

SPN-2 GALVA

- Grilles for circular ducts
- Galvanized steel
- Galvanized natural finish
- Horizontal and vertical blades

Accessories

- **DA**
Straight volume control dampers for duct grilles
- **DF**
Inclined volume control dampers for duct grilles

Double deflection grilles for round ducts type SPN-2 GALVA

Double deflection grille with adjustable blades made of galvanized steel

Application

- For air supply and exhaust in ventilation and air conditioning systems. They are used in particular for mounting on round ducts.

Material

- Galvanized steel

Composition

- Double row of deflection blades with vertical blades in front
- Frame provided with airtight strip

Mounting

- Visible screw mounting on round duct

Accessories

- Inclined volume control damper **DF**
- Straight volume control damper **DA**

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 of the double deflection type for round ducts and are supplied with a volume control damper.
- Galvanized natural finish
- **ATC** Type **SPN-2 GALVA+DA** or **SPN-2 GALVA+DF**

Order example

- **SPN 2 GALVA, 425, 75 + DF**

Explanation

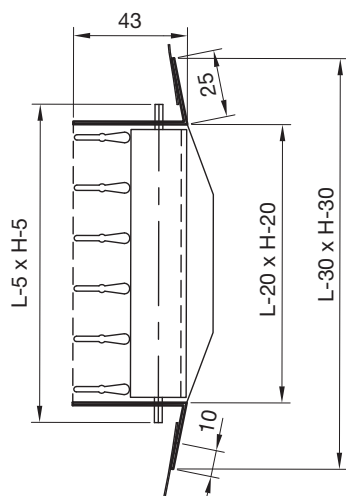
SPN 2 GALVA = Grille type

425 = Length

75 = Height

Accessories (Optional)

DF = Volume damper

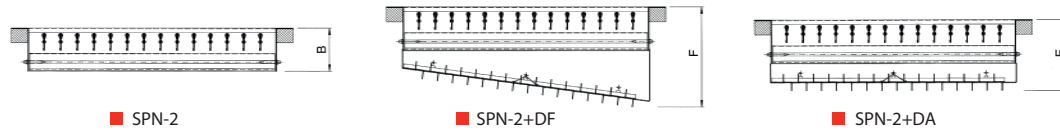

Quick selection

Q	LXH	225x75	325x75	425x75	225x125	525x75	625x75	325x125	425x125	525x125	625x125	825x125	425x225	1025x125	525x225	625x225	825x225	1025x225	
	Aeff	0.0069	0.0099	0.0130		0.0160	0.0190		0.0250	0.0310	0.0370	0.0490		0.0610		0.0730	0.0970	0.1220	
50	veff	2	1.40																
	Lth	3.70	3																
	Ps	2.70	1.30																
	Lw	<20	<20																
80	veff	3.20	2.20	1.70															
	Lth	5.90	4.90	4.30															
	Ps	6.90	3.30	1.90															
	Lw	<20	<20	<20															
100	veff	4	2.80	2.10	1.70														
	Lth	7.30	6.10	5.30	4.80														
	Ps	10.80	5.10	3	2														
	Lw	24.36	<20	<20	<20														
150	veff	6.10	4.20	3.20	2.60	2.20	1.70												
	Lth	11	9.10	8	7.20	6.60	5.80												
	Ps	24.20	11.60	6.80	4.50	3.20	1.80												
	Lw	34.22	27.02	21.78	<20	<20	<20												
200	veff	8.10	5.60	4.30	3.50	2.90	2.20	1.80											
	Lth	14.60	12.20	10.60	9.60	8.80	7.70	6.90											
	Ps	43	20.60	12.10	8	5.60	3.30	2.10											
	Lw	41.21	34.01	28.78	24.72	21.36	<20	<20											
250	veff		7	5.30	4.30	3.70	2.80	2.20	1.90										
	Lth		15.20	13.30	12	11	9.60	8.60	7.90										
	Ps		32.20	18.80	12.40	8.80	5.10	3.30	2.30										
	Lw		39.44	34.20	30.15	26.79	21.42	<20	<20										
300	veff			6.40	5.20	4.40	3.30	2.70	2.30	1.70									
	Lth			16	14.40	13.20	11.50	10.30	9.50	8.20									
	Ps			27.10	17.90	12.70	7.30	4.80	3.30	1.90									
	Lw			38.64	34.58	31.22	25.86	21.65	<20	<20									
400	veff				6.90	5.80	4.40	3.60	3	2.30	1.80								
	Lth				19.20	17.60	15.40	13.80	12.60	11	9.80								
	Ps				31.80	22.60	13	8.50	6	3.40	2.20								
	Lw				41.58	38.22	32.86	28.65	25.19	<20	<20								
600	veff						6.70	5.40	4.50	3.40	2.70	2.30				2.30			
	Lth						23	20.70	18.90	16.50	14.70	13.50				13.50			
	Ps						29.30	19.10	13.40	7.60	4.90	3.40				3.40			
	Lw						42.72	38.51	35.05	29.56	25.28	21.77				21.77			
800	veff								6	4.50	3.60	3	2.30				2.30		
	Lth									25.20	21.90	19.70	18	15.60			15.60		
	Ps									23.80	13.60	8.80	6.10	3.50			3.50		
	Lw									42.05	36.56	32.28	28.77	23.22			23.22		
1000	veff									5.70	4.60	3.80	2.90	2.30					
	Lth									27.40	24.60	22.50	19.50	17.40			19.50	17.40	
	Ps									21.20	13.70	9.60	5.40	3.40			3.40		
	Lw									41.99	37.71	34.20	28.64	24.16			28.64	24.16	
1200	veff										5.50	4.60	3.40	2.70					
	Lth										29.50	27	23.40	20.90			23.40	20.90	
	Ps										19.70	13.80	7.80	4.90			7.80	4.90	
	Lw										42.14	38.63	33.08	28.60			33.08	28.60	
1600	veff												4.60	3.60					
	Lth																31.20	27.80	
	Ps																13.90	8.80	
	Lw																40.07	35.59	
2000	veff																		4.60
	Lth																		34.80
	Ps																		13.70
	Lw																		41.02

Symbols and specifications

- Values at ceiling height of 2.7m
- Max. height to ceiling = 300mm
- Temperature difference Dt = -10K
- Lth 0.25 = Horizontal throw in m at vt = 0.25m/s
- Ps = Static pressure loss in Pa
- Lw = Acoustic power in dB(A)

- Q_v = Air Volume in m^3/h
- A_{eff} = Effective area in m^2
- v_{eff} = Effective velocity between the vanes in m/s
- Type = Hole L x H to be made in duct
- **Values for grill without damper**

Installation drawing


■ SPN-2

■ SPN-2+DF

■ SPN-2+DA

Dimensions

	B [mm]	E [mm]	F [mm]	Ø [mm]	
				min	max
425 x 75	43	70	105	160	400
525 x 75	43	70	115	160	400
625 x 75	43	70	125	160	400
425 x 125	52	70	115	315	900
525 x 125	52	80	125	315	900
625 x 125	52	80	135	315	900
425 x 225	61	80	125	630	1400
525 x 225	61	90	135	630	1400
625 x 225	61	90	140	630	1400
825 x 225	61	90	140	630	1400
1025 x 225	61	90	140	630	1400

Accessories


- **DA** Straight volume control dampers for duct grilles

- **DF** Inclined volume control dampers for duct grilles

- Flat volume control dampers
- Galvanized steel
- Galvanized natural finish



Straight volume control dampers for duct grilles type DA

Straight volume control dampers for air exhaust on SPN and SDN

Application

- Straight volume control damper for the regulation of the air volume on the **SPN** and **SDN** grilles.

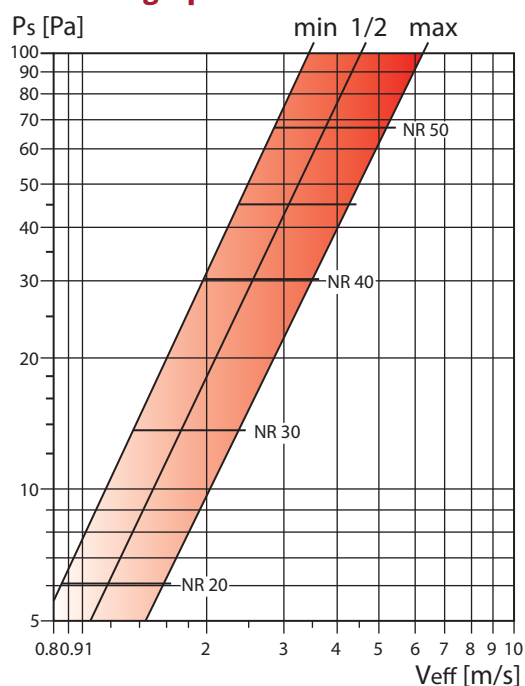
Material

- Galvanized steel

Mounting

- Invisible on the back of the grille with clips

Selection graph



Symbols and specifications

- The graph presents sound level NR as sound power level (without room attenuation) for the combination of grille and damper DF. The value of V_{eff} on the graph is that for the grille without damper.
- Ps = Pressure loss in Pa
- V_{eff} = Effective velocity of the corresponding grill (see selection tables SPN1, SPN2, SDN-1 and SDN-2)

- Min, 1/2, Max = Opening of the damper
- NR = Noise rate without room attenuation

Order example

- DA, 425, 75

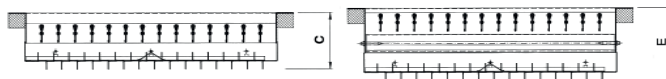
Explanation

DA = Volume control damper type

425 = Length

75 = Height

Installation drawing



■ SPN-1/SDN-1+DA

■ SPN-2/SDN-2+DA

Dimensions

	C [mm]	E [mm]	Ø [mm]	
			min	max
225 x 75	50	70	160	400
325 x 75	50	70	160	400
425 x 75	50	70	160	400
525 x 75	50	70	160	400
625 x 75	50	70	160	400
225 x 125	50	70	315	900
325 x 125	50	70	315	900
425 x 125	60	70	315	900
525 x 125	60	80	315	900
625 x 125	60	80	315	900
425 x 225	70	80	630	1400
525 x 225	70	90	630	1400
625 x 225	70	90	630	1400
825 x 225	70	90	630	1400
1025 x 225	70	90	630	1400