

FIG.221

 **BALANCING VALVE zSTA**








Body material	Nominal pressure	Nominal diameter	Max. temperature
H Brass	D 25 bar	DN 15-50	120°C

**FEATURES**

- high tightness (leakproofness class - A acc. to EN – 12266-1)
- high reliability measurement of differential pressure at calibrated Venturi orifice Kvs
- ergonomic handwheel with exact setting scale
- environment-friendly
- setting lock possibility
- face to face dimension (M4 series acc. to DIN 3202)

**APPLICATION**

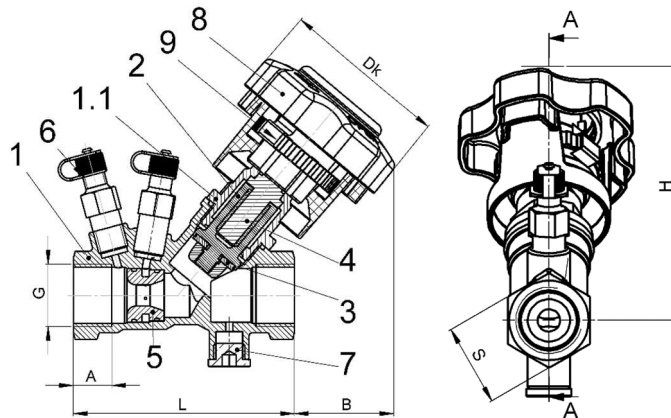
industries			
	HEATING	REFRIGERATION AND AIR CONDITIONING	
media			
	GLYCOL	INDUSTRIAL WATER	NEUTRAL FLUIDS

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**FIG.221**

**MATERIALS, DIMENSIONS**



Body material		H
Type		50, 51, 52, 53, 54
1	Body	CuZn36Pb2As
1.1	Bonnet	CuZn36Pb2As
2	Disc	PPS
3	Disc gasket	EPDM
4	Stem	CuZn36Pb2As
5	Venturi nozzles	PPS
6	Pressure tap	CuZn36Pb2As + EPDM
7	Plug with gasket	Brass + EPDM from DN15
8	Handwheel	Polyamide
9	Opening limiter	Polyamide
<b>Max. temperatura</b>		<b>120°C</b>

DN	15ULF	15LF	15	20	25	32	40	50	50 HF
<b>Body material</b>	<b>H</b>								
<b>L (mm)</b>	85			95	105	120	130	150	
<b>Dk (mm)</b>	72								
<b>H (mm)</b>	104			104	106	129	131	136	
<b>S (mm)</b>	27			33	41	49	56	68	
<b>G</b>	G 1/2			G 3/4	G 1	G 1 1/4	G 1 1/2	G 2	
<b>B (mm)</b>	55			45	40	46	42	33,5	
<b>A (mm)</b>	15			16,5	19,5	21,4	21,4	25,7	
<b>K<sub>sig</sub> (m<sup>3</sup>/h)</b>	0,25	0,63	1,60	3,20	5,75	12,15	18,85	31,75	38,10
<b>Weight (kg)</b>	0,64			0,70	0,90	1,70	1,90	2,40	

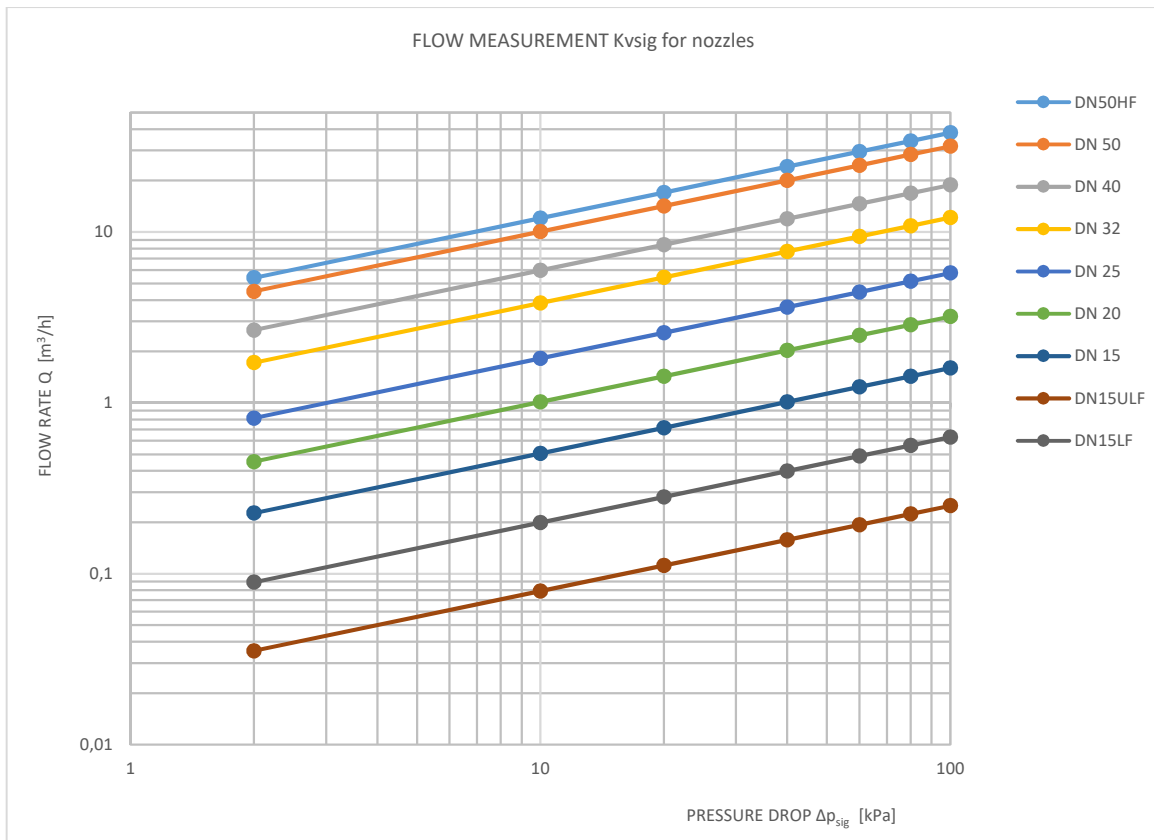
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**FIG.221**

**FLOW MEASUREMENT**

DN	15	15ULF	15LF	20	25	32	40	50	50 HF
Type	54	50	51	54				52;54	53
Body material	H								
Handwheel turns	Valve flow Kv coefficient [m <sup>3</sup> /h]								
1,0	0,26	0,088	0,100	0,59	0,70	1,76	2,67	-	-
1,5	0,45	0,100	0,111	0,88	1,10	2,49	3,73	5,00	7,48
2,0	0,75	0,110	0,128	1,34	1,78	3,69	5,23	6,69	10,16
2,5	1,07	0,185	0,195	2,05	2,82	5,75	7,72	9,47	13,20
3,0	1,41	0,255	0,303	2,65	3,76	7,56	10,05	12,47	20,18
3,5	1,57	0,314	0,423	2,95	4,59	8,94	12,25	15,90	23,11
4,0	1,63	0,369	0,623	3,10	5,15	9,94	14,16	19,04	25,72
4,5	1,66	0,388	0,916	3,20	5,57	10,65	16,04	21,91	28,10
5,0	1,67	0,391	0,980	3,25	5,83	11,13	17,25	24,43	30,15
5,5	-	-	-	-	-	-	-	-	30, 8 5
5,9	-	-	-	-	-	-	-	-	32,00

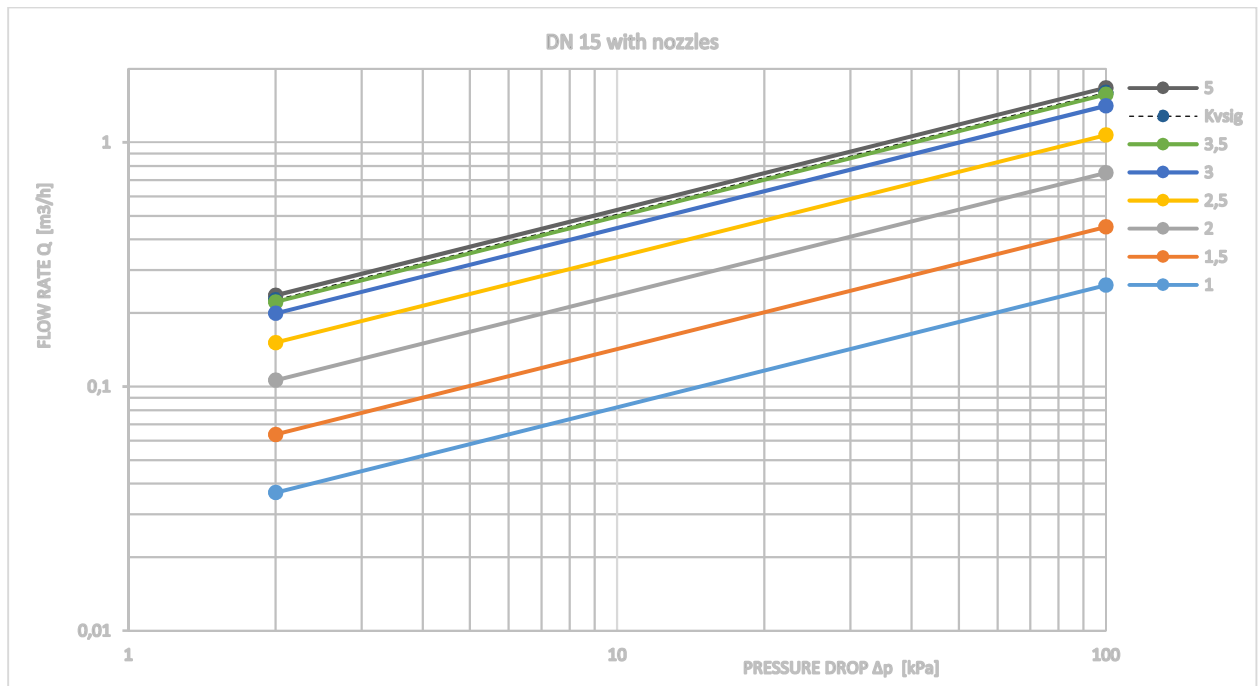


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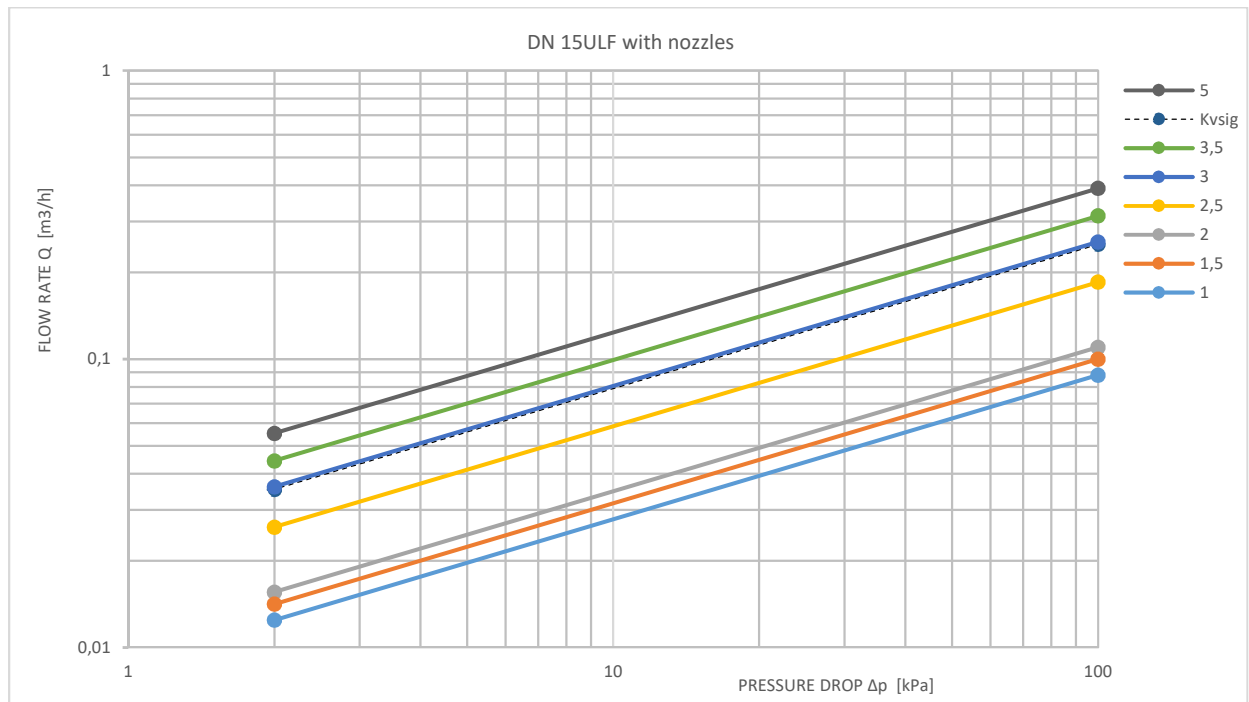
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**FIG.221**

**HYDRAULIC CHARACTERISTIC DN 15 (CuZn36Pb2As)**



**HYDRAULIC CHARACTERISTIC DN 15ULF (CuZn36Pb2As)**

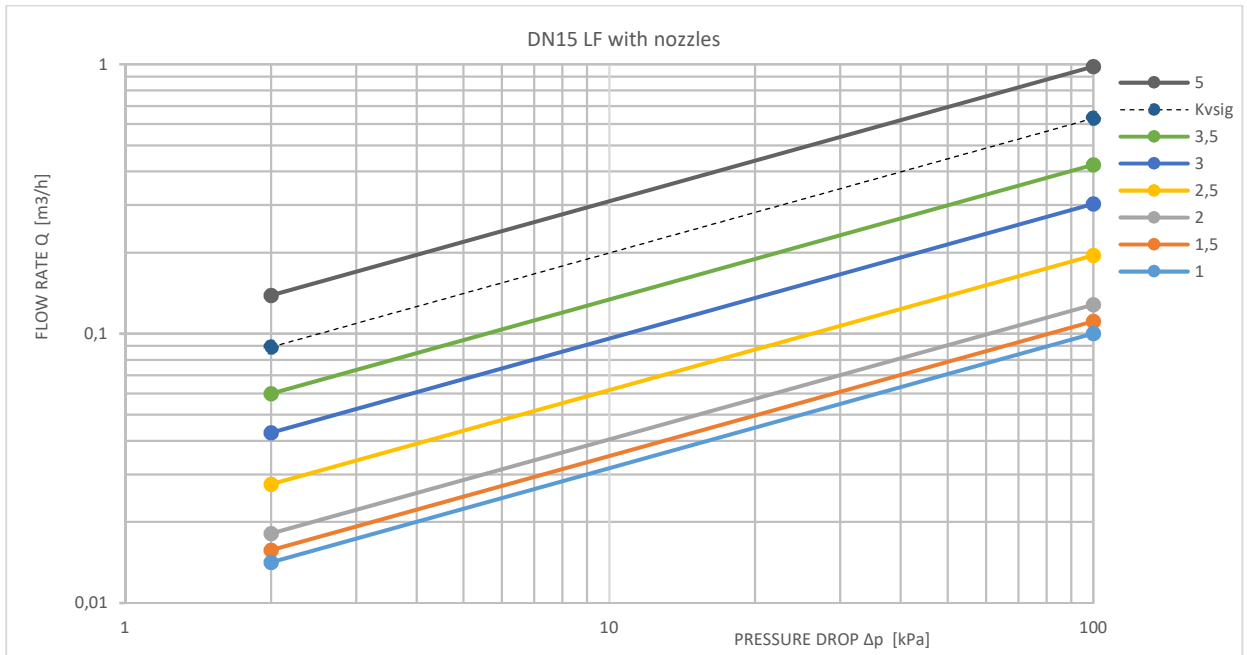


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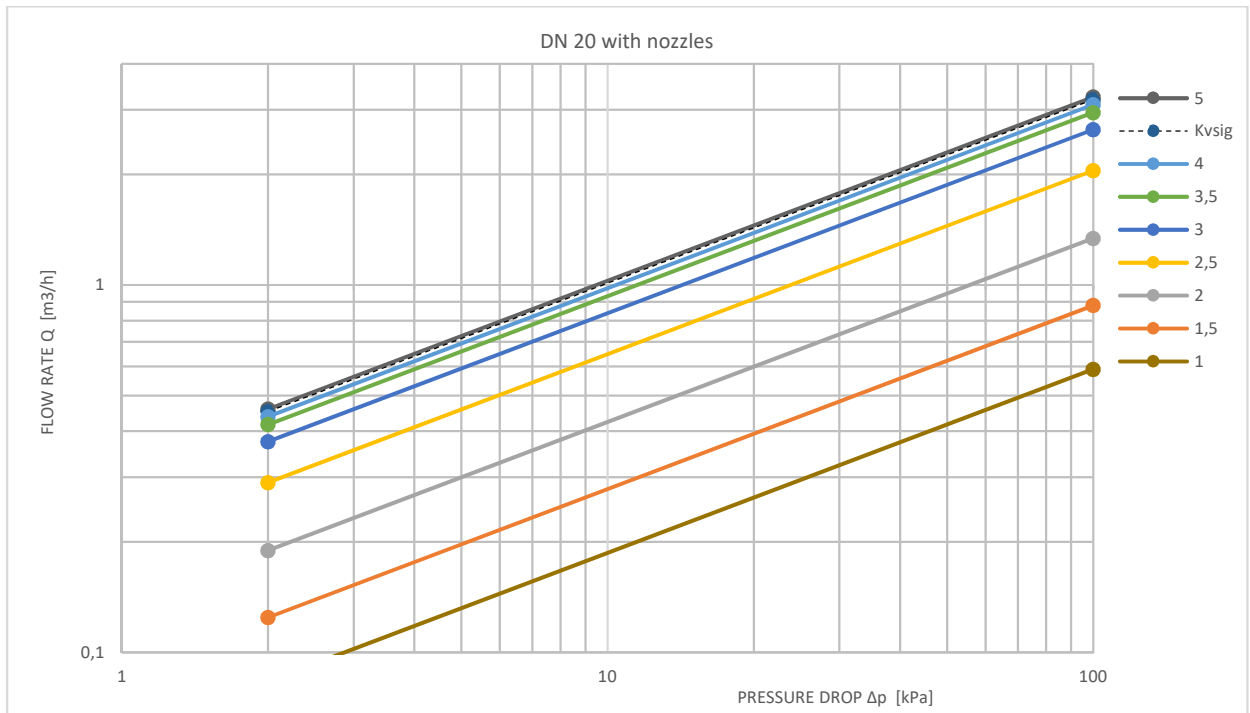
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**FIG.221**

**HYDRAULIC CHARACTERISTIC DN 15LF (CuZn36Pb2As)**



**HYDRAULIC CHARACTERISTIC DN 20 (CuZn36Pb2As)**

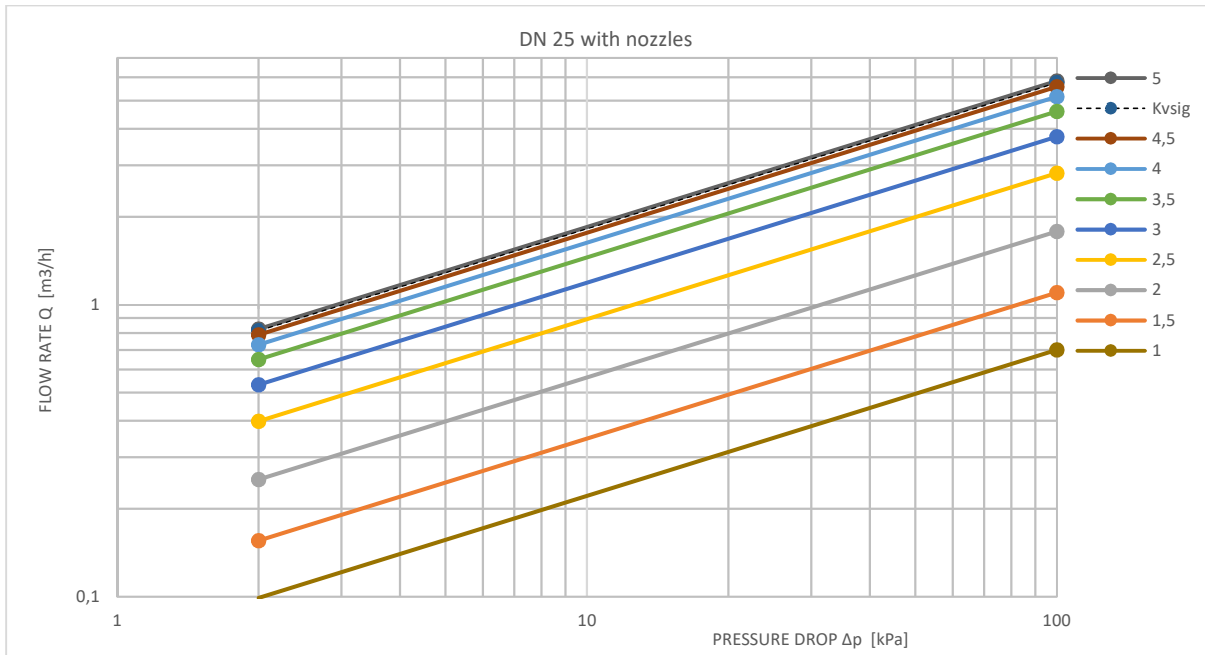


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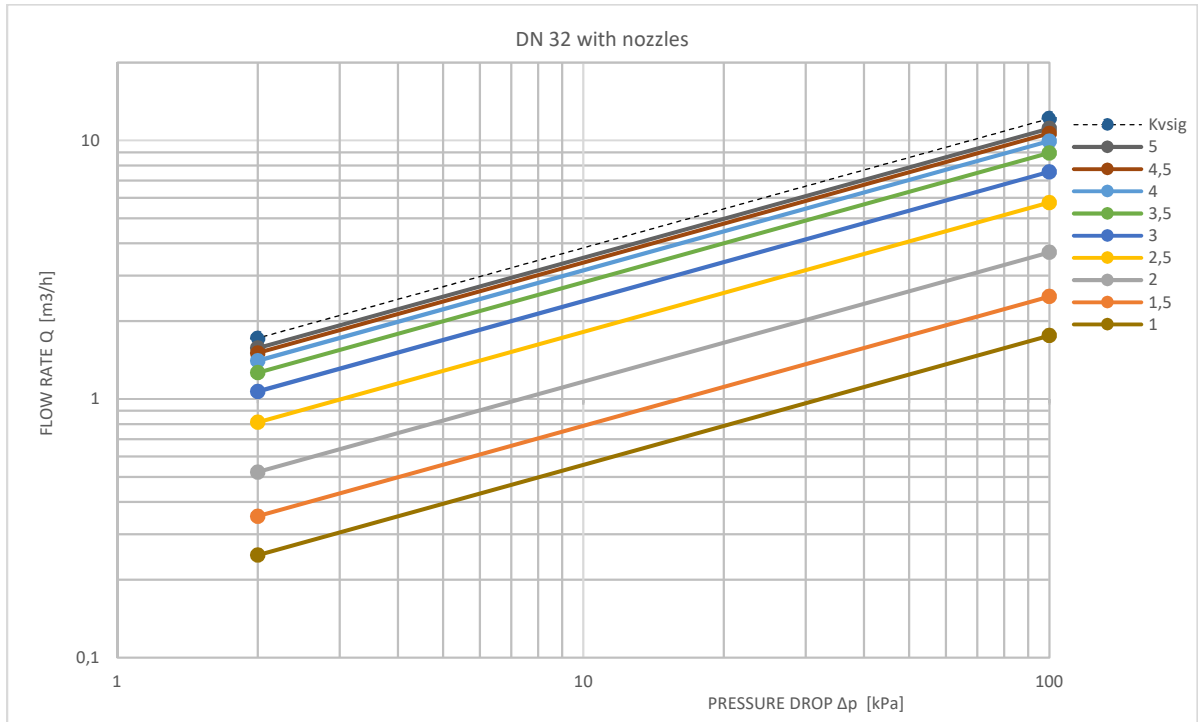
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**FIG.221**

**HYDRAULIC CHARACTERISTIC DN 25 (CuZn36Pb2As)**



**HYDRAULIC CHARACTERISTIC DN 32 (CuZn36Pb2As)**

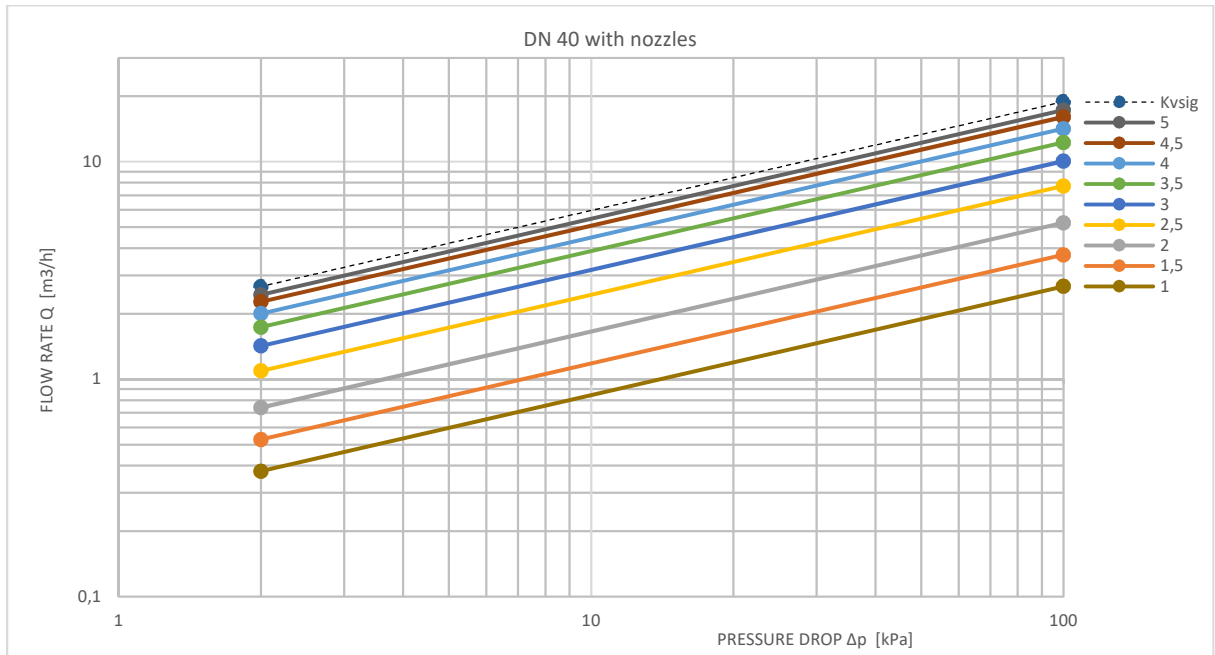


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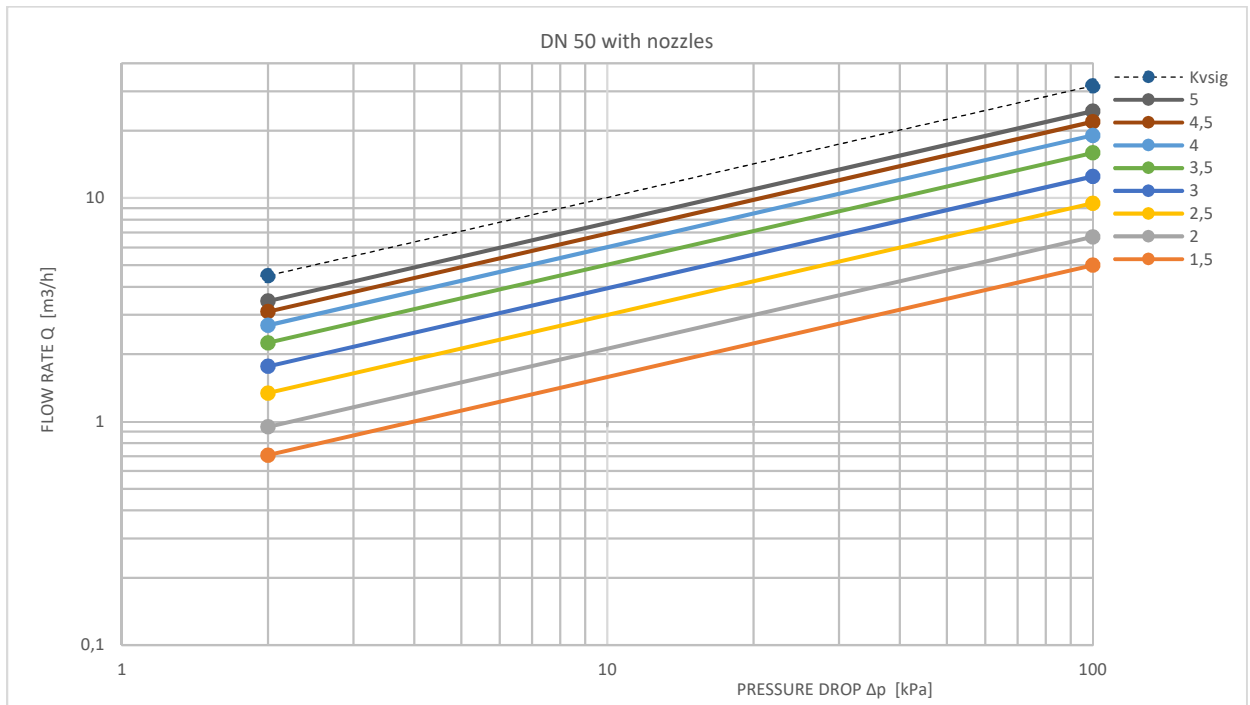
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**FIG.221**

**HYDRAULIC CHARACTERISTIC DN 40 (CuZn36Pb2As)**



**HYDRAULIC CHARACTERISTIC DN 50 (CuZn36Pb2As)**

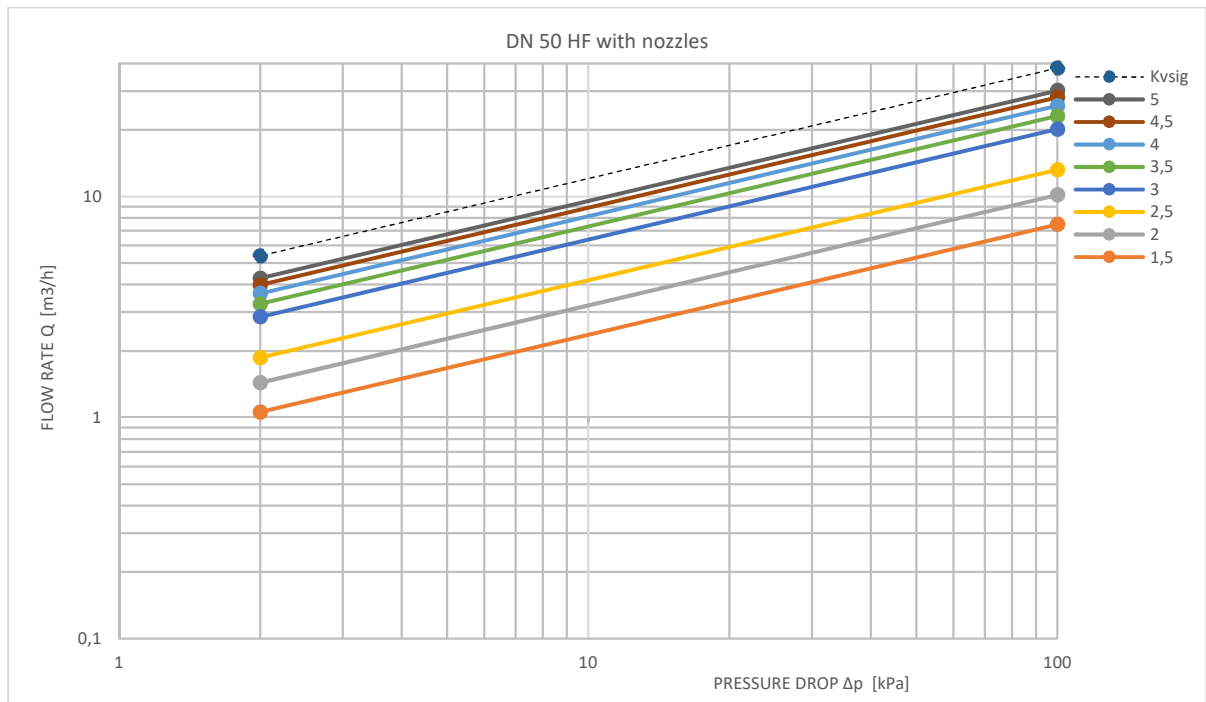


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**FIG.221**

**HYDRAULIC CHARACTERISTIC DN 50 HF (CuZn36Pb2As)**



**PRESSURE-TEMPERATURE RATINGS**

Series M4 Acc. DIN 3202-4	PN		-10÷100°C	110°C	120°C
	CuZn36Pb2As	25	bar	25	

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**FIG.221**

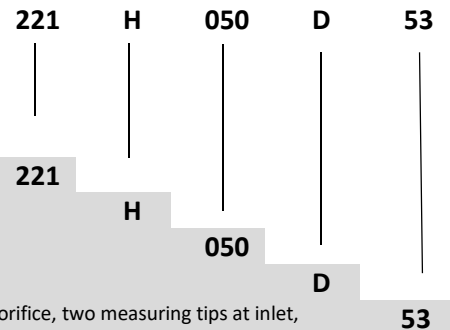
**TYPE**

Figure	Body material	Nominal diameter	Nominal pressure	Type
221	H Brass CuZn36Pb2As	15 mm	D 25 bar	<b>50</b> non-rising stem - brass, adjustment disc of composite material finished with EPDM, ultra low flow measuring orifice, two measuring tips at inlet, plug at outlet, knob with opening limiter
		15 mm	D 25 bar	<b>51</b> non-rising stem - brass, adjustment disc of composite material finished with EPDM, low flow measuring orifice, two measuring tips at inlet, plug at outlet, knob with opening limiter
		15-50 mm	D 25 bar	<b>52</b> non-rising stem - brass, adjustment disc of composite material finished with EPDM, standard measuring orifice, two measuring tips at inlet, drain tap at outlet, knob with opening limiter
		50 mm	D 25 bar	<b>53</b> non-rising stem - brass, adjustment disc of composite material finished with EPDM, high flow measuring orifice, two measuring tips at inlet, plug at outlet, knob with opening limiter
		15-50 mm	D 25 bar	<b>54</b> non-rising stem - brass, adjustment disc of composite material finished with EPDM, standard measuring orifice, two measuring tips at inlet, plug at outlet, knob with opening limiter

**ORDERING**

Figure	Body material	Nominal diameter	Nominal pressure	Type
221	H Brass CuZn36Pb2As	50 mm	D 25 bar	<b>53</b> non-rising stem - brass, adjustment disc of composite material finished with EPDM, high flow measuring orifice, two measuring tips at inlet, plug at outlet, knob with opening limiter

**Order example acc. index**



Balancing valves , ends threaded, form Y-type  
 Brass CuZn36Pb2As  
 Nominal diameter (mm)  
 Nominal pressure PN 25  
 Non-rising stem - brass, adjustment disc of composite material finished with EPDM, high flow measuring orifice, two measuring tips at inlet, plug at outlet, knob with opening limiter

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