

DISC VALVE TVPM - TVOM





These technical specifications state a row of manufactured sizes and models of disk valves (further only valves) TVOM, TVPM. It is valid for manufacture, designing, ordering, delivery, assembly and operation.

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II. GENERAL INFORMATION

- **1. Description**
 - **1.1.** Valves are end parts of ventilation or air conditioning systems. Valves TVPM are intended for air supply and TVOM are intended for air outlet. Amount of supplied or outlet air could be regulated by rotating disc of valve body. After taking out the valve body from the casing, the set upped position "s" is ensured by means of the check nut, and the valve can again be set into the casing. The bodies of the valves are set in casing and secured by bayonet closures.
 - **1.2.** Valves are designed for macroclimatic areas with mild climate according to EN 60 721-3-3.
 - **1.3.** Nozzles are suitable for systems without abrasive, chemical and adhesive particles.
 - **1.4.** If is not noticed other way, all dimensions and weight are in millimeters and kilograms.
- 2. Design
 - **2.1.** Valves can be delivered in the following versions:
 - for air supply TVPM
 - for air outlet TVOM

Fig. 1



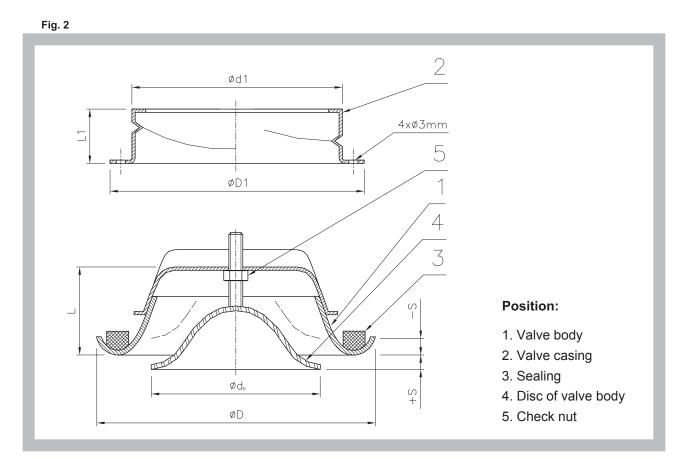
3. Dimensions, weights

3.1. Valve dimensions and weights

Tab. 3.1.1. Dimensions and weights

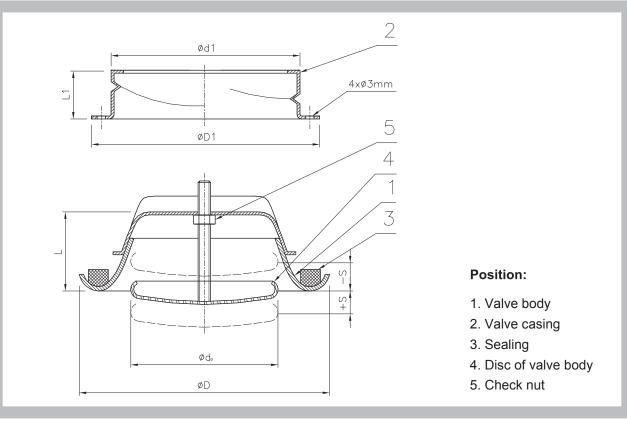
Size	øD	øD ₁	ød₁	ødp	ødo	L	L1	Set upped possition with		Weight [kg]		
				-	•				TVPM	Τνομ	TVPM	TVOM
8	30	115	105	79	80	60	42	50	9 to -3	12 to -15	0,150	0,125
10	00	138	125	99	93	75	40	50	10 to -3	10 to -10	0,190	0,170
12	25	164	150	124	115	99	46	50	15 to -7	9 to -17	0,270	0,230
1	50	202	175	149	135	118	50	50	15 to -5	10 to -15	0,390	0,350
10	60	211	185	159	148	129	54	50	15 to -10	5 to -20	0,420	0,380
20	00	248	225	199	196	157	63	50	20 to -3	20 to -25	0,590	0,510

3.2. Valve for air supply - TVPM



3.3. Valve for air outlet - TVOM





4. Placement and Assembly

- **4.1.** Valves are installed in ceilings, walls and other constructions.
- **4.2.** Valves have to be connected to straight duct section with length 250 mm to achieve equal flow through valve. It is valid for air supply and air outlet.

III. TECHNICAL DATA

5. Basic parameters

5.1. Basic data

Ů	[m³.h-1]	volumetric air flow per one valve
S	[mm]	distance of valve disc from zero position
∆pc	[Pa]	pressure loss at ρ = 1,2 kg/m ³
L_{WA}	[dB(A)]	level of acoustic power

Tab. 5.1.1. Valve for air supply - TVPM

Size	80	100	125	150	160	200
Ů _{max} [m³.h⁻¹]	60	90	150	200	200	250

Tab. 5.1.2. Valve for air outlet - TVOM

Size	80	100	125	150	160	200
V _{max} [m³.h⁻¹]	60	90	150	200	200	250

5.2. Pressure loss and sound data

5.2.1. Valve for air supply TVPM

Diagram 5.2.1. TVPM 80

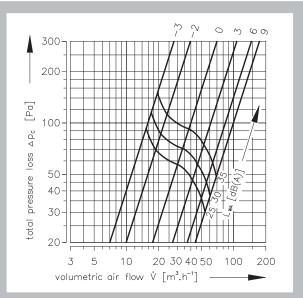


Diagram 5.2.2. TVPM 100

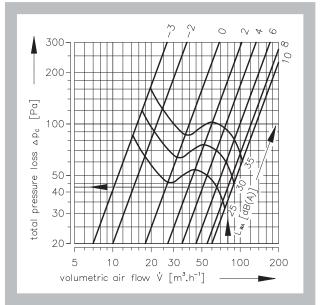
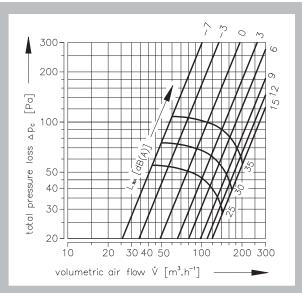
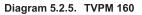
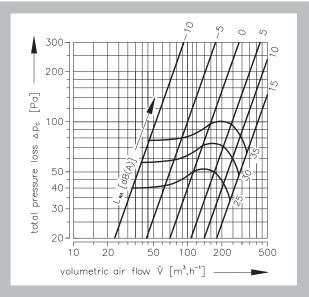
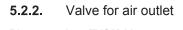


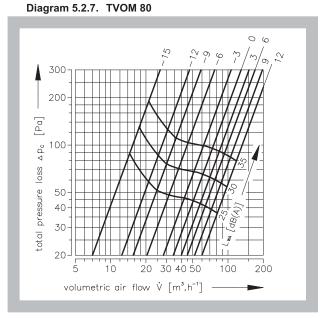
Diagram 5.2.3. TVPM 125













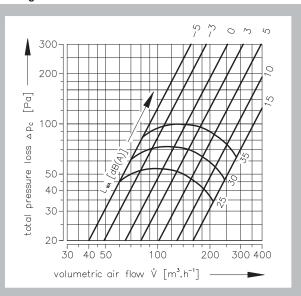
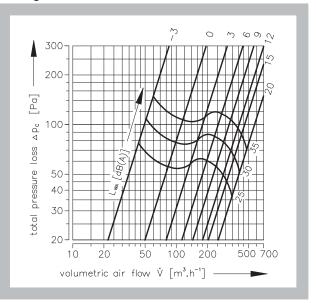
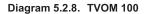


Diagram 5.2.6. TVPM 200





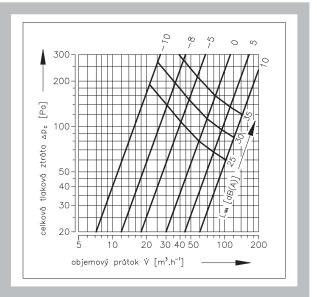




Diagram 5.2.9. TVOM 125

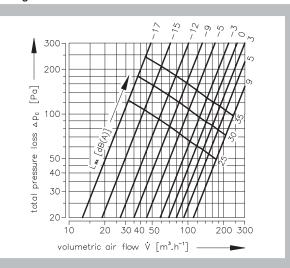
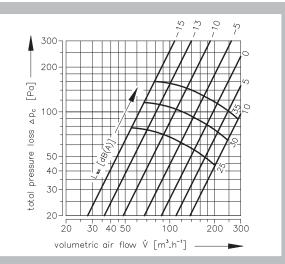
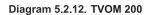


Diagram 5.2.10. TVOM 150





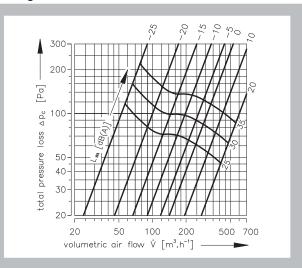


Diagram 5.2.11. TVOM 160

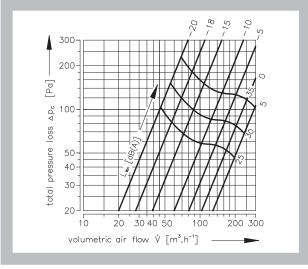


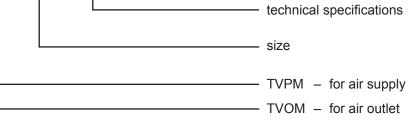
Fig. 4 Example

Given data:	Disc valve TVPM 100 V = 80 m ³ .h ⁻¹ s = 8 mm
Diagram 5.2.2. :	L _{WA} = 28 dB(A) ∆p _c = 43 Pa

IV. ORDERING INFORMATION

6. Ordering key

TVPM 100 TPM 028/03



V. MATERIAL

- 7. Material
 - **7.1.** Body and disc of valve are made of steel sheet covered by white color RAL 9010. Casing of valves are made of galvanized sheet.

VI. INSPECTION, TESTING

8. Inspection, testing

8.1. The appliance is constructed and preset by the manufacturer, its operation is dependent on proper installation and adjustment.

VII. TRANSPORTATION AND STORAGE

9. Logistic terms

- **9.1.** Valves are supplied packed in carton packaging. While transported and stored they must be protected against mechanical damage and weather conditions.
- **9.2.** If no method of take-over is mentioned in the order, handing the goods over to the carrier will be considered as a take-over.
- **9.3.** Valves have to be stored in closed premises, in the environment without aggressive steams, gases and dusts. Temperature range have to be from -5 to +40°C and relative humidity max. 80%.

VIII. ASSEMBLY, ATTENDANCE, MAINTENANCE AND REVISIONS

10. Assembly

10.1. Assembly consists of the valve installing in the duct system.

MANDÍK, a.s. Dobříšská 550 26724 Hostomice Czech Republic Tel.: +420 311 706 706 Fax: +420 311 584 810, 311 584 382 E-Mail: mandik@mandik.cz www.mandik.com

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