



AMM 710

SERIE 7



**AMM
710**

SERRANDA MONOPALA A SEZIONE QUADRATA O RETTANGOLARE

AMM710 E AMM710H LOUVRE DAMPER VALVE

Campi di applicazione

- Fluidi: aria, gas e fumi
- Termovalorizzatori ed Impianti d'Incenerimento
- Cogenerazione
- Biomassa e Biogas
- Industria siderurgica
- Vetrerie
- Cementifici
- Impianti di filtrazione e abbattimento polveri
- Centrali Elettriche
- Sistemi di recupero calore
- Caldaie e bruciatori
- Industria Chimica e Petrolchimica
- Impianti di Ventilazione e Condizionamento
- Impianti di Ossidazione termica e Rigenerativa

Condizioni d'esercizio

- **Massima temperatura d'esercizio:**
200°C per AMM710, 600°C per AMM710H
- **Per temperature superiori a 600°C AMM710S su richiesta**
- **Pressione massima d'esercizio fino a 3 bar**

Caratteristiche generali

- Servizio ON-OFF o modulante
- Passaggio interno da 100x100 a 1500x1500 (dimensioni inferiori e superiori su richiesta)
- Connessioni FLANGIATE su disegno del cliente
- Classe di tenuta: I, II e III secondo FCI 70-2 (ex ANSI B16.104)
- Manuali e motorizzate con attuazione pneumatica o elettrica
- AMM710H predisposta per coibentazione esterna 200mm

Materiali

- Carbon Steel: S275JR
- Corten A: S355J0WP
- AISI 304
- AISI 316
- Altri su richiesta

Standard applicabili

- Marcatura secondo EN 19
- Certificazione Processi di saldatura UNI EN ISO 9606
- Secondo EN 736-1, EN 736-2, EN 736-3

Direttive applicabili

- Dichiarazione di conformità alla direttiva macchine 2006/42/CE
- Dichiarazione di conformità alla direttiva PED 2014/68/UE
- Dichiarazione di conformità alla direttiva ATEX 2014/34/UE
- Gruppo II Categoria 2 per Zona 1-2 Gas e 21-22 Polveri (II 3 GD)**

Verniciatura

- Carbon Steel: RAL 7031 (<200°C) in accordo a PSP00
- Corten A: RAL 9005 (>200°C) in accordo a PSP00

Test

- In accordo a AMMtech Quality Control Plan QCP00
- In accordo a ANSI/FCI70-2, EN 60534

Attuazione

- Attuatori pneumatici e elettrici secondo EN 15714-1, EN 15714-2, EN 15714-3
- Connessioni e Attuatori secondo EN ISO 5210, EN ISO 5211

Applications

- Fluids: air, Gas and Fumes
- HP and Incineration Plants
- Biomass, Biogas and Renewable Energy Plants
- Steel Industry and Furnaces
- Glass Industry
- Cement Plants
- Air Pollution and Filtration
- Power Plants
- Heat recovery systems
- Boilers and Burners
- Chemical Industry
- Oil and Gas
- HVAC
- Thermal Oxidizers

Working Conditions

- **Maximum Working Temperature up to**
200°C for AMM710, 600°C for AMM710H
- **For temperature up 600°C AMM710S on request**
- **Maximum Working Pressure up to 3 bar**

General Characteristics

- ON/OFF or MODULATING Service
- Bore size from 100x100 to 1500x1500 (dimensions below or above upon request)
- Flanged Connections according to Customer Drawing
- Tightness Class I, II and III according to FCI 70-2 (ex ANSI B16.104)
- Operated by Handlever, Pneumatic or Electric Actuators
- AMM710H designed for insulation 200mm

Materials

- Carbon Steel: S275JR
- Corten A: S355J0WP
- 304 SS
- 316 SS
- Others upon request

Applicable Standards

- Marking according to EN 19
- Certified Welding Procedures according to UNI EN ISO 9606
- According to EN 736-1, EN 736-2, EN 736-3

Applicable Directives

- Declaration of Conformity in Compliance with Machinery Directive 2006/42/CE
- Declaration of Conformity in Compliance with European Directive PED 2014/68/UE
- Declaration of Conformity in Compliance with European Directive ATEX 2014/34/UE
- Group II Category 2 for Zone 1-2 Gas and 21-22 Dust (II 3 GD)**

Coating

- Carbon Steel: RAL 7031 epoxy coating (<200°C) According to PSP00
- Corten A: RAL 9005 HT coating (>200°C) According to PSP00

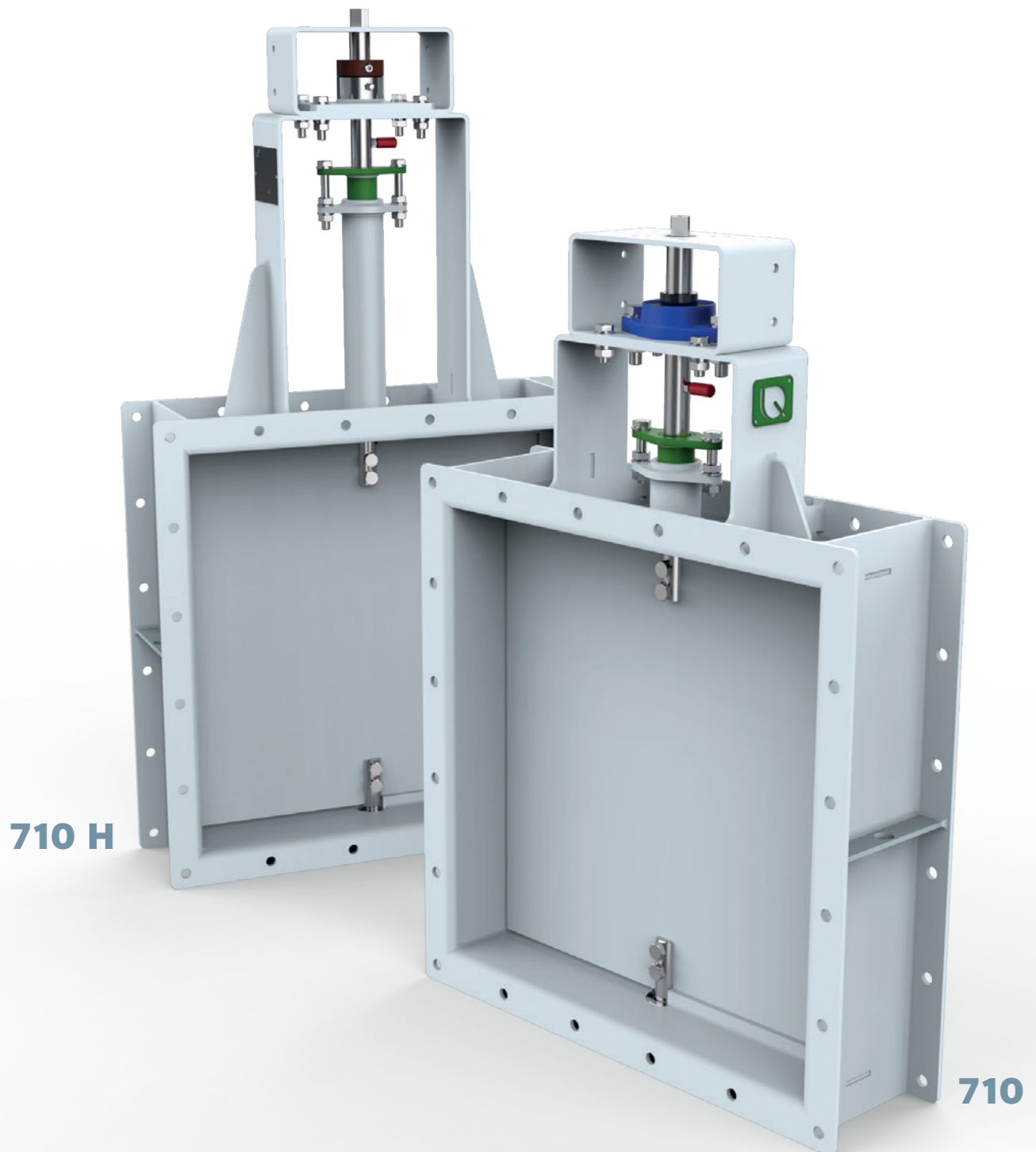
Test

- According to AMMtech Quality Control Plan QCP00
- According to ANSI/FCI70-2, 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

LOUVRE DAMPER VALVE





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LOUVRE DAMPER VALVE FLOW COEFFICIENT

Flow Coefficient KV

DN	90°	80°	70°	60°	50°	40°	30°	20°	10°
100x100	954	808	535	303	194	117	70	28	4
150x150	2384	2048	1325	728	492	305	182	79	9
200x200	3797	3290	2077	1203	305	182	243	102	15
250x250	5867	4876	3176	1863	1206	779	438	172	22
300x300	7573	6331	4293	2446	1506	922	550	210	26
350x350	10078	8344	5660	3170	1963	1271	708	294	30
400x400	16195	13076	9202	5258	3369	2013	1149	443	54
500x500	23629	19657	12713	7673	4647	3013	1783	681	129
600x600	32665	27215	17404	10225	6482	4152	2440	923	220
700x700	42592	36465	22854	14180	9454	5196	3068	1336	276
800x800	54331	47243	29349	17458	11586	6510	3839	1650	350
900x900	73812	61692	38011	22782	14782	9159	4941	2020	480
1000x1000	85497	68268	43349	25892	16552	10869	5860	2481	524
1100x1100	95636	75804	50990	30682	19344	13082	7288	2782	602
1200x1200	107688	87541	58661	34467	21395	13637	7876	3393	686
1300x1300	123708	101628	64561	39092	22996	14507	8641	4215	738
1400x1400	155140	126123	81698	48956	30142	19362	11070	4897	973
1500x1500	176298	143679	91343	55328	33591	21560	12390	5672	1087

$$K_v = Q_n / 519 \cdot [(p_G \cdot T_1) / (\Delta p \cdot p_2)]^{0,5} \quad (C_v = K_v / 0,8565)$$

where:

Q_n [m³/h] : Flow Rate of gas, related to 0 °C and 1013 mbar

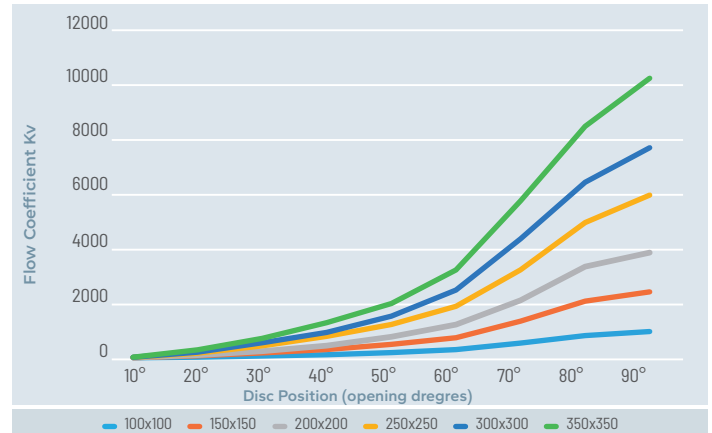
ρ_G [kg/m³] : density of gases at 0 °C and 1013 mbar

T_1 [K] : absolute temperature at upstream side of the valve

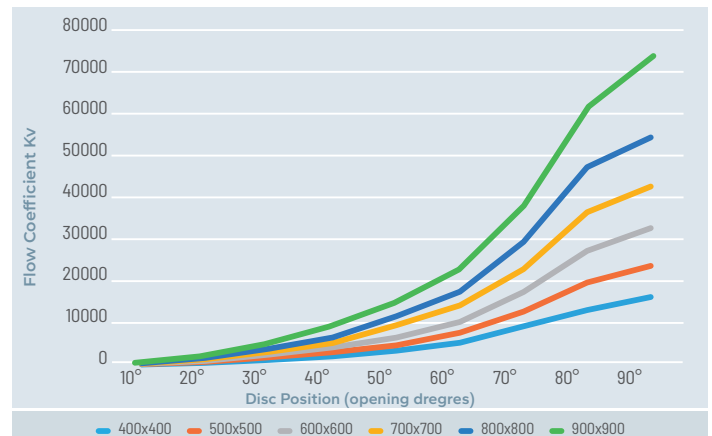
Δp [bar] : pressure drop in the valve

p_2 [bar] : absolute pressure at downstream side of the valve

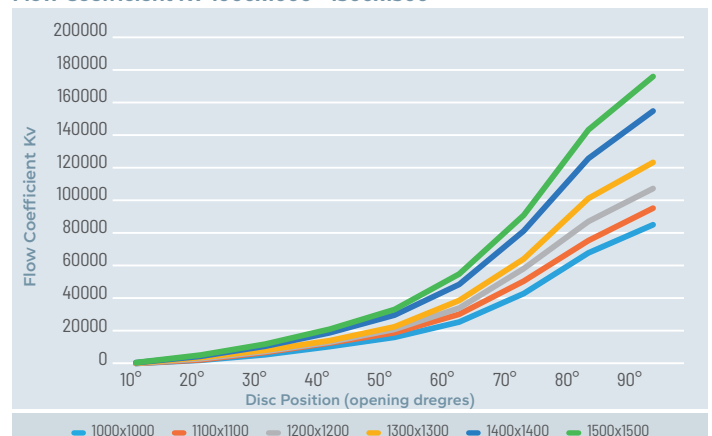
Flow Coefficient KV 100x100 - 350x350



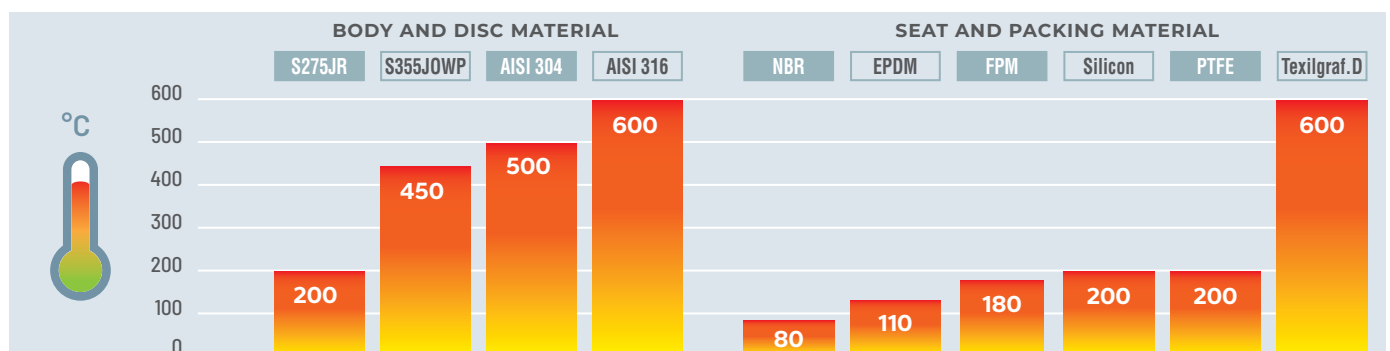
Flow Coefficient KV 400x400 - 900x900



Flow Coefficient KV 1000x1000 - 1500x1500



VALVE MATERIAL



* Verificare compatibilità chimica dei materiali con fluido di processo / Chemical suitability of construction material to be verified according to process fluid

SEAT STYLES

COD. 0

Tenuta met/met
Metal to metal seat

DN	CLASS	VALUE (FCI 70-2)
from 100x100 to 200x200	I	Relative Tightness
from 250x250 to 1500x1500	II	< 0,5% Kvs
-	-	-
-	-	-

COD. 3

Senza battuta
No seat

DN	CLASS	VALUE (FCI 70-2)
from 100x100 to 1500x1500	I	Relative Tightness
-	-	-
-	-	-
-	-	-

COD. 5

Tenuta potenziata con Treccia o Elastomero
Soft Sealing with Braid or Elastomer

DN	CLASS	VALUE (FCI 70-2)
100x100	I	Relative Tightness
from 100x100 to 200x200	II	< 0,5% Kvs
from 250x250 to 1500x1500	III	< 0,1% Kvs
from 1100x1100 to 1500x1500	III/IV	< 0,05% Kvs

COD. 9

Tenuta resiliente con lamelle
Resilient Seat

DN	CLASS	VALUE (FCI 70-2)
from 300x300 to 1500x1500	III	< 0,1% Kvs
-	-	-
-	-	-
-	-	-

COD. T

Tenuta resiliente con aria di sbarramento
Resilient Seat with air sealing system

DN	CLASS	VALUE (FCI 70-2)
from 300x300 to 1500x1500	III	100% Tightness
-	-	-
-	-	-
-	-	-

Air Inlet

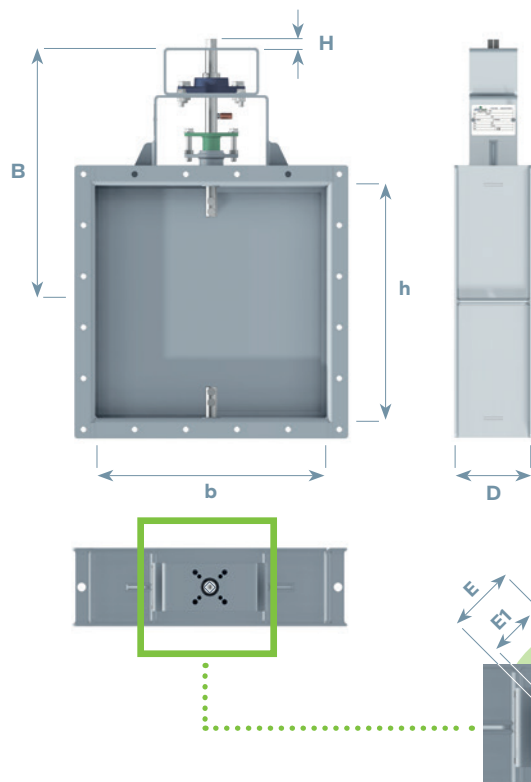


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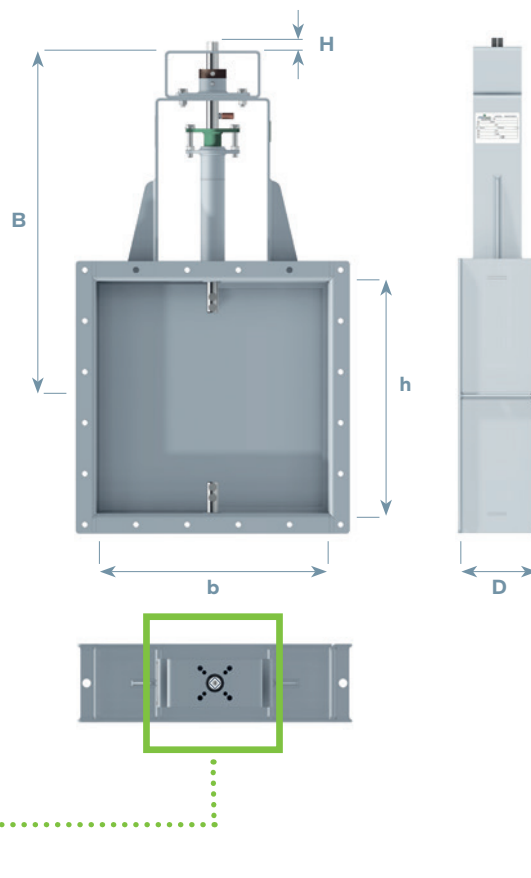
LOUVRE DAMPER VALVE

TECHNICAL DATA

710



710 H



b x h*	PS (MAX)	D	B		CH	H	E	E1	Torque (Nm)	SUGGESTED ACTUATOR	
			710	710 H			ISO 5211	ISO 5211		Double Acting	Single Acting
300x300	2	140	379	538	14	17	F07	F05	26	AM17.0	AM20.4
350x350	2	140	404	563	14	17	F07	F05	30	AM17.0	AM20.4
400x400	2	190	460	620	22	20	F10	F07	35	AM20.0	AM30.4
450x450	1	190	485	645	22	20	F10	F07	42	AM25.0	AM30.4
500x500	1	190	510	670	22	20	F10	F07	50	AM25.0	AM30.4
600x600	1	190	560	720	22	20	F10	F07	65	AM35.0	AM40.4
700x700	1	190	610	770	22	20	F10	F07	77	AM40.0	AM45.4
800x800	0,5	240	750	910	27	25	F12	F10	103	AM40.0	AM45.4
900x900	0,5	240	800	960	27	25	F12	F10	134	AM50.0	AM55.4
1000x1000	0,5	240	865	1005	27	25	F12	F10	158	AM50.0	AM55.4
1100x1100	0,5	240	915	1055	27	25	F12	F10	192	AM55.0	AM60.4
1200x1200	0,5	240	965	1105	27	25	F14	F12	220	AM55.0	AM60.4
1300x1300	0,2	240	1015	1155	27	25	F14	F12	252	AM55.0	AM60.4
1400x1400	0,2	240	1065	1205	27	25	F14	F12	284	AM60.0	AM65.4
1500x1500	0,2	240	1115	1255	27	25	F14	F12	330	MT60.0	AM65.4
1600x1600	0,2	300	1225	1395	36	35	F16	F14	395	MT65.0	AM70.4
1700x1700	0,2	300	1275	1445	36	35	F16	F14	482	MT65.0	AM70.4
1800x1800	0,2	300	1315	1505	46	45	F16	F14	549	MT65.0	AM70.4
1900x1900	0,2	400	1485	1680	46	45	F16	F14	635	MT70.0	AM70.4
2000x2000	0,2	400	1535	1730	46	45	F16	F14	722	MT70.0	AM75.4

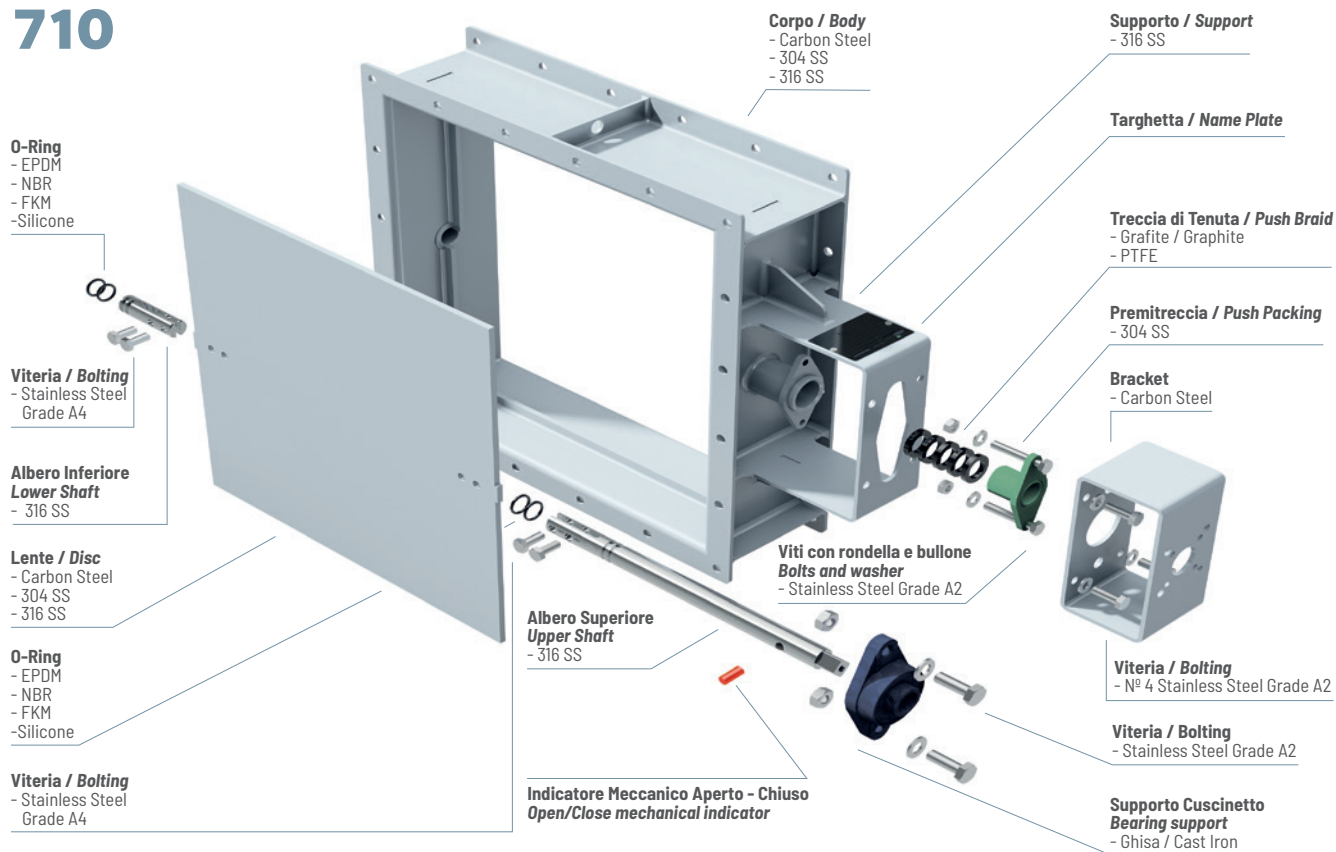
* Sezione personalizzabile su richiesta / Customized section upon request.

Copie senza fattore di sicurezza (per dimensionamento maggiore del 40%) / Torque without security factor (for sizing calculate additional 40%).

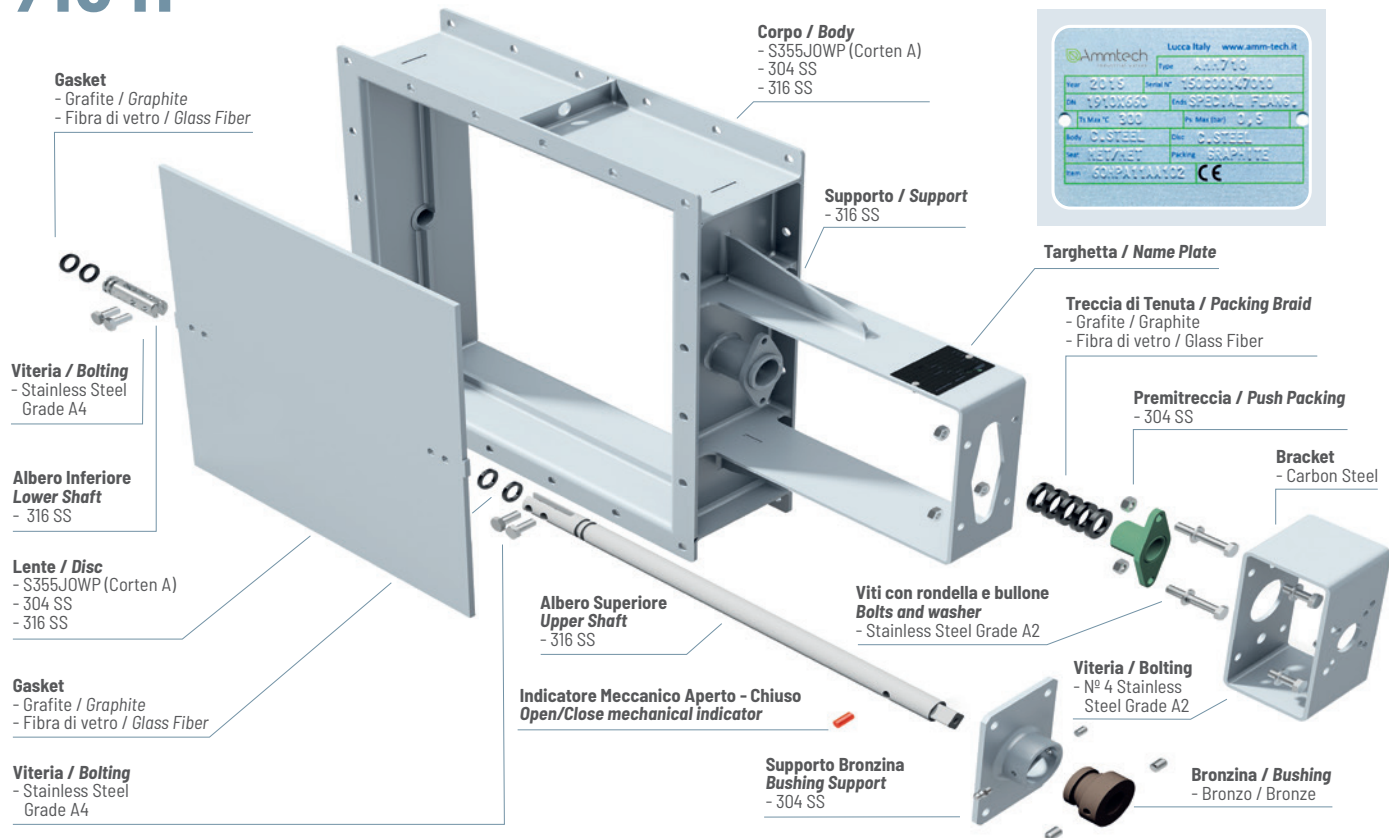
Le coppie fornite dagli attuatori PNEUMATICI sono state calcolate considerando una pressione d'alimentazione di 5 bar / The torque supplied by PNEUMATIC actuators are calculated assuming a supply pressure of 5 bar.

AMMtech si riserva il diritto di apportare modifiche ai propri prodotti in qualunque momento.
AMMtech reserves the right to make changes to its products at any time.

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710 H





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