



figure

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# 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	400°C

\* version will be ready from IQw 2017



according PED 2014/68/UE

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

## APPLICATION

- industry
- heating industrie
- industrial water
- steam
- industrial oil
- refrigeration and air conditioning
- compressed air

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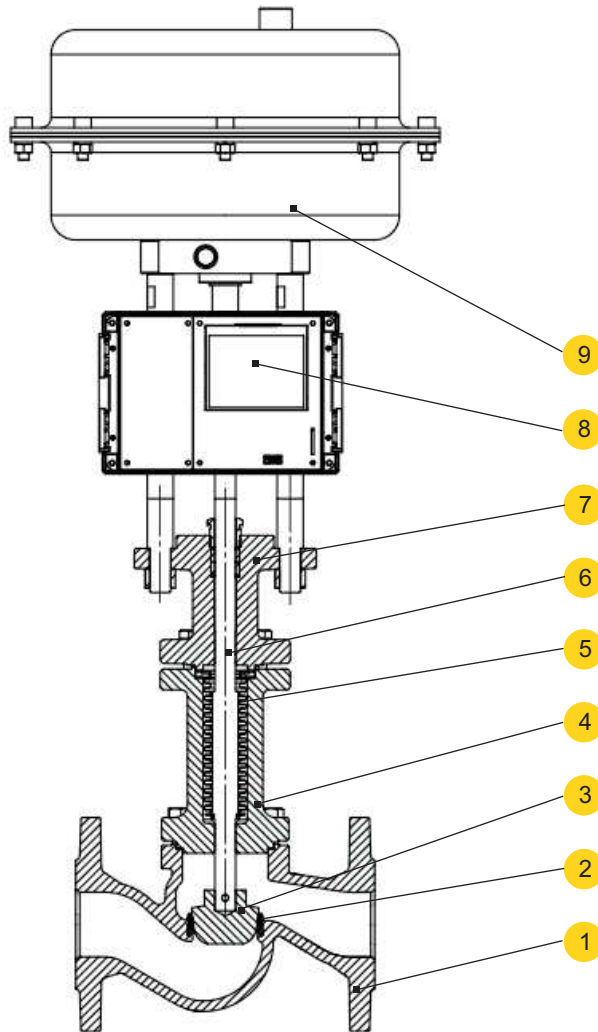


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## MATERIALS



	body material	A	C	F
	type	71	71	71
1	body	EN-GJL250 JL1040	EN-GJS400-18-LT JS1025	GP240GH 1.0619
2	seat ring	X12Cr13 1.4006		DN15-50 X12CR13 DN65-150 STELLIT
3	plug	X20Cr13 1.4021		
4	Bellow housing	EN-GJL250 JL1040	EN-GJS400-18-LT JS1025	GP240GH 1.0619
5	bellow	X6CrNiMoTi17-12-2		X6CrNiMoTi18-10
6	stem	X20Cr13 1.4021		
7	mounting bonet	EN-GJL250 JL1040	EN-GJS400-18-LT JS1025	GP240GH 1.0619
8	positioner	PZ5000		
8	pneumatic actuator	SP280, SP530, SP1000		
max. temperatura		300°C	350°C	400°C

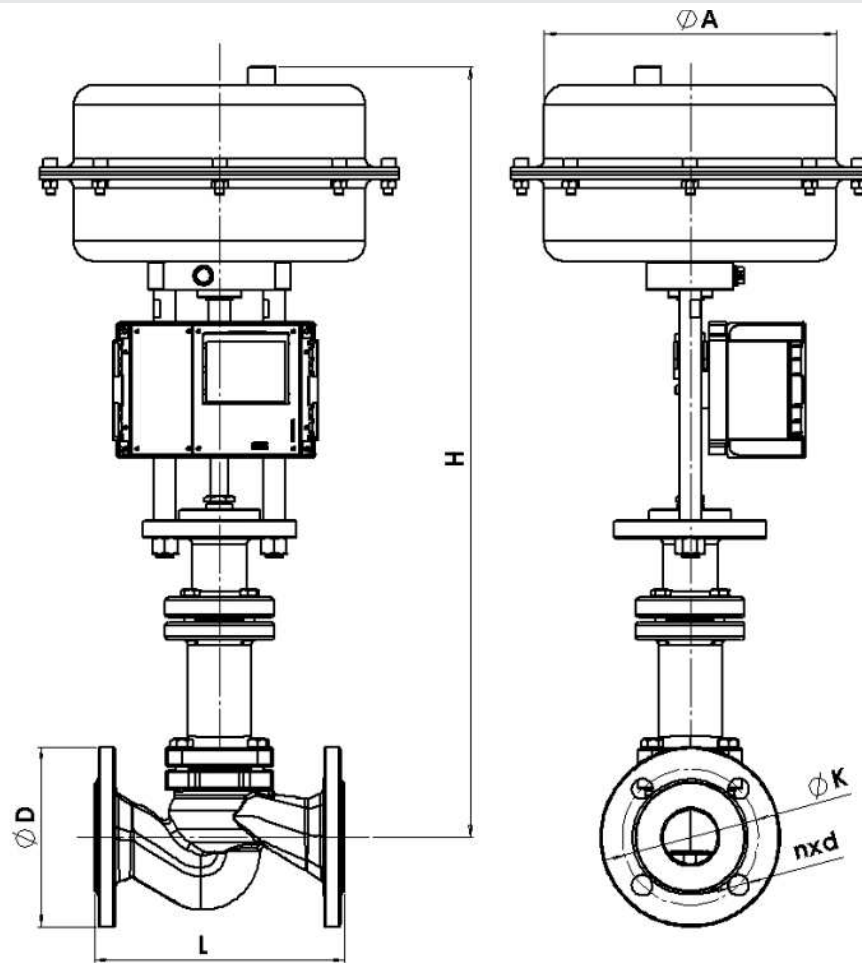
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**DIMENSION**


DN	D	K	L	n x d	H		
					SP280 A=230	SP530 A=330	SP1000 A=474
mm							
15	95	65	130	4x14	615	-	-
20	105	75	150	4x14	615	-	-
25	115	85	160	4x14	620	-	-
32	140	100	180	4x19	630	-	-
40	150	110	200	4x19	650	-	-
50	165	125	230	4x19	656	707	-
65	185	145	290	4x19	710	760	820
80	200	160	310	8x19	708	758	818
100	220	180	350	8x19	744	795	855
125	250	210	400	8x19	810	861	921
150	285	240	480	8x23	832	883	943

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**MAX. PERMISSIBLE CLOSING PRESSURES**

Control valve – pneumatic actuator				
Max. permissible closing pressures				
DN	Operating pressure (kPa)	Actuator SP280 (bar)	Actuator SP530 (bar)	Actuator SP1000 (bar)
15	140	21,5		
	250	64,7		
	400	125,8		
20	140	16,8		
	250	50,5		
	400	98,2		
25	140	11,74		
	250	35,3		
	400	68,7		
32	140	7,9		
	250	23,7		
	400	46,1		
40	140	5,8		
	250	17,6		
	400	34,2		
50	140	3,6	4,9	
	250	11	19,04	
	400	21,5	38,7	
65	140	2,1	2,9	6,6
	250	6,4	11,,1	22,5
	400	12,6	22,7	44
80	140	1,5	2	4,6
	250	4,5	7,7	15,6
	400	8,7	15,7	30,6
100	140	1	1,3	3
	250	3	5,1	10,4
	400	5,8	10,5	20,5
125	140	0,6	0,9	2
	250	2	3,,4	6,9
	400	3,8	7	13,6
150	140	0,4	0,6	1,4
	250	1,4	2,4	4,9,
	400	2,7	5	9,6

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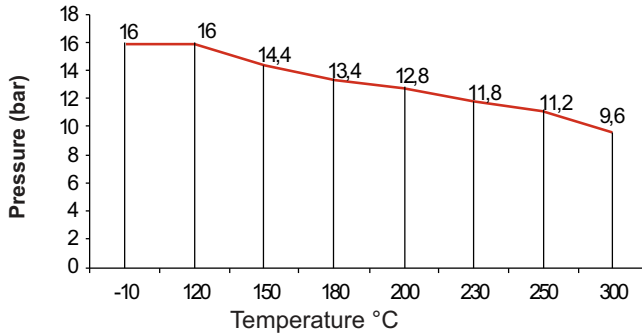
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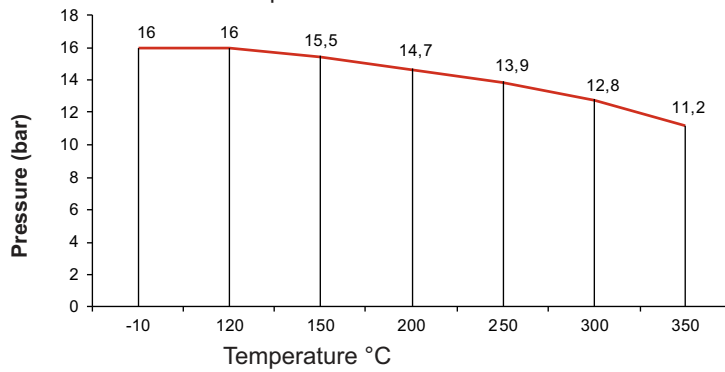
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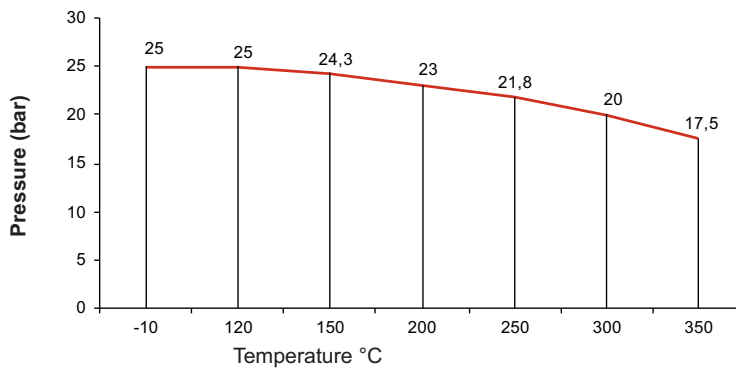
## PRESSURE-TEMPERATURE RATINGS



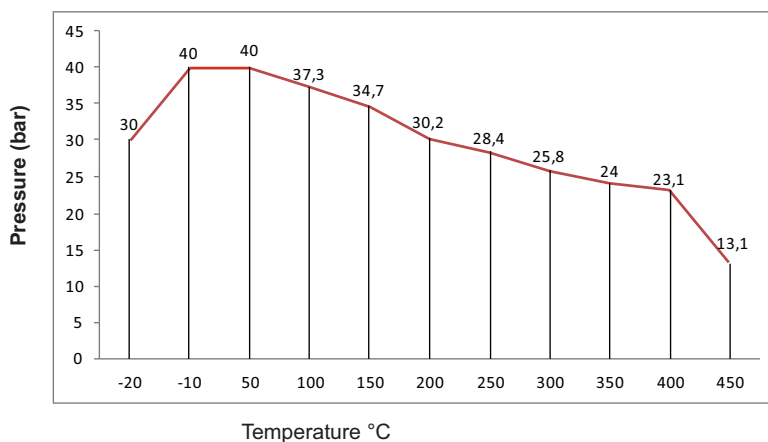
Allowed working conditions range  
PN 16 EN-GJL-250



Allowed working conditions range  
PN 16 EN-GJS-400-18-LT



Allowed working conditions range  
PN 25 EN-GJS-400-18-LT



Allowed working conditions range  
PN 40 GP240GH 1.0619



figure

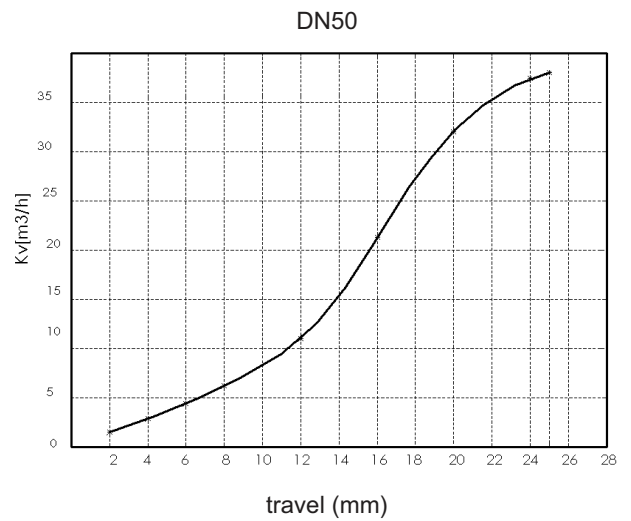
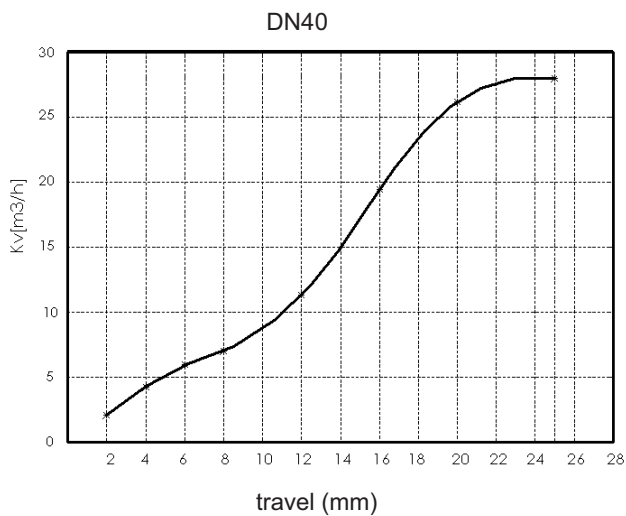
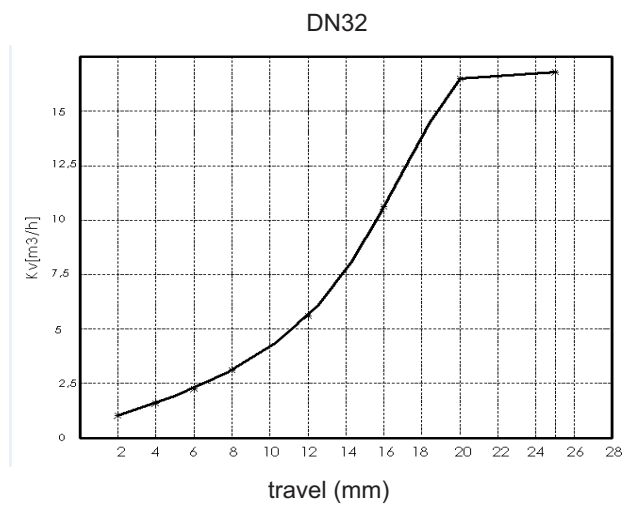
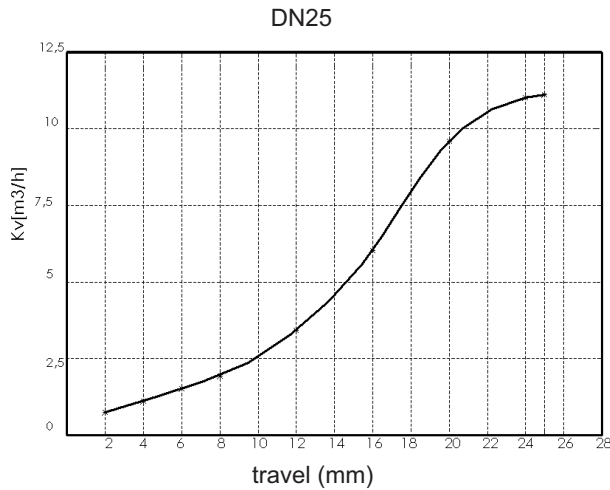
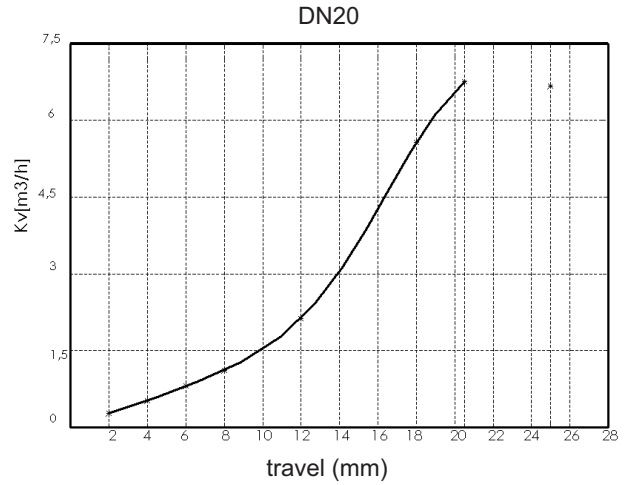
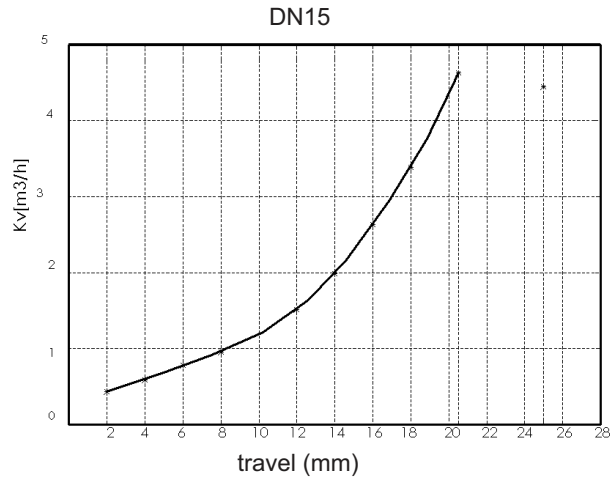
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## HYDRAULIC CHARACTERISTICS PN16, PN25

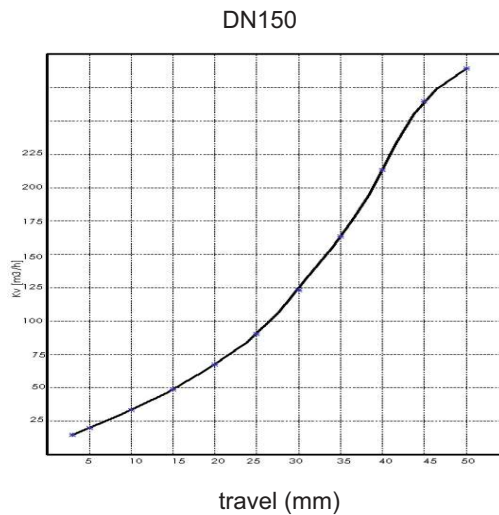
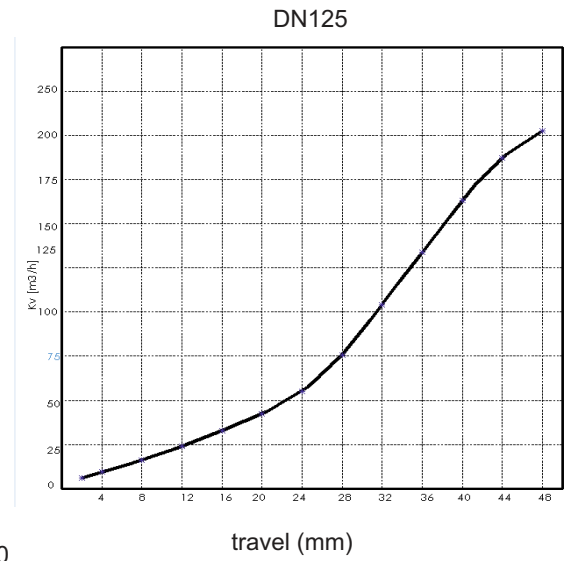
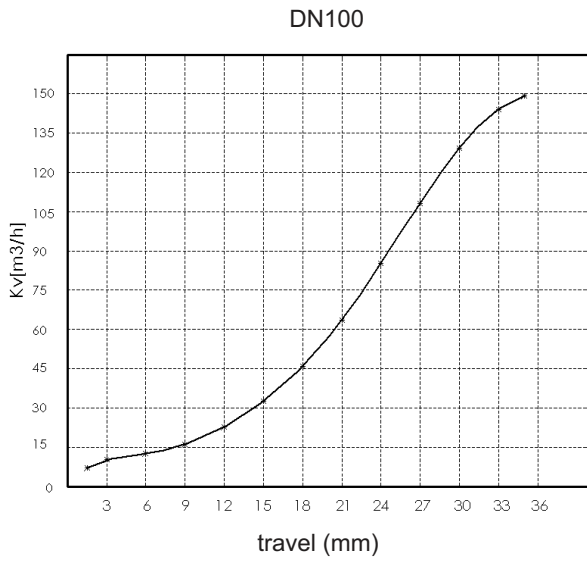
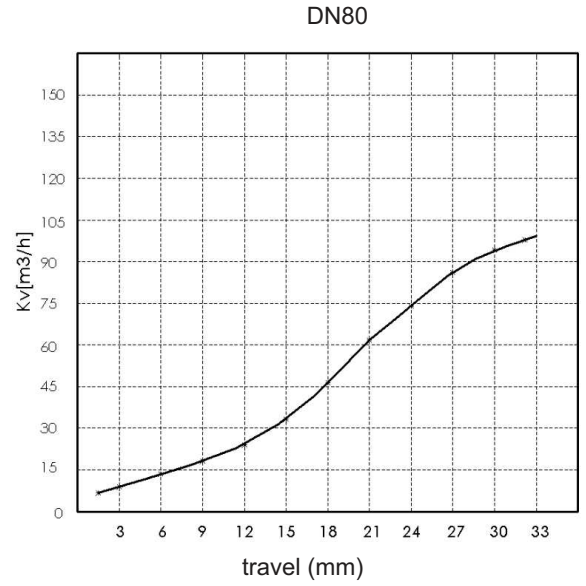
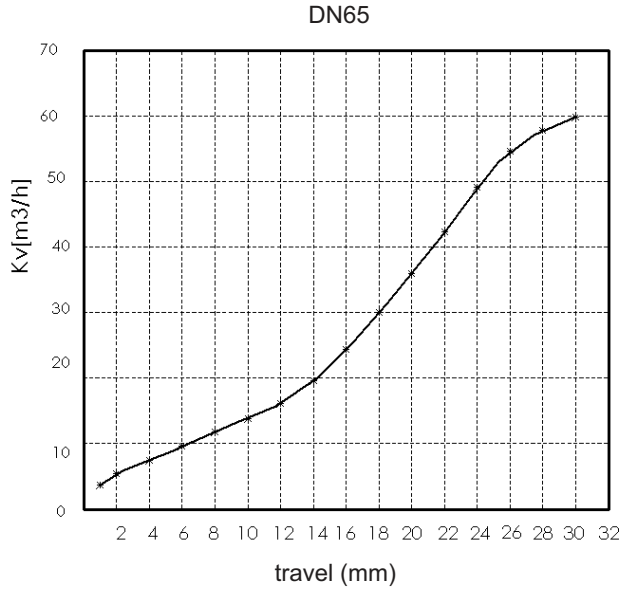


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**HYDRAULIC CHARACTERISTICS PN16 , PN25**

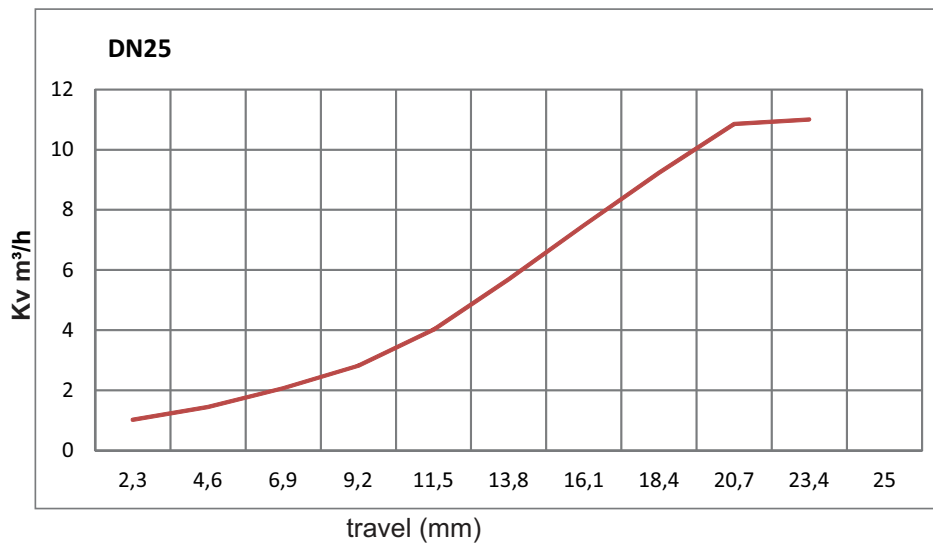
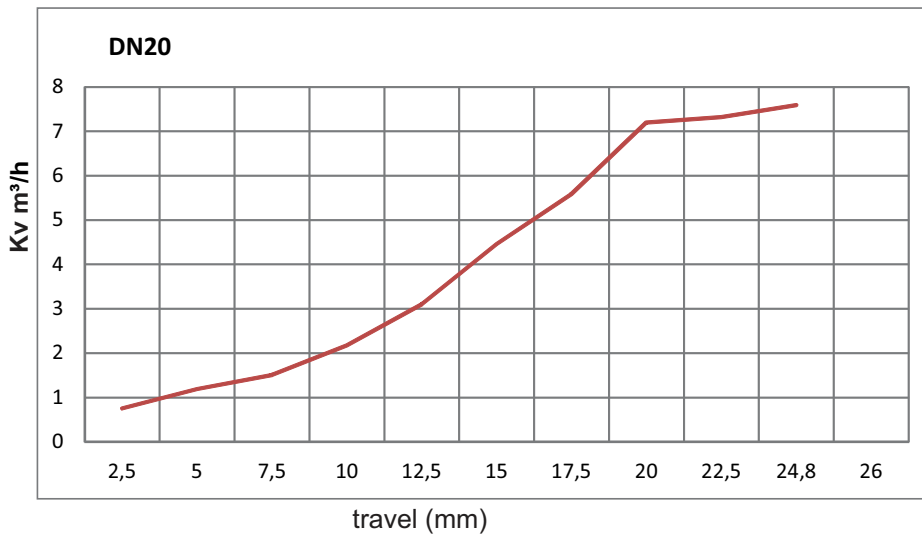
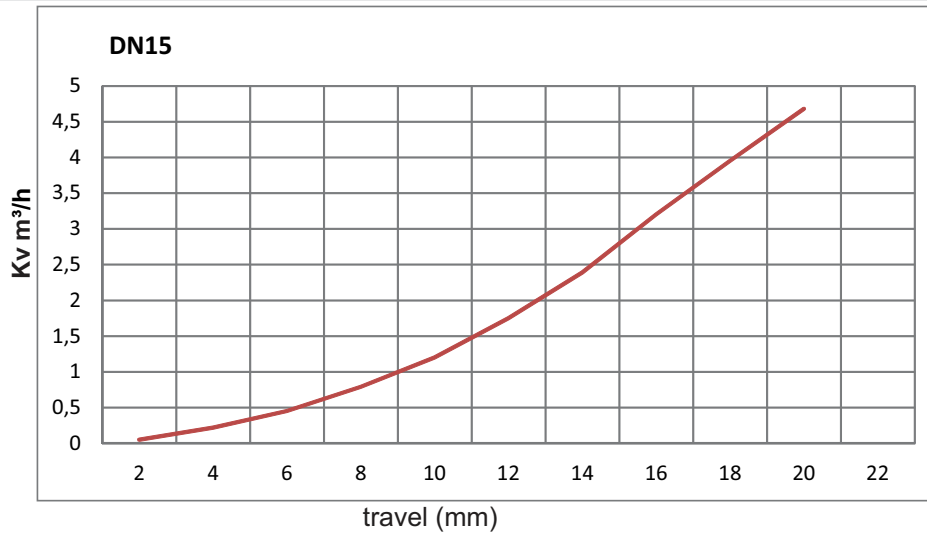


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## HYDRAULIC CHARACTERISTICS PN40



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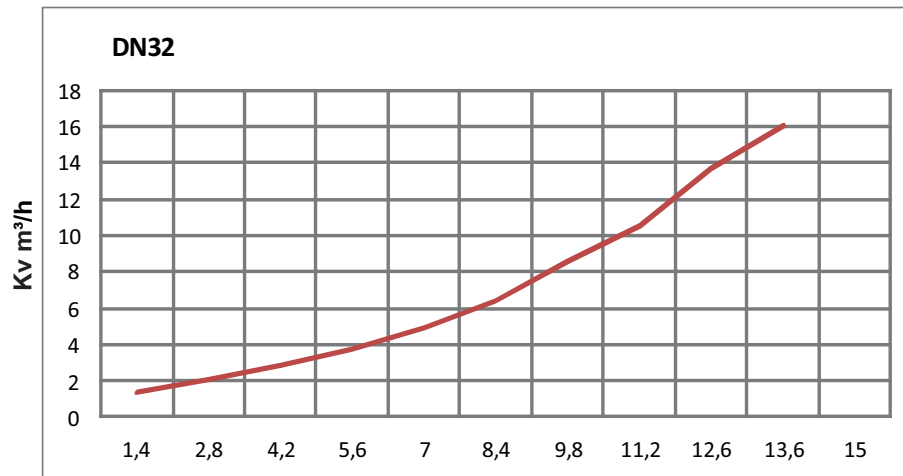
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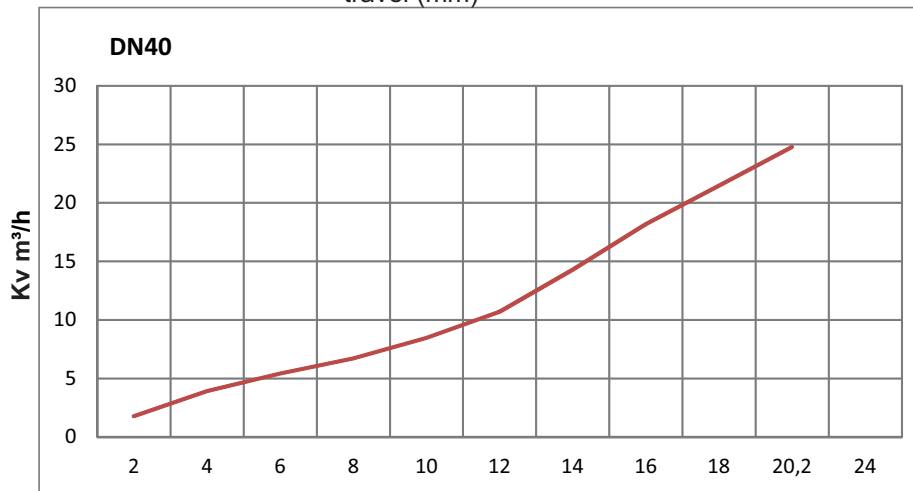
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ZETKAMA

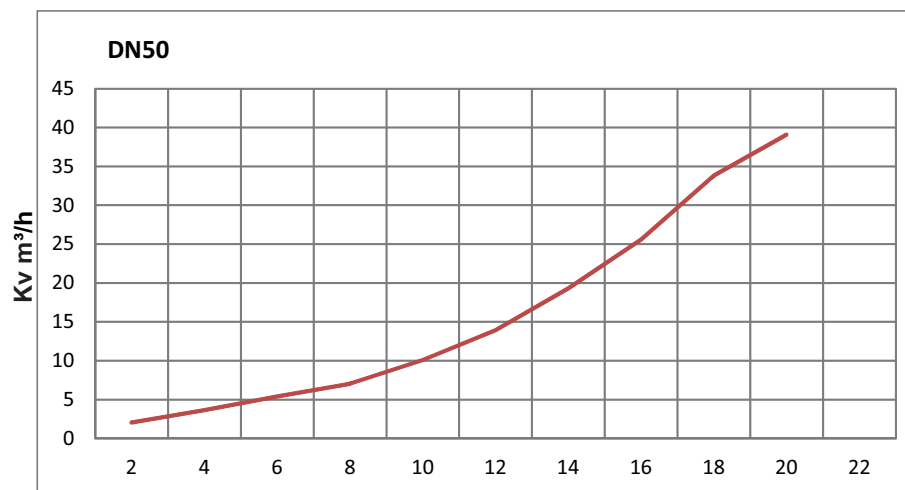
## HYDRAULIC CHARACTERISTICS PN40



travel (mm)



travel (mm)



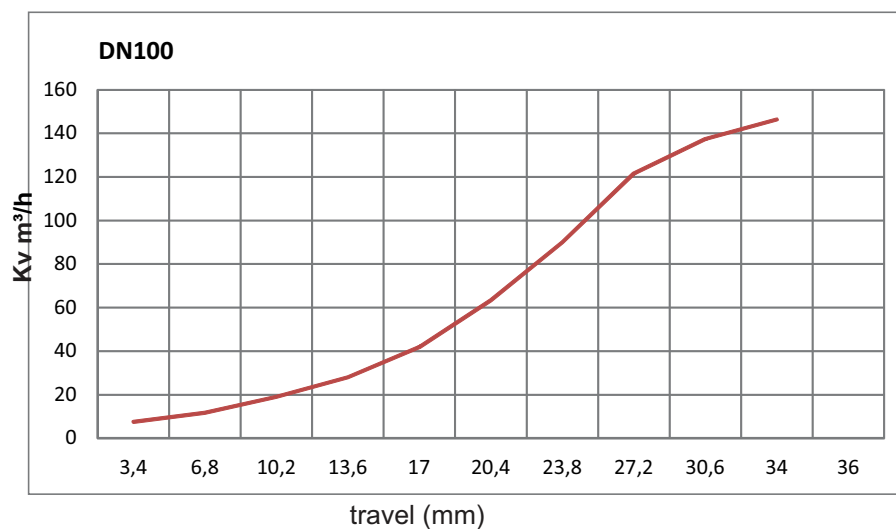
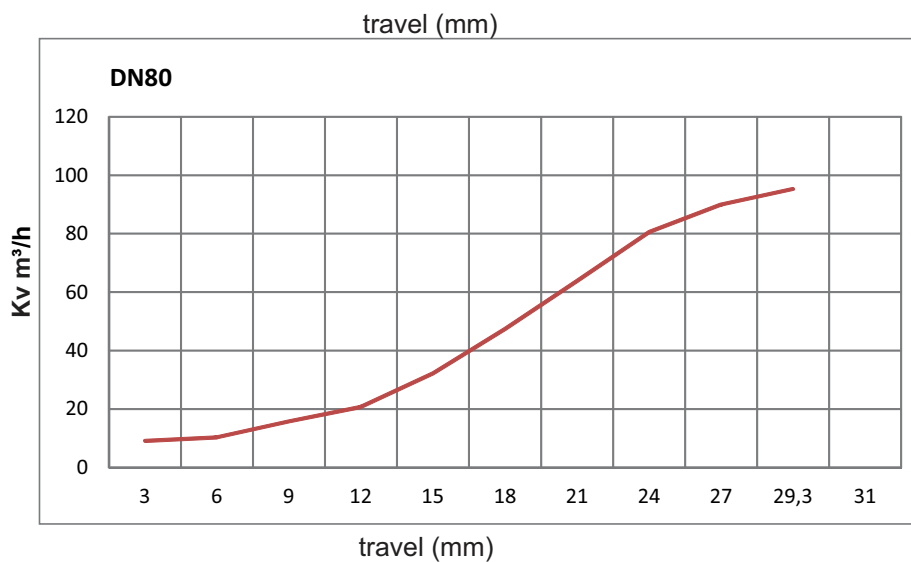
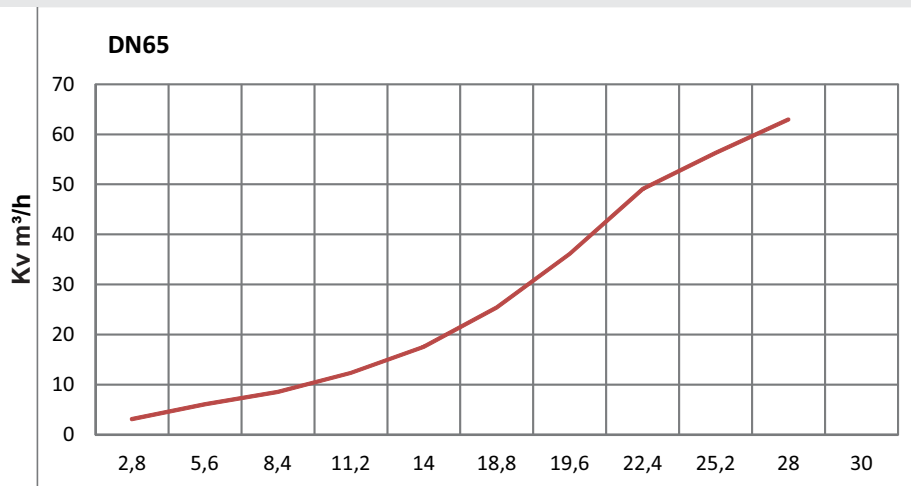
travel (mm)

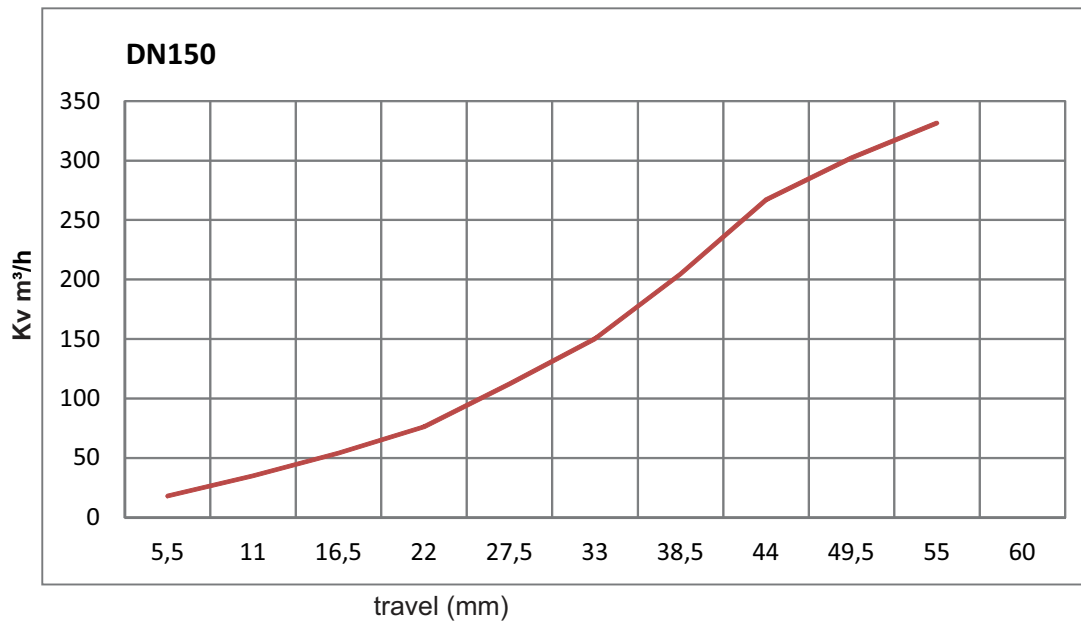
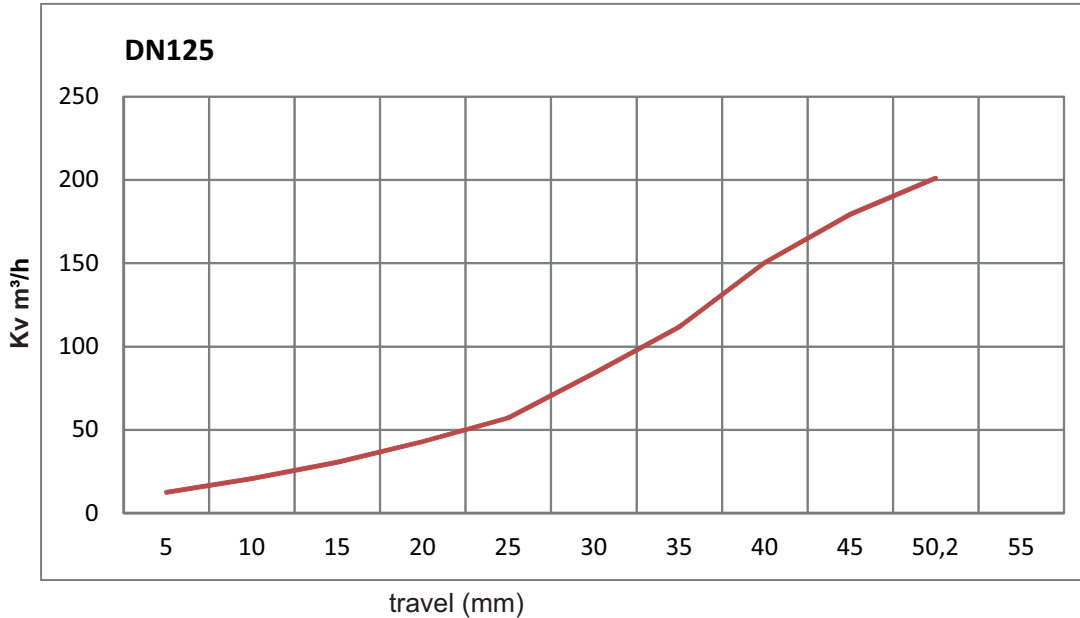
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## HYDRAULIC CHARACTERISTICS PN40



**HYDRAULIC CHARACTERISTICS PN40**



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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



Positioner PZ5000



Positioner PZ5000-1



Pneumatic actuator SP280,530,1000



figure

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straight

## TYPES

figure	body material	nominal diameter DN	nominal pressure PN	wykonanie
234	A grey cast iron EN-GJL-250	15-150 mm	C 16bar	<b>A01</b> • bellow control valve • positioner PZ5000 - analog display • pneumatic actuator SP280
		50-150 mm	C 16bar	<b>B01</b> • bellow control valve • positioner PZ5000 - analog display • pneumatic actuator SP530
		65-150 mm	C 16bar	<b>C01</b> • bellow control valve • positioner PZ5000 - analog display • pneumatic actuator SP1000
		15-150 mm	C 16bar	<b>A11</b> • bellow control valve • positioner PZ5000 - touch screen • pneumatic actuator SP280
		50-150 mm	C 16bar	<b>B11</b> • bellow control valve • positioner PZ5000 - touch screen • pneumatic actuator SP530
		65-150 mm	C 16bar	<b>C11</b> • bellow control valve • positioner PZ5000 - touch screen • pneumatic actuator SP1000
	C nodular cast iron EN-GJS-1025	15-150 mm	C 16bar	<b>A01</b> • bellow control valve • positioner PZ5000 - analog display • pneumatic actuator SP280
		50-150 mm	C 16bar	<b>B01</b> • bellow control valve • positioner PZ5000 - analog display • pneumatic actuator SP530
		65-150 mm	C 16bar	<b>C01</b> • bellow control valve • positioner PZ5000 - analog display • pneumatic actuator SP1000
		15-150 mm	C 16bar	<b>A11</b> • bellow control valve • positioner PZ5000 - touch screen • pneumatic actuator SP280
		50-150 mm	C 16bar	<b>B11</b> • bellow control valve • positioner PZ5000 - touch screen • pneumatic actuator SP530
		65-150 mm	C 16bar	<b>C11</b> • bellow control valve • positioner PZ5000 - touch screen • pneumatic actuator SP1000
		15-150 mm	D 25bar	<b>A01</b> • bellow control valve • positioner PZ5000 - analog display • pneumatic actuator SP280
		50-150 mm	D 25bar	<b>B01</b> • bellow control valve • positioner PZ5000 - analog display • pneumatic actuator SP530
		65-150 mm	D 25bar	<b>C01</b> • bellow control valve • positioner PZ5000 - analog display • pneumatic actuator SP1000

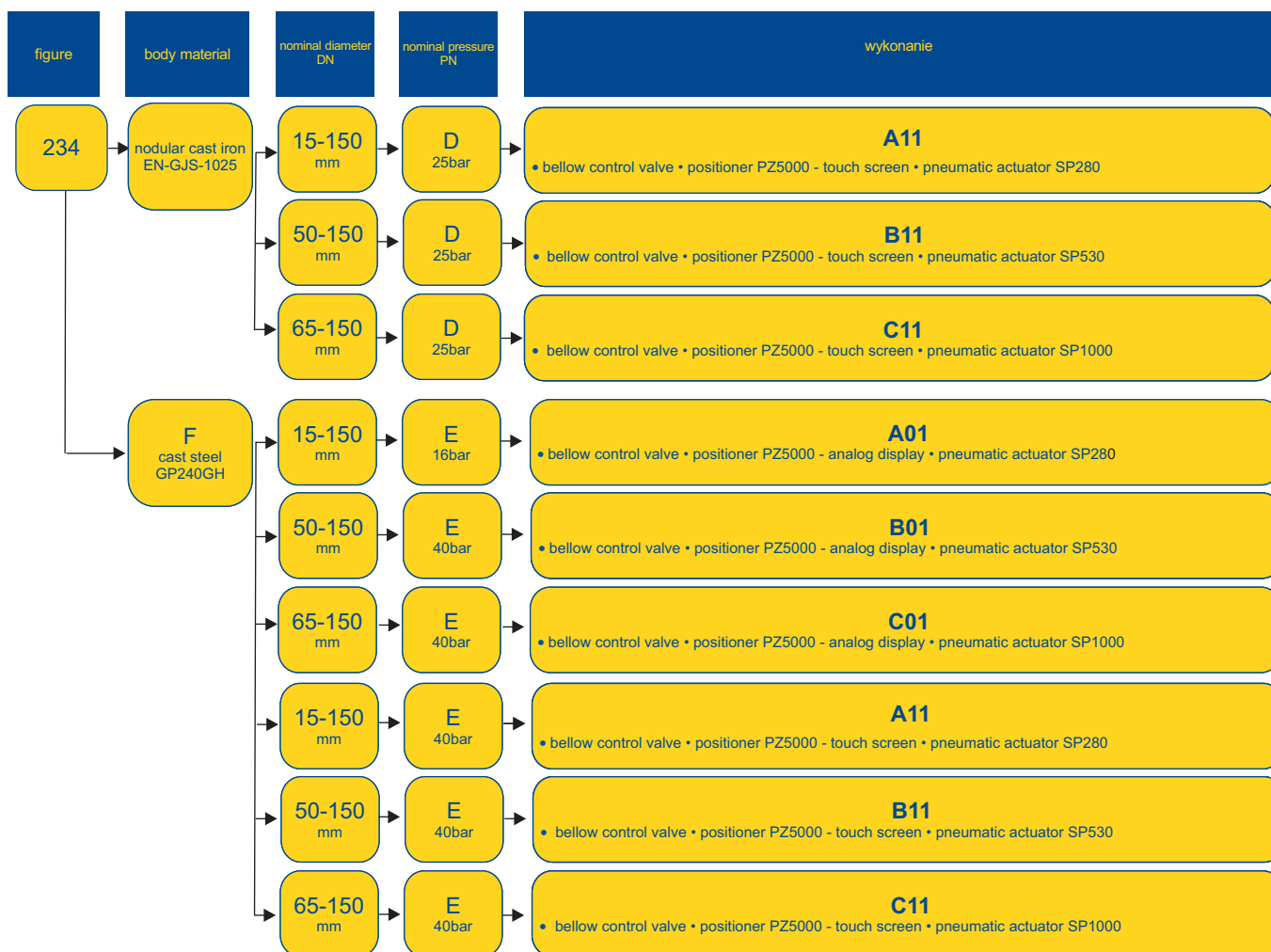
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**TYPES**

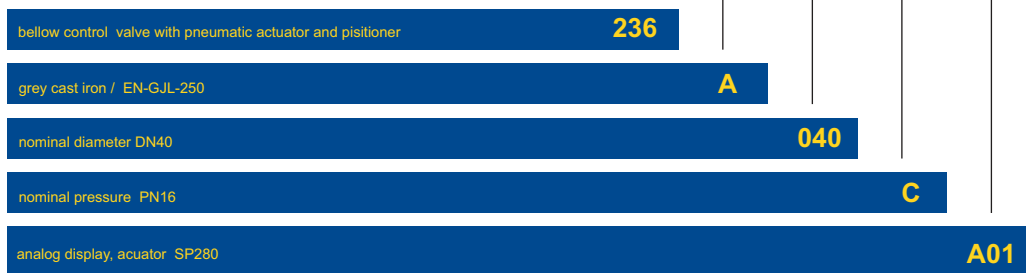


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**ORDER EXAMPLE**



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