

AMM 755 SERIES 7

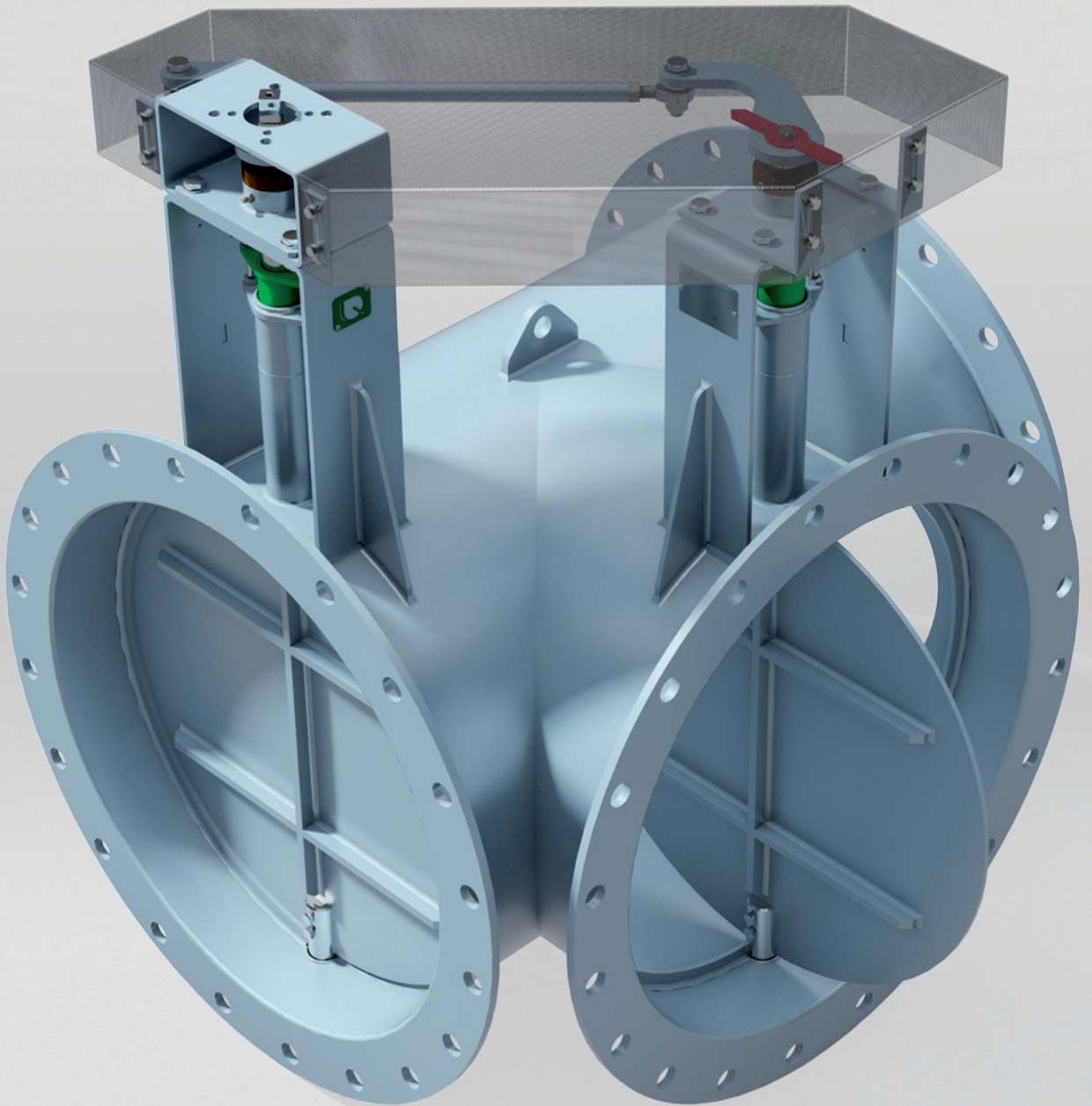


AMMtech
INDUSTRIAL VALVES



BY-PASS DAMPER

AMM 755



755

SERIES 7

AMM 755

VALVOLA PER FUMI A 3 VIE

■ Campi di applicazione

- Fluidi: Aria, Gas e Fumi
- Termovalorizzatori ed Impianti d'Incenerimento
- Cogenerazione
- Biomassa e Biogas
- Impianti di filtrazione e abbattimento polveri
- Centrali Elettriche
- Sistemi di recupero calore
- Caldaie e bruciatori
- Impianti di Ossidazione e Rigeneratori

■ Condizioni d'esercizio

- **Massima temperatura d'esercizio: 600°C**
- **Pressione massima d'esercizio: 3 bar**
La pressione massima varia al variare del diametro e della temperatura

■ Caratteristiche generali

- Servizio ON-OFF o modulante
- Diametro da DN 150 a DN 1500 (Diametri inferiori a DN 150 superiori a DN 1500 su richiesta)
- Connessioni: FLANGIATA PN6, PN10, ANSI 150
- Supporti esterni
- Classe di tenuta: I, II e III secondo FCI 70-2 (ex ANSI B16.104)
- Manuali e motorizzati con attuazione pneumatica o elettrica
- Predisposta per coibentazione esterna 200 mm

■ Materiali

- Carbon Steel: S355JOWP – CORTEN A (Tmax <450°C)
- AISI 304
- AISI 316
- Altri su richiesta

■ Standard applicabili

- Secondo EN 12516-1, EN 736-1, EN 736-2, EN 736-3, EN 1349, EN 593, ASME B16.34
- Materiali secondo EN 1503-1, EN 1503-2
- Connessioni secondo EN 1092-1, ASME B16.5
- Marcatura secondo EN 19
- Certificazione Processi di saldatura UNI EN 287-1

■ Direttive applicabili

- Dichiarazione di conformità alla direttiva macchine 2006/42/CE
- Dichiarazione di conformità alla direttiva PED 97/23/CE
- Dichiarazione di conformità alla direttiva ATEX 94/9/CE
- Gruppo II Categoria 3 per Zona 2 Gas e 22 Polveri (II 3 GD)**

■ Verniciatura

- In accordo a PSP00 Cycle PS4_PHT
- Carbon Steel: RAL 9005 HT

■ Test

- In accordo a AMMtech Quality Control Plan QCP00
- In accordo a ANSI/FCI70-2, EN 12266-1, EN 12266-2, 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

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■ Applications

- Fluids: Air, Gas and Fumes
- CHP and Incineration Plants
- Biomass, Biogas and Renewable Energy Plants
- Air Pollution and Filtration
- Power Plants
- Heat recovery systems
- Boilers and Burners
- Thermal Oxidizers

■ Working Conditions

- **Maximum Working Temperature up to 600°C**
- **Maximum Working Pressure up to 3 bar**
Maximum Working pressure varies with diameter and temperature

■ General Characteristics

- ON/OFF or MODULATING Service
- Diameter Range from DN 150 to DN 1500 (DN below 150 or above 1500 upon request)
- End Connections: FLANGED PN6, PN10, ANSI 150
- Outside Bushing
- Tightness Class I, II and III according to FCI 70-2 (ex ANSI B16.104)
- Operated by Handlever, Pneumatic or Electric Actuators
- Designed for Insulation 200 mm

■ Materials

- Carbon Steel: S355JOWP - CORTEN A (Tmax < 450°C)
- 304 SS
- 316 SS
- others upon request

■ Applicable Standards

- 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
- End Connections as per EN 1092-1, ASME B16.5
- Marking according to EN 19
- Certified Welding Procedures according to UNI EN 287-1

■ Applicable Directives

- Declaration of Conformity in Compliance with Machinery Directive 2006/42/CE
- Declaration of Conformity in Compliance with Directive PED 97/23/CE
- Declaration of Conformity in Compliance with Directive ATEX 94/9/CE
- Group II Category 3 for Zone 2 Gas and 22 Dust (II 3 GD)**

■ Coating

- According to PSP00 Cycle PS4_PHT
- Carbon Steel: RAL 9005 HT silicon coating

■ Test

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



Flow Coefficient KV

DN	NPS	90°	80°	70°	60°	50°	40°	30°	20°	10°
150	6"	1593	1322	874	506	318	197	104	46	5
200	8"	2861	2458	1591	874	591	367	218	94	10
250	10"	4557	3948	2492	1443	916	532	291	122	18
300	12"	7040	5852	3811	2235	1447	935	525	206	27
350	14"	9087	7597	5152	2935	1807	1107	660	252	31
400	16"	12094	10012	6792	3805	2355	1525	850	353	36
450	18"	14843	12436	8769	5122	3032	1816	1143	454	51
500	20"	19434	15691	11042	6310	4043	2415	1379	531	64
600	24"	28355	23588	15256	9207	5576	3616	2140	817	155
700	28"	39198	32657	20885	12270	7779	4982	2928	1107	264
800	32"	51110	43759	27424	17016	11344	6235	3681	1603	331
900	36"	65197	56692	35219	20949	13903	7812	4607	1980	420
1000	40"	88575	74031	45613	27339	17739	10979	5929	2424	576
1100	44"	102597	81922	52019	31070	19862	13043	7032	2977	629
1200	48"	114762	90965	61188	36818	23213	15698	8746	3339	722
1300	52"	129225	105050	70393	41360	25674	16364	9451	4072	823
1400	56"	148449	121954	77473	46911	27595	17408	10370	5058	886
1500	58"	186168	151348	98037	58748	36171	23234	13284	5876	1168

$$K_v = Q_n / 519 * [(\rho_g * T_1) / (\Delta p * p_2)]^{0.5} \quad (C_v = K_v / 0.8565)$$

where:

Q_n [m³/h] : Flow Rate of gas, related to 0 °C and 1013 mbarρ_g [kg/m³] : density of gases at 0 °C and 1013 mbarT₁ [K] : absolute temperature at upstream side of the valve

Δp [bar] : pressure drop in the valve

p₂ [bar] : absolute pressure at downstream side of the valve

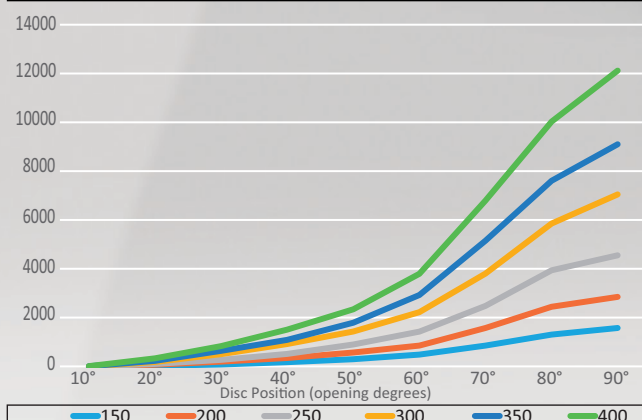
Nota: Il coefficiente di flusso Kv in tabella è relativo alla valvola a farfalla; per il corretto calcolo della perdita di carico occorre tenere in considerazione la perdita di carico nella derivazione e la variazione della portata dovuta alla deviazione del flusso.

Note: The flow coefficient Kv in the table is relative to the Butterfly valve; for the correct calculation of the pressure drop is necessary to consider the pressure loss of pressure in the derivation and the variation of the flow due to deflection.

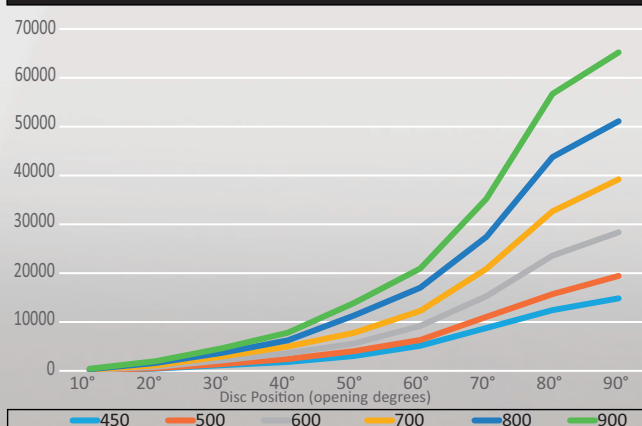
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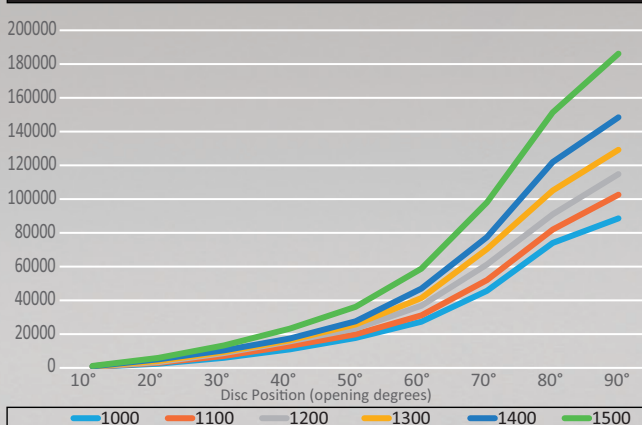
Flow Coefficient Kv DN 150 - DN 400



Flow Coefficient Kv DN 450 - DN 900



Flow Coefficient Kv DN 1000 - DN 1500



Body and disc material

S355JOWP

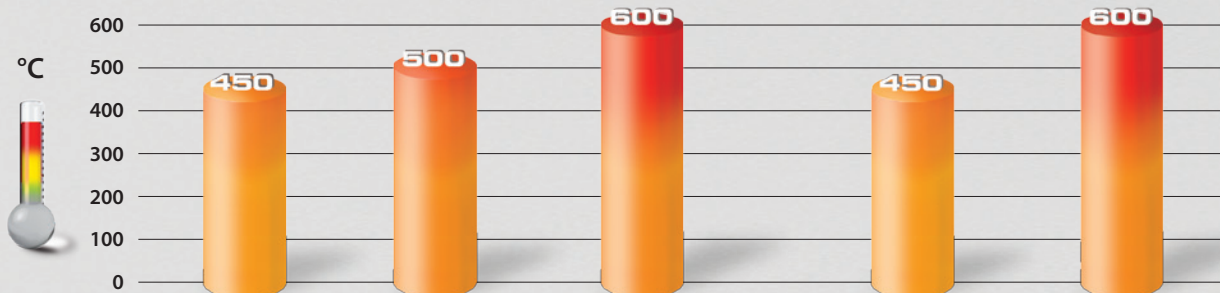
AISI 304

AISI 316

Braid material for seat and packing

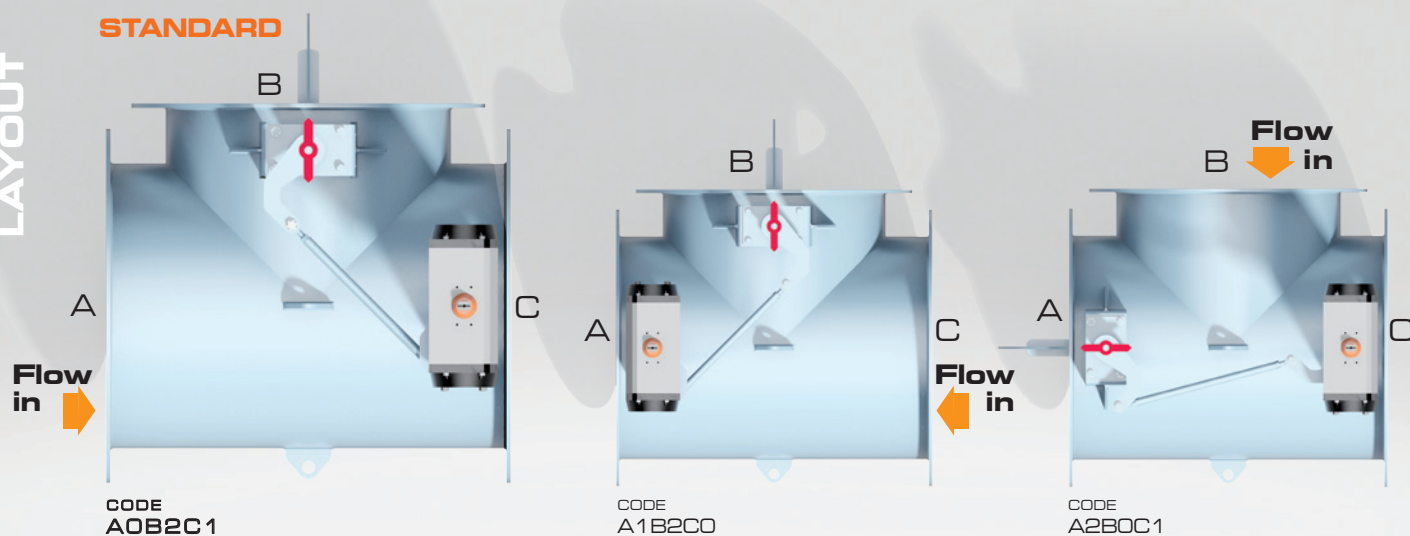
Graphite

FiberGlass



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

LAYOUT

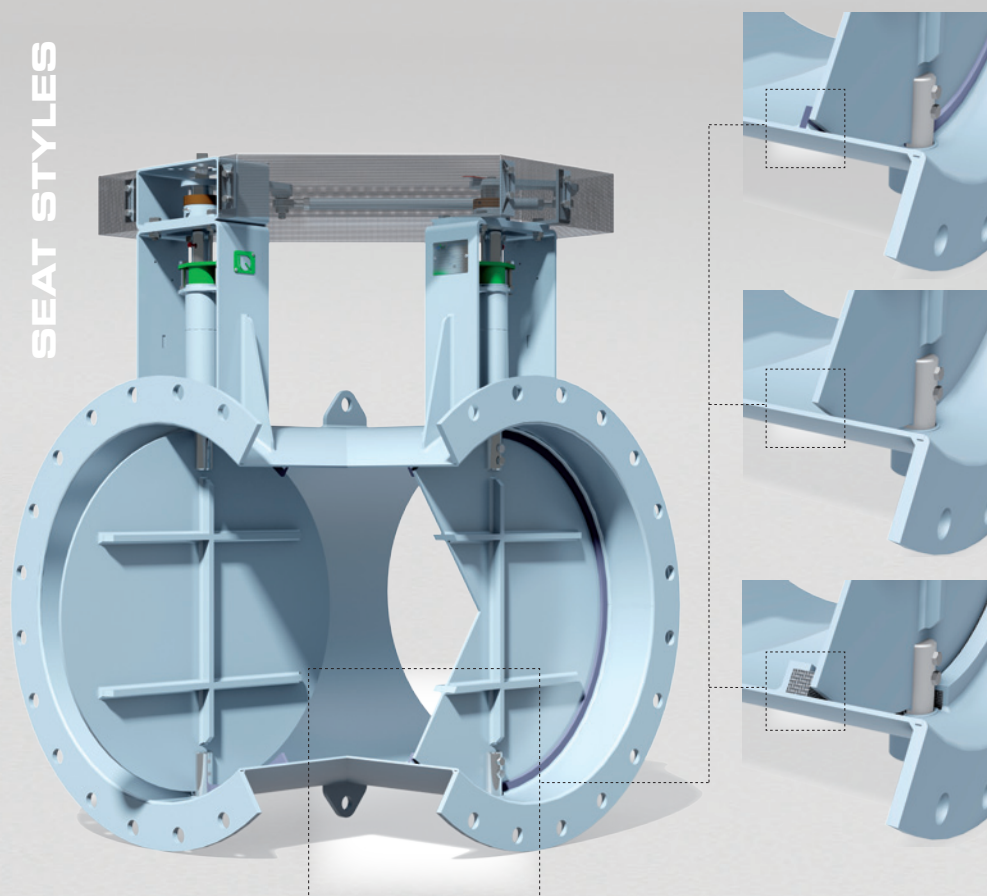


Il codice di configurazione si compone della lettera relativa alla via, seguita dal numero che identifica il comando (come da tabella)

The layout code is composed by a letter corresponding to the way, followed by a number matching the type of command (as per the below table)

LAYOUT TABLE		
0	1	2
Libera Free	Attuata Actuated	Condotta Accompanied

SEAT STYLES



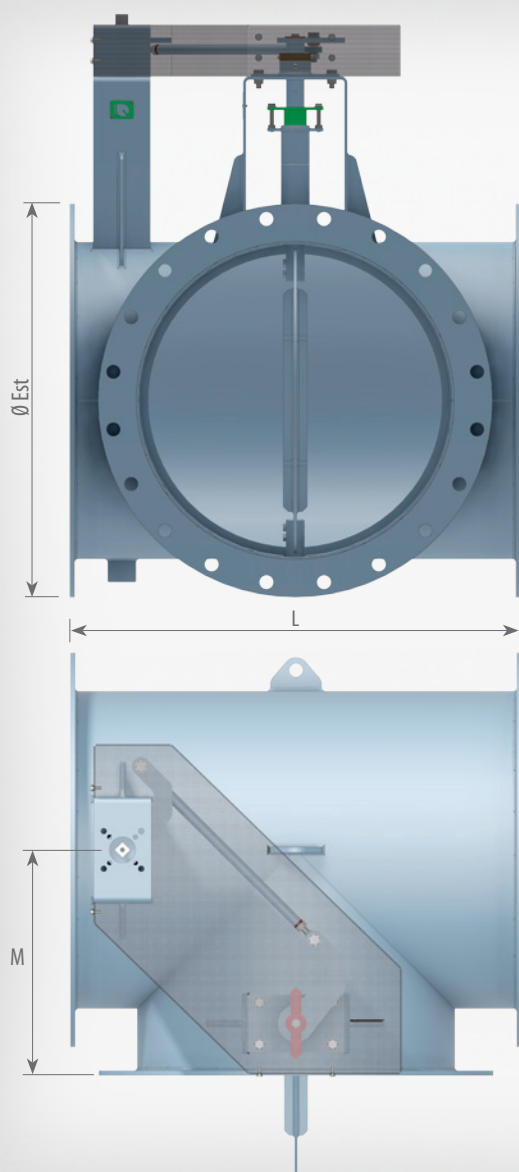
COD. 0 standard		
Tenuta Met / Met - Metal to Metal seat		
DN	CLASS	VALUE (FCI 70-2)
from 150 to 200	I	Relative tightness
from 250 to 1500	II	< 0,5%Kvs
-	-	-

COD. 3		
Senza battuta - No seat		
DN	CLASS	VALUE (FCI 70-2)
from 150 to 1500	I	Relative tightness
-	-	-
-	-	-

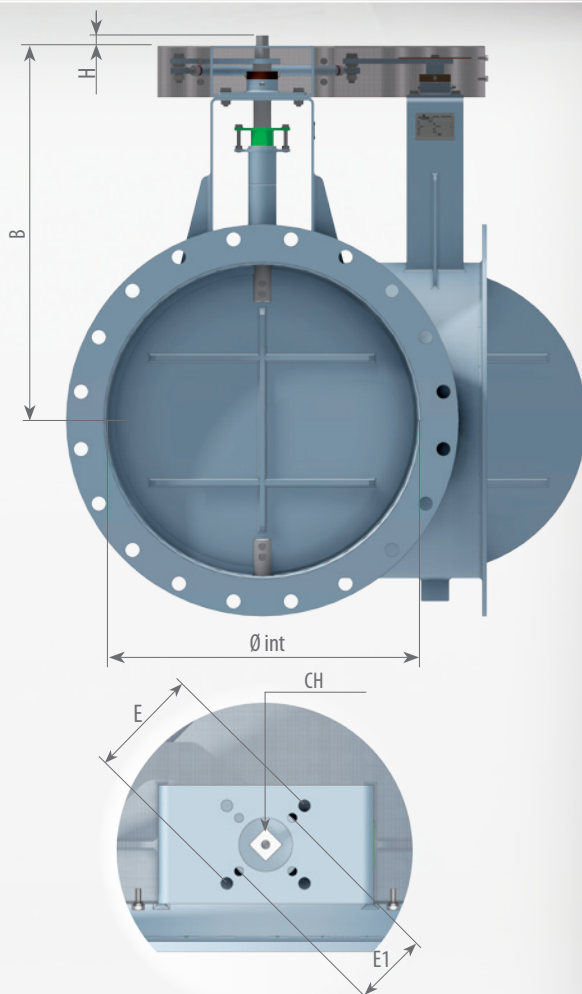
COD. 5		
Tenuta potenziata con treccia - Soft Sealing with Braid		
DN	CLASS	VALUE (FCI 70-2)
from 150 to 200	II	< 0,5%Kvs
from 250 to 1000	III	< 0,1%Kvs
from 1100 to 1500	III/IV	< 0,05%Kvs



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Flanged



* Diametri inferiori a DN 150 o superiori a DN 1500 su richiesta.
DN below 150 or above 1500 available upon request.
* Coppie senza fattore di sicurezza (per dimensionamento maggiorare 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 values supplied by PNEUMATIC actuators are calculated assuming a supply pressure of 5 bar.

DN	PS MAX (bar)	Ø int	Ø est		B	L	M	E	E1	CH	H	WEIGHT	Max Torque (Nm)	Suggested Actuator	
			PN6	PN10										Double Acting	Single Acting
150	3	160	265	285	470	385	192	F07	F05	14	17	29	13	AM20.0	AM25.4
200	3	211	320	340	495	440	220	F07	F05	14	17	35	20	AM20.0	AM25.4
250	2	267	375	395	522	495	247	F07	F05	14	17	47	23	AM20.0	AM35.4
300	2	316	440	445	547	545	273	F07	F05	14	17	70	29	AM20.0	AM35.4
350	2	350	490	505	564	605	302	F10	F07	22	20	85	34	AM30.0	AM35.4
400	2	400	540	565	588	665	302	F10	F07	22	20	95	39	AM30.0	AM35.4
450	1	450	595	615	648	715	357	F10	F07	22	20	115	46	AM40.0	AM45.4
500	1	500	645	670	673	850	425	F10	F07	22	20	135	55	AM40.0	AM45.4
600	1	600	755	780	721	1020	510	F10	F07	22	20	157	72	AM40.0	AM45.4
700	1	700	860	895	771	1190	595	F10	F07	22	20	217	88	AM45.0	AM50.4
800	0,5	800	975	1015	821	1360	680	F10	F07	22	20	309	100	AM45.0	AM50.4
900	0,5	900	1075	1115	963	1240	620	F14	F12	27	25	398	116	AM55.0	AM60.4
1000	0,5	1000	1175	1230	1013	1700	850	F14	F12	27	25	530	135	AM55.0	AM60.4
1100	0,5	1100	1290	1335	1063	1870	935	F14	F12	27	25	614	161	AM55.0	AM60.4
1200	0,5	1200	1405	1445	1113	2040	1020	F14	F12	27	25	745	187	AM55.0	AM60.4
1300	0,2	1300	1515	1560	1163	2210	1105	F14	F12	27	25	881	218	AM60.0	AM65.4
1400	0,2	1400	1630	1675	1215	2380	1190	F14	F12	27	25	1035	250	AM60.0	AM65.4
1500	0,2	1500	1730	1795	1265	2550	1275	F14	F12	27	25	1258	278	AM60.0	AM65.4

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.

Carter
- Carbon Steel

Bracket
- Carbon Steel

Viti con rondella e bullone
Bolts and washer
- Stainless Steel Grade A2

Tirante / Tie Rod
- 304 SS
- Acciaio / Galvanized Steel

Supporto / Support
- 316 SS

Corpo / Body
- S355JOWP (Corten A)
- 304 SS
- 316 SS

Premitreccia / Push Packing
- 304 SS

Targhetta
Name Plate

Leva / Lever
- S355JOWP (Corten A)
- 304 SS
- 316 SS

Indicatore Meccanico Aperto-Chiuso
Open/Close mechanical indicator

Treccia di Tenuta
Packing Braid
- Grafite / Graphite
- Fibra di vetro / Glass Fiber

Bronzina / Bushing
- Bronzo
- Bronze

Supporto Bronzina
Bushing Support
- 304 SS

Viteria / Bolting
- Stainless Steel
Grade A4

Albero Superiore
Upper Shaft
- 316 SS

Gasket
- Grafite / Graphite
- Fibra di vetro / Glass Fiber

Gasket
- Grafite / Graphite
- Fibra di vetro / Glass Fiber

Viteria / Bolting
- Stainless Steel Grade A4

Lente / Disc
- S355JOWP (Corten A)
- 304 SS
- 316 SS

Albero Inferiore
Lower Shaft
- 316 SS

Targhetta
Name Plate





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