

**SPN-V GALVA**

- Grilles for circular ducts
- Galvanized steel
- Galvanized natural finish
- Vertical blades



## Single deflection grilles for circular ducts type SPN-V GALVA

Single deflection grille with adjustable blades made of galvanized steel

### Brand

- Cairox

### Application

- For air supply and exhaust in ventilation and air conditioning systems.

### Material

- Galvanized steel

### Colour

- Galvanized steel
- Other colours available upon request

### Composition

- Single row of vertical deflection blades (distance between blades = 20 mm)

### Mounting

- Visible screw mounting on circular duct

### Accessories

- Volume control damper **DWN**

### Text for tender

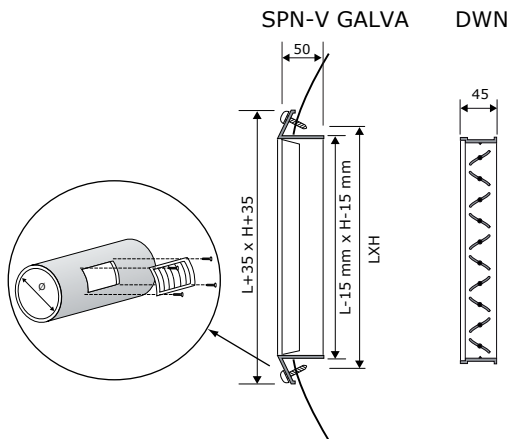
- The grilles for air supply or exhaust have individually adjustable blades to regulate the direction of the air flow pattern. They are made of galvanized steel natural finish with a single deflection and are supplied with a volume control damper.
- **Cairox** Type **SPN-V GALVA+DWN**

**Order example**■ **SPN-V GALVA, 400, 100 + DWN**

Explanation

**SPN-V GALVA** = Grille**400** = Length**100** = Height

Accessories (Optional)

**DWN** = Volume damper

Quick selection															
SPN-V	LxH	200x75	200x100	300x75	400x75 300x100	500x75 400x100	600x75 300x150	500x100	800x75 400x150 600x100	800x100 500x150 400x200	600x150	1000x100 500x200	800x150 600x200	1000x150 800x200	1000x200
Q	Ak	0.0086	0.0121	0.0139	0.0196	0.0256	0.0319	0.0361	0.0449	0.0634	0.0729	0.0827	0.1029	0.1343	0.1894
100	Vk	3.2	2.3	2	1.4	1.1									
	X0,25	3.9	3.7	3.6	3.4	3.3									
	Ps	8	4	3	2	1									
	Lw(A)	23	<20	<20	<20	<20									
150	Vk	4.8	3.4	3	2.1	1.6	1.3	1.2							
	X0,25	4.6	4.3	4.2	3.9	3.8	3.6	3.6							
	Ps	18	9	7	3	2	1	1							
	Lw(A)	36	26	22	<20	<20	<20	<20							
200	Vk	6.5	4.6	4	2.8	2.2	1.7	1.5	1.2						
	X0,25	5.4	4.9	4.8	4.4	4.2	4	3.9	3.8						
	Ps	32	16	12	6	4	2	2	1						
	Lw(A)	45	35	31	22	<20	<20	<20	<20						
250	Vk	5.7	5	5	3.5	2.7	2.2	1.9	1.5	1.1					
	X0,25	5.6	5.4	5	4.7	4.4	4.3	4.2	3.9						
	Ps	26	19	10	6	4	3	2	1						
	Lw(A)	42	38	29	21	<20	<20	<20	<20						
300	Vk	6.9	6	4.3	3.3	2.6	2.3	1.9	1.3	1.1	1				
	X0,25	6.2	6	5.5	5.1	4.9	4.7	4.5	4.2	4.1	4				
	Ps	37	28	14	8	5	4	3	1	1	1				
	Lw(A)	48	44	34	27	21	<20	<20	<20	<20	<20				
400	Vk		8	5.7	4.3	3.5	3.1	2.5	1.8	1.5	1.3	1.1			
	X0,25		7.2	6.5	6	5.7	5.5	5.2	4.8	4.6	4.5	4.3			
	Ps		50	25	15	9	7	5	2	2	1	1			
	Lw(A)		53	43	36	30	26	<20	<20	<20	<20	<20			
500	Vk			7.1	5.4	4.4	3.8	3.1	2.2	1.9	1.7	1.3	1		
	X0,25			7.5	6.9	6.5	6.3	5.9	5.4	5.2	5.1	4.8	4.5		
	Ps			39	23	15	11	7	4	3	2	1	1		
	Lw(A)			51	43	37	33	27	<20	<20	<20	<20	<20		
600	Vk				6.5	5.2	4.6	3.7	2.6	2.3	2	1.6	1.2		
	X0,25				7.8	7.3	7	6.6	6	5.8	5.6	5.3	5		
	Ps				33	21	17	11	5	4	3	2	1		
	Lw(A)				49	42	39	33	23	<20	<20	<20	<20		
800	Vk				7	6.2	4.9	3.5	3	2.7	2.2	1.7	1.2		
	X0,25				8.9	8.6	8	7.2	6.9	6.6	6.2	5.8	5.3		
	Ps				38	29	19	9	7	6	4	2	1		
	Lw(A)				52	48	42	32	28	25	<20	<20	<20		
1000	Vk					7.7	6.2	4.4	3.8	3.4	2.7	2.1	1.5		
	X0,25					10.1	9.4	8.4	8	7.7	7.2	6.7	6		
	Ps					46	30	15	11	9	6	3	2		
	Lw(A)					55	49	39	35	32	25	<20	<20		
1200	Vk						7.4	5.3	4.6	4	3.2	2.5	1.8		
	X0,25						10.8	9.6	9.1	8.8	8.2	7.5	6.8		
	Ps						43	21	16	13	8	5	2		
	Lw(A)						55	45	41	37	31	24	<20		
1400	Vk							6.1	5.3	4.7	3.8	2.9	2.1		
	X0,25							10.8	10.3	9.8	9.1	8.4	7.5		
	Ps							29	22	17	11	6	3		
	Lw(A)							50	46	42	36	28	<20		
1600	Vk							7	6.1	5.4	4.3	3.3	2.3		
	X0,25							12	11.4	10.9	10.1	9.2	8.2		
	Ps							38	29	22	14	8	4		
	Lw(A)							54	50	46	40	33	23		
1800	Vk							7.9	6.9	6	4.9	3.7	2.6		
	X0,25							13.2	12.5	11.9	11	10.1	8.9		
	Ps							48	37	28	18	11	5		
	Lw(A)							58	54	50	44	36	27		
2000	Vk								7.6	6.7	5.4	4.1	2.9		
	X0,25								13.6	13	12	10.9	9.7		
	Ps								45	35	23	13	7		
	Lw(A)								57	54	47	40	30		
3000	Vk												6.2	4.4	
	X0,25												15.2	13.3	
	Ps												30	15	
	Lw(A)												53	43	
4000	Vk													5.9	
	X0,25													16.9	
	Ps													27	
	Lw(A)													52	

**Symbols and specifications**

- LxH = Width L and height H in mm
- Q = Air volume in m<sup>3</sup>/h
- Ak = Effective surface (free area) in m<sup>2</sup>
- Vk = Average effective velocity through the grille in m/s
- X0.25 = Horizontal throw in m at an endvelocity Vt of 0.25 m/s
- Ps = Static pressure loss given in Pa
- Lw(A) = Acoustic power in dB(A)

- The throw X0.25 is given without deflection of the airstream at an end velocity of 0.25m/s. The distances are given for a smooth ceiling and installation distance of the center of the grille at 300mm from the ceiling surface. When mounted at a distance of 400 to 600 mm from the ceiling, a horizontal deflection towards the ceiling of 15° is advised. When mounted at a distance larger than 600mm from the ceiling, the throw distance X0.25 will be smaller than mentioned due to the missing coanda effect. In these cases and for all other special requirements, please contact our engineering office.
- The values are given for isothermal supply air. Throw distances for cooling conditions at -11K can be calculated by dividing the X0.25 values with factor 1.1. For heating purposes at Dt of +11K a multiplier of 1.1 should be applied to the given X0.25 value.
- Advised mounting distance between centers of multiple grilles in the same wall should be greater than 1/3 of the throw length X0.25 (without spread)

- The pressure losses  $P_s$  are given for grilles without damper or with fully opened damper.
- The acoustic powers  $L_w(A)$  are given for grilles without damper or with fully opened damper without room attenuation. Acoustic powers below 20dB(A) are mentioned as "<20" in the tables.

	Dimensions	
	Ø[mm]	
	min	max
200 x 75	150	250
300 x 75		
400 x 75		
500 x 75		
600 x 75		
800 x 75		
200 x 100	300	450
300 x 100		
400 x 100		
500 x 100		
600 x 100		
800 x 100		
1000 x 100	500	800
300 x 150		
400 x 150		
500 x 150		
600 x 150		
800 x 150		
1000 x 150	900	1200
400 x 200		
500 x 200		
600 x 200		
800 x 200		
1000 x 200		

### Placement instruction

