



### Applications

- Gas Fluids
- Cogeneration and Incineration Plants, Steel Industry, Concrete Industry, HVAC, Biomass Plants, Power Plants, Pulp and Paper Industry, Chemical Industry, Oil&Gas, Furnaces, Shipbuilding Industry

### Working Conditions

- Maximum Working Temperature up to 1000°C
- Maximum Working Pressure up to 3 bar

### General Characteristics

- ON/OFF or MODULATING Service
- Bore Size from 50 x 50 to 4000 x 4000 according to Customer's specifications
- Face to Face Dimensions according to Customer's specifications
- FLANGED Connections according to Customer's Drawings
- Tightness Class I, II and III according to ANSI B16.104
- Operated by Handlever, Pneumatic or Electric Actuators

### Reference Regulations

- Designed according to EN 12516-1, EN 736-1, EN 736-2, EN 736-3, EN 1349, EN 593, ASME B16.34
- Materials according to EN 1503-1, EN 1503-2
- Materials according to EN 1503-1, EN 1503-2
- Marking according to EN 19

### Compliance Certifications

- Certified Welding Procedures according to UNI EN 287-1
- Certification of Compliance with Machinery Directive 2006/42/CE
- Certification of Compliance with European Directive PED 97/23/CE
- Certification of Compliance with European Directive ATEX 94/9/CE Group 2 Category 3 Zone 2 Gas and 22 Dust

### Coating

For Carbon Steel Valves:

- RAL 5018 epoxy coating for temperatures up to 200°C
- RAL 9500 silicone coating for temperatures up to 600°C

### Test

- Tests carried out according to ANSI B16.104 EN 12266-1, EN 12266-2, EN 60534

### Driving Systems

- Pneumatic and Electric Actuators according to EN 15714-1 EN 15714-2, EN 15714-3
- Actuators End Connections as per EN ISO 5210, EN ISO 5211

### Applicazioni

- Fluidi gassosi
- Cogenerazione ed Impianti di Incenerimento, Industria Siderurgica, Cementifici, HVAC, Impianti a Biomassa, Centrali Termiche, Industria Cartaria, Industria Chimica, Oil&Gas, Forni Industriali, Cantieristica Navale

### Condizioni Operative

- Massima Temperatura d'Esercizio fino a 1000°C
- Massima Pressione d'Esercizio fino a 3 bar

### Caratteristiche Generali

- Servizio ON/OFF o di Modulazione
- Passaggio interno da 50 x 50 a 4000 x 4000 in base alle specifiche del Cliente
- Scartamenti in base alle specifiche del Cliente
- Connessioni FLANGIATE su disegno del cliente
- Classi di Tenuta I, II, e III secondo ANSI B16.104
- Comando manuale o mediante Attuatori Pneumatici o Elettrici

### Riferimenti Normativi

- Progetto in accordo a EN 12516-1, EN 736-1, EN 736-2, EN 736-3, EN 1349, EN 593, ASME B16.34
- Materiali in accordo a EN 1503-1, EN 1503-2
- Materiali in accordo a EN 1503-1, EN 1503-2
- Marcatura in accordo a EN 19

### Certificazioni di Conformità

- Procedimenti di Saldatura certificati secondo UNI EN 287-1
- Certificazione di Conformità alla Direttiva Macchine 2006/42/CE
- Certificazione di Conformità alla Direttiva Europea PED 97/23/CE
- Certificazione di Conformità alla Direttiva Europea ATEX 94/9/CE Gruppo 2 Categoria 3 Zone 2 Gas e 22 Dust

### Verniciatura

Per valvole in acciaio al carbonio:

- verniciatura epossidica RAL 5018 per temperature fino a 200°C
- verniciatura siliconica RAL 9500 per temperature fino a 600°C

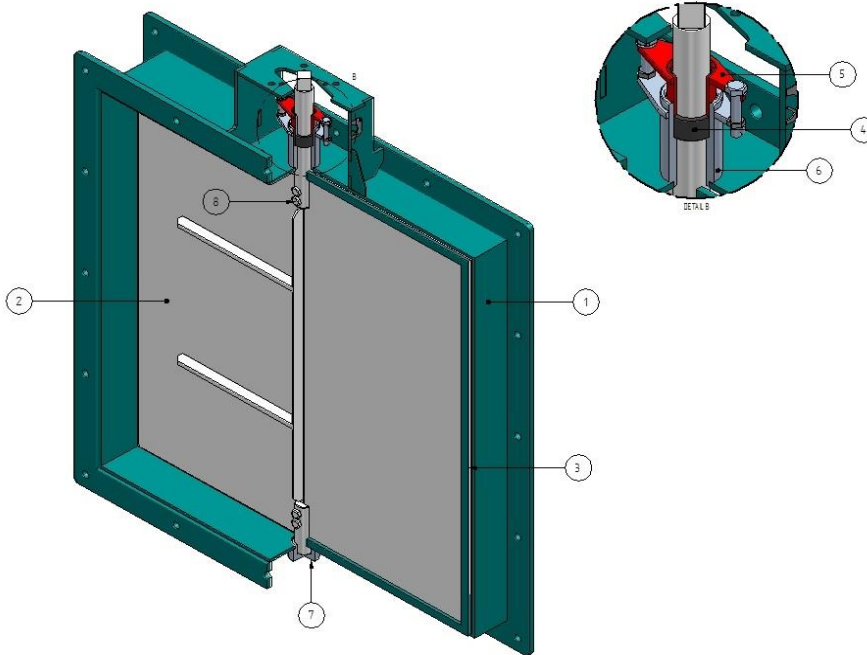
### Collaudi

- Collaudi eseguiti in accordo a ANSI B16.104 EN 12266-1, EN 12266-2, EN 60534

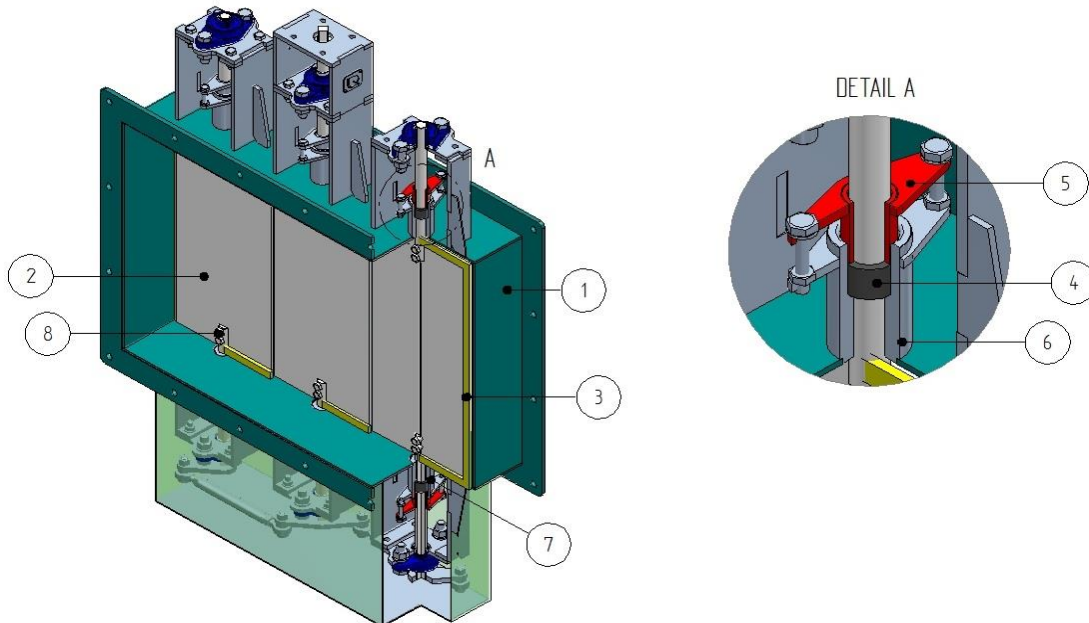
### Attuatori

- Attuatori Pneumatici ed Elettrici in accordo a EN 15714-1 EN 15714-2, EN 15714-3
- Flange di accoppiamento in accordo a EN ISO 5210, EN ISO 5211

AMM 710 - Single Blade Louvre Damper Valve

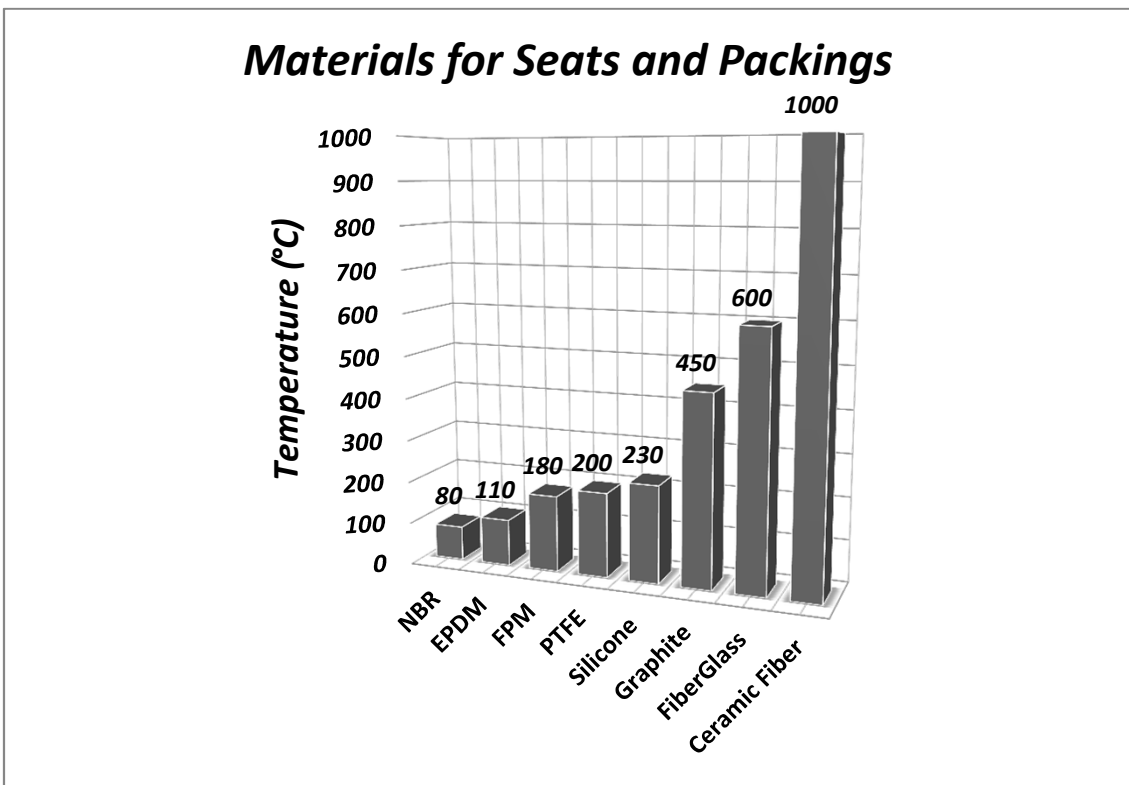
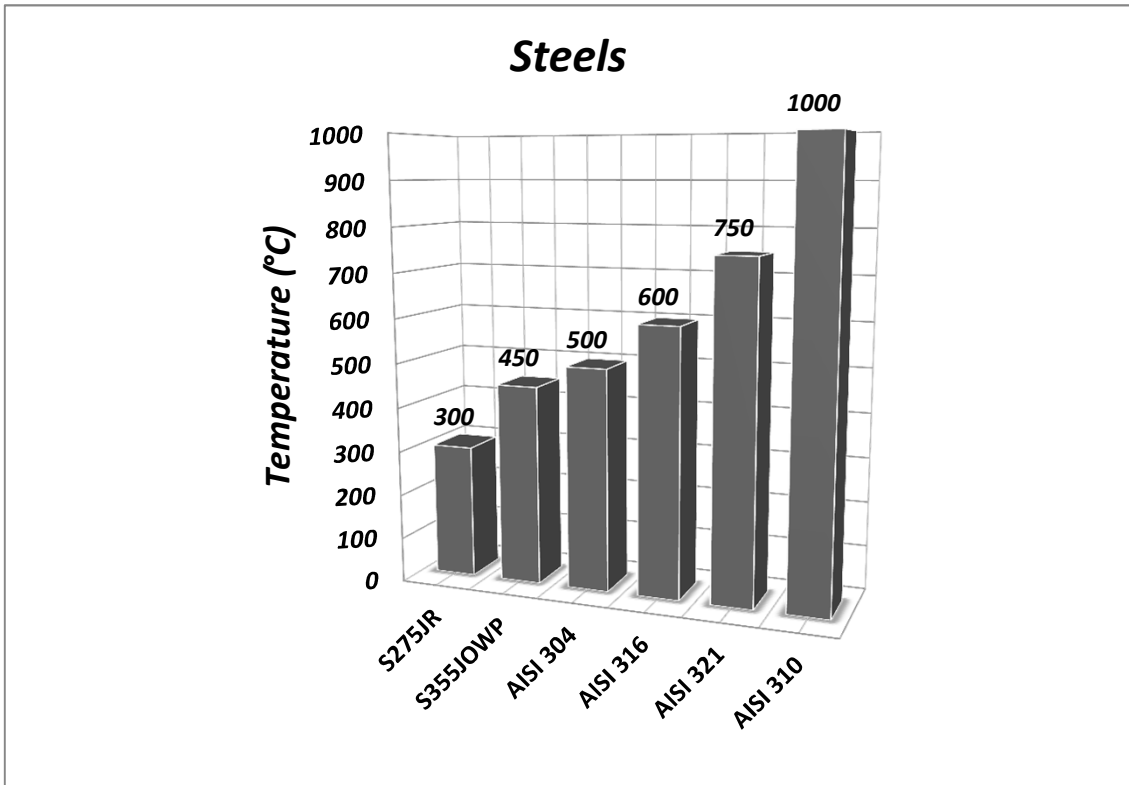


AMM 720 - Multi-Blade Louvre Damper Valve



## Valve Materials

<b>Position/ Posizione</b>	<b>Description/ Descrizione</b>	<b>Material/ Materiale</b>
1	<b>Body/ Corpo</b>	AISI 310 AISI 321 AISI 316 AISI 304 S355 JOWP (Corten-A) S275 JR
2	<b>Disc/ Lente</b>	AISI 310 AISI 321 AISI 316 AISI 304 S355 JOWP (Corten-A) S275 JR
3	<b>Seat / Tenuta</b>	<b>Metal to Metal</b> Ceramic Fiber/ Fibra Cer. Fiberglass/ Fibra di Vetro Graphite/ Grafite Silicone PTFE FPM EPDM NBR
4	<b>Packing/ Treccia</b>	Ceramic Fiber/ Fibra Cer. Fiberglass/ Fibra di Vetro Graphite/ Grafite PTFE
5	<b>Packing Gland/ Premitreccia</b>	AISI 310 AISI 321 AISI 316 AISI 304 S355 JOWP (Corten-A) S275 JR
6	<b>Upper Support/ Supporto Superiore</b>	AISI 310 AISI 321 AISI 316 AISI 304 S355 JOWP (Corten-A) S275 JR
7	<b>Lower Support/ Supporto Inferiore</b>	AISI 310 AISI 321 AISI 316 AISI 304 S355 JOWP (Corten-A) S275 JR
8	<b>Bolting/ Viteria</b>	Stainless Steel Grade A4 Stainless Steel Grade A2

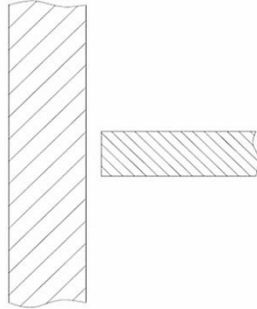


## Seat Styles

No Seat - Leakage Class I

Maximum Leakage Rate agreed between Customer and Supplier

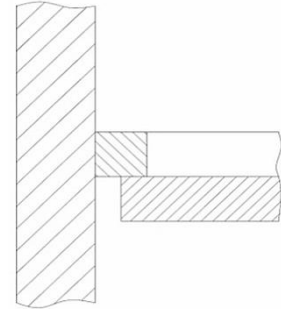
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Metal to Metal - (up to Leakage Class III)

Leakage Rate: 1. < 0,5% Kvs for Class II 2. < 0,1% Kvs for Class III

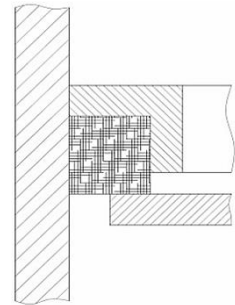
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Soft Sealing with Braid - (up to Leakage Class III)

Leakage Rate: 1. < 0,5% Kvs for Class II 2. < 0,1% Kvs for Class III

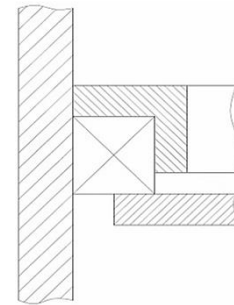
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Soft Sealing with Elastomer - (up to Leakage Class III)

Leakage Rate: 1. < 0,5% Kvs for Class II 2. < 0,1% Kvs for Class III

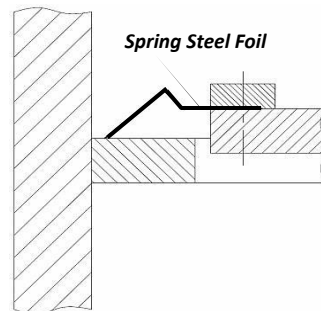
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Resilient Sealing - (up to Leakage Class III)

Leakage Rate: 1. < 0,5% Kvs for Class II 2. < 0,1% Kvs for Class III

Cod.9



**Note:** Maximum Leakage Class (according to ANSI/FCI 70-2-2006) depending on valve size. Percentage leakage rate decreases with the increase of valve size. Kvs is the Flow Coefficient relative to the valve totally opened.