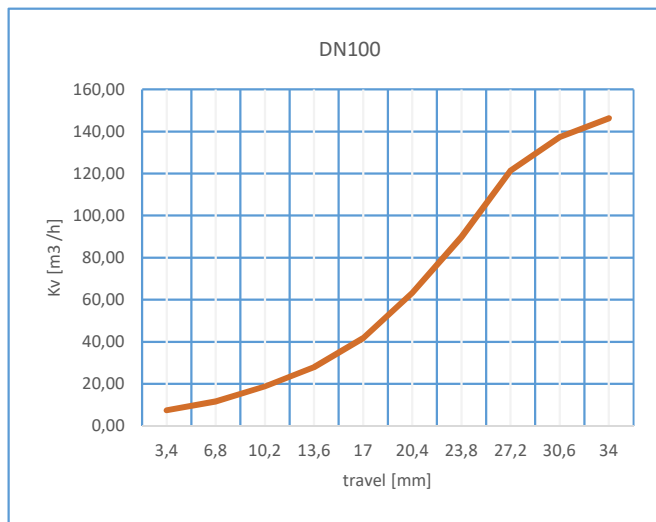
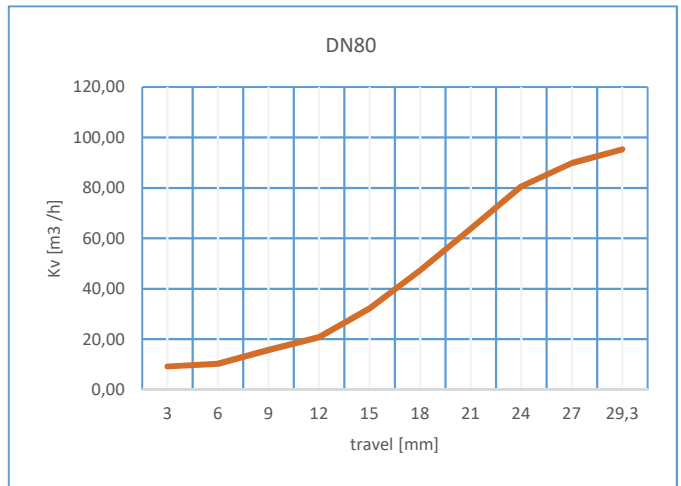
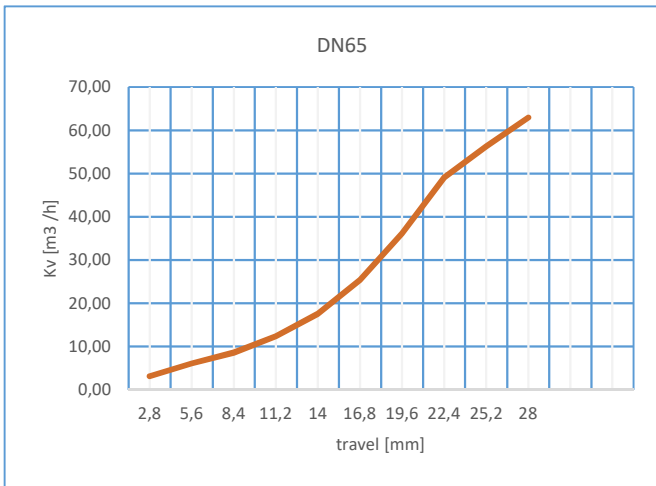
HYDRAULIC CHARACTERISTICS PN 40



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FIG.236



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EQUIPMENT

STANDARD EQUIPMENT OF CONTROL VALVE WITH PNEUMATIC ACTUATOR AND POSITIONER:

- pneumatic actuator produced in three versions, SP280, SP530, SP1000.
Detailed data in the documentation DTR pneumatic actuators.
- positioner PZ5000 produced in two versions.
Detailed data in the documentation DTR positioner PZ5000

OPTIONAL EQUIPMENT CONTROL VALVE WITH PNEUMATIC ACTUATOR AND POSITIONER:

- temperature sensors - the ability to monitor the temperature of refrigerant flowing through the valve
- pressure sensors and measuring orifice - the ability to monitor pressure and flow through the control valve

TYPE

Figure	Body material	Nominal diameter	Nominal pressure	Type
236	A Grey cast iron EN-GJL-250	15-150 mm	C 16 bar	A01 bellow control valve; positioner PZ5000 - analog display; pneumatic actuator SP280
		50-150 mm	C 16 bar	B01 bellow control valve; positioner PZ5000 - analog display; pneumatic actuator SP530
		65-150 mm	C 16 bar	C01 bellow control valve; positioner PZ5000 - analog display; pneumatic actuator SP1000
		15-150 mm	C 16 bar	A11 bellow control valve; positioner PZ5000 - touch screen; pneumatic actuator SP280
		50-150 mm	C 16 bar	B11 bellow control valve; positioner PZ5000 - touch screen; pneumatic actuator SP530
		65-150 mm	C 16 bar	C11 bellow control valve; positioner PZ5000 - touch screen; pneumatic actuator SP1000
236	C Nodular cast iron EN-GJS-400-18-LT	15-150 mm	C 16 bar	A01 bellow control valve; positioner PZ5000 - analog display; pneumatic actuator SP280
		50-150 mm	C 16 bar	B01 bellow control valve; positioner PZ5000 - analog display; pneumatic actuator SP530
		65-150 mm	C 16 bar	C01 bellow control valve; positioner PZ5000 - analog display; pneumatic actuator SP1000
		15-150 mm	C 16 bar	A11 bellow control valve; positioner PZ5000 - touch screen; pneumatic actuator SP280
		50-150 mm	C 16 bar	B11 bellow control valve; positioner PZ5000 - touch screen; pneumatic actuator SP530
		65-150 mm	C 16 bar	C11 bellow control valve; positioner PZ5000 - touch screen; pneumatic actuator SP1000
		15-150 mm	D 25 bar	A01 bellow control valve; positioner PZ5000 - analog display; pneumatic actuator SP280
		50-150 mm	D 25 bar	B01 bellow control valve; positioner PZ5000 - analog display; pneumatic actuator SP530
		65-150 mm	D 25 bar	C01 bellow control valve; positioner PZ5000 - analog display; pneumatic actuator SP1000
		15-150 mm	D 25 bar	A11 bellow control valve; positioner PZ5000 - touch screen; pneumatic actuator SP280
		50-150 mm	D 25 bar	B11 bellow control valve; positioner PZ5000 - touch screen; pneumatic actuator SP530

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236	F Cast steel GP240GH 1.0619	65-150 mm	D 25 bar	C11 bellow control valve; positioner PZ5000 - touch screen; pneumatic actuator SP1000
		15-150 mm	C 16 bar	A01 bellow control valve; positioner PZ5000 - analog display; pneumatic actuator SP280
		50-150 mm	C 16 bar	B01 bellow control valve; positioner PZ5000 - analog display; pneumatic actuator SP530
		65-150 mm	C 16 bar	C01 bellow control valve; positioner PZ5000 - analog display; pneumatic actuator SP1000
		15-150 mm	C 16 bar	A11 bellow control valve; positioner PZ5000 - touch screen; pneumatic actuator SP280
		50-150 mm	C 16 bar	B11 bellow control valve; positioner PZ5000 - touch screen; pneumatic actuator SP530
		65-150 mm	C 16 bar	C11 bellow control valve; positioner PZ5000 - touch screen; pneumatic actuator SP1000

ORDERING

Figure	Body material	Nominal diameter	Nominal pressure	Type
236	A Grey cast iron EN-GJL-250	15-150 mm	C 16 bar	A01 bellow control valve; positioner PZ5000 - analog display; pneumatic actuator SP280

Order example acc. index

236 A 050 C A01

236 A 050 C A01

Bellow control valve with pneumatic actuator and positioner
 Grey cast iron EN-GJL-250
 Nominal diameter (mm)
 Nominal pressure PN 16
 Bellow control valve; positioner PZ5000 - analog display; pneumatic actuator SP280

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