



AMM 740 SERIES 7

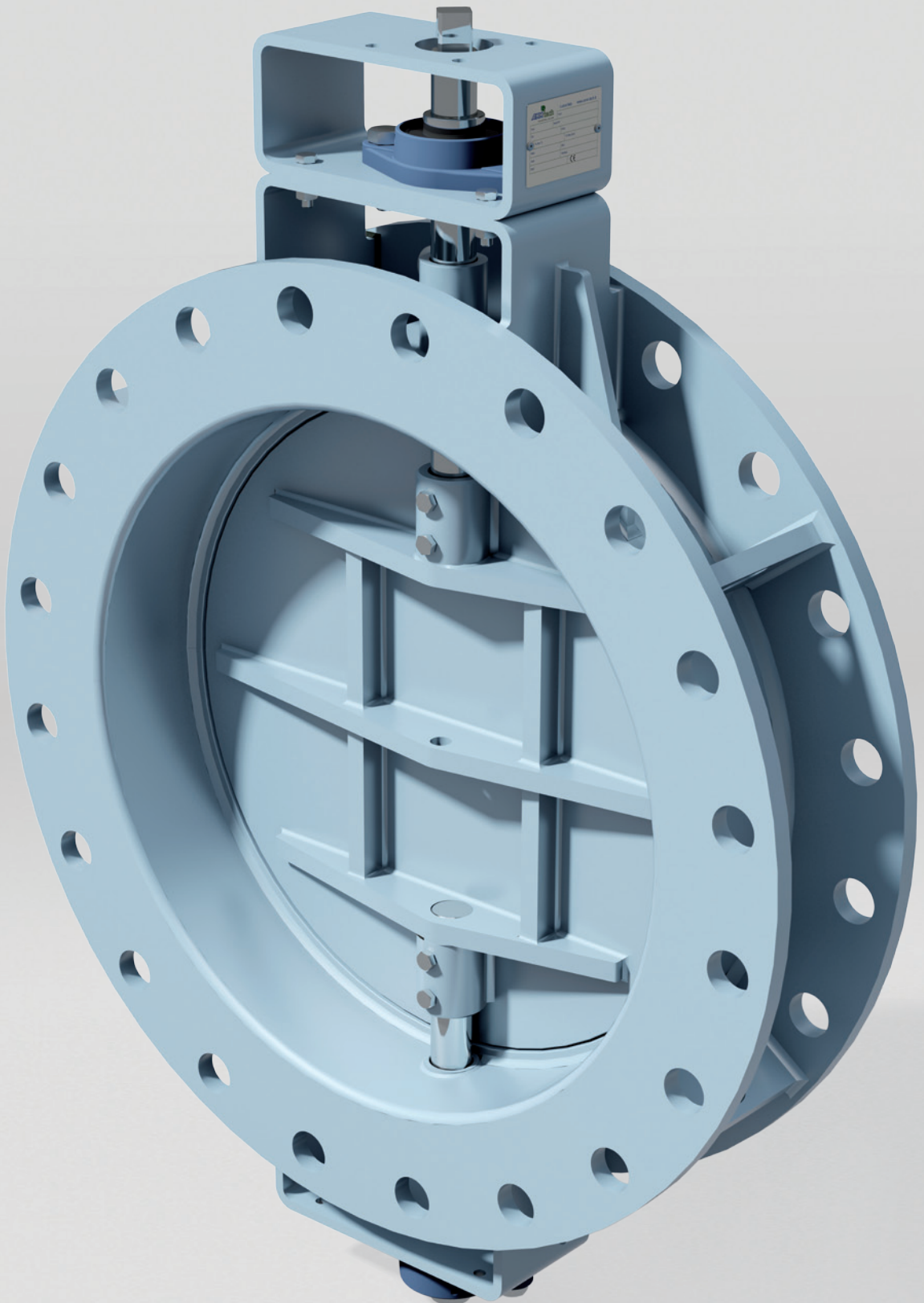


AMMtech
INDUSTRIAL VALVES



Ø LEAKAGE DAMPER VALVE

AMM 740



SIL✓
SIL LEVEL 2



AMM 740

VALVOLA PER FUMI A TENUTA PERFETTA

Campi di applicazione

- Fluidi: Aria, Gas, Fumi e Liquidi
- Termovalorizzatori ed Impianti d'Incenerimento
- Cogenerazione
- Biomassa e Biogas
- Centrali Elettriche
- Caldaie e bruciatori
- Industria Chimica e Petrolchimica
- Impianti di Ossidazione termica e Rigenerativa

Condizioni d'esercizio

- **Massima temperatura d'esercizio: 200°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 200 a DN 1500 (diametri inferiori a DN 200 e superiori a DN 1500 su richiesta)
- Connessioni: WAFER o FLANGIATA PN6, PN10, ANSI 150, a saldare o a disegno
- Supporto esterno a cuscinetto
- Classe di tenuta: VI secondo FCI 70-2 (ex ANSI B16.104)
- Manuali e motorizzate con attuazione pneumatica o elettrica

Materiali

- Carbon Steel: S275JR o equivalente
- 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 2 per Zona 1,2 Gas e 21,22 Polveri (II 2 GD)

Safety integrity level SIL 2 in accordo alla normativa IEC 61508:2010

Verniciatura

- In accordo a PSP00 Cycle PS3_P
- Carbon Steel: RAL 7031

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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Ø LEAKAGE DAMPER VALVE

Applications

- Fluids: Air, Gas, Fumes and Liquid
- CHP and Incineration Plants
- Biomass, Biogas and Renewable Energy Plants
- Power Plants
- Boilers and Burners
- Chemical Industry
- Thermal Oxidizers

Working Conditions

- **Maximum Working Temperature up to 200°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 200 to DN 1500 (DN below 200 or above 1500 upon request)
- End Connections: WAFER or FLANGED PN6, PN10, ANSI 150, Butt Weld or according to Customer Drawing
- Outside Bearing
- Tightness Class VI according to FCI 70-2 (ex ANSI B16.104)
- Operated by Handlever, Pneumatic or Electric Actuators

Materials

- Carbon Steel: S275JR or equivalent
- 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 European Directive PED 97/23/CE
- Declaration of Conformity in Compliance with European Directive ATEX 94/9/CE

Group II Category 2 for Zone 1, 2 Gas and 21, 22 Dust (II 2 GD)

Safety integrity level SIL 2 according to Standards IEC 61508:2010

Coating

- According to PSP00 Cycle PS3_P
- Carbon Steel: RAL 7031 epoxy 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

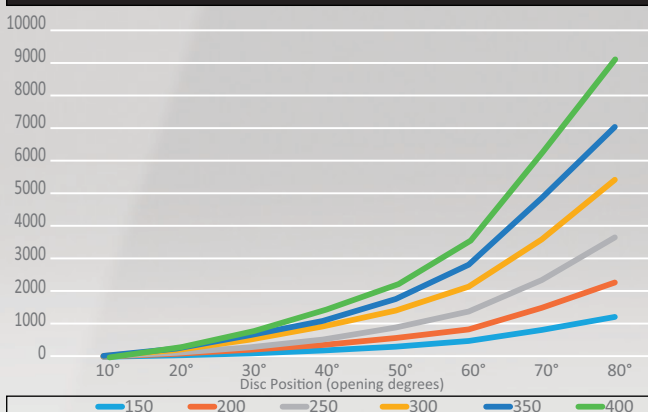
Flow Coefficient Kv										
DN	NPS	90°	80°	70°	60°	50°	40°	30°	20°	10°
150	6"	1448	1212	816	482	309	194	103	46	5
200	8"	2601	2255	1486	832	574	361	217	94	10
250	10"	4142	3622	2329	1374	890	524	290	122	18
300	12"	6400	5368	3562	2129	1404	921	522	206	27
350	14"	8261	6970	4815	2795	1755	1090	656	252	31
400	16"	10994	9186	6348	3623	2287	1503	845	353	36
450	18"	13494	11410	8195	4878	2944	1789	1137	454	51
500	20"	17667	14395	10320	6009	3925	2380	1372	531	64
600	24"	25778	21640	14258	8769	5413	3563	2129	817	155
700	28"	35634	29961	19519	11686	7552	4909	2913	1107	264
800	32"	46464	40145	25630	16206	11014	6143	3663	1603	331
900	36"	59270	52011	32915	19952	13498	7697	4584	1980	420
1000	40"	80523	67918	42629	26037	17222	10817	5899	2424	576
1100	44"	93270	75157	48616	29591	19284	12850	6997	2977	629
1200	48"	104329	83454	57185	35065	22537	15466	8702	3339	722
1300	52"	117478	96376	65788	39391	24927	16122	9404	4072	823
1400	56"	134954	111884	72405	44677	26791	17151	10318	5058	886
1500	58"	169244	138851	91624	55950	35117	22891	13218	5876	1168

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

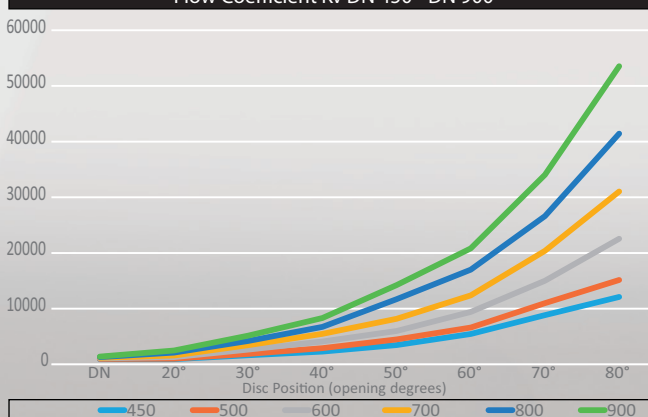
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Ø LEAKAGE DAMPER VALVE

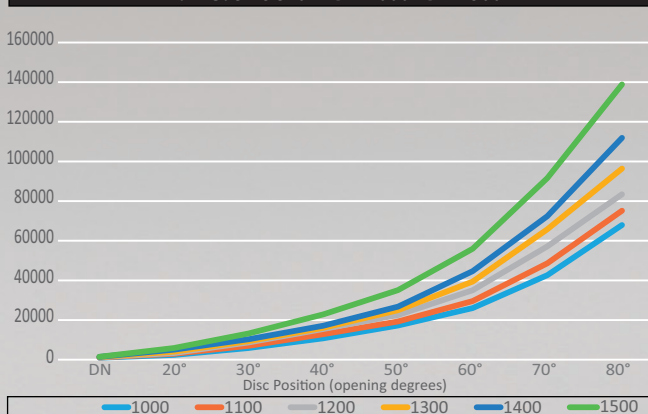
Flow Coefficient Kv DN150 - DN 400



Flow Coefficient Kv DN 450 - DN 900



Flow Coefficient Kv DN 1000 - DN 1500

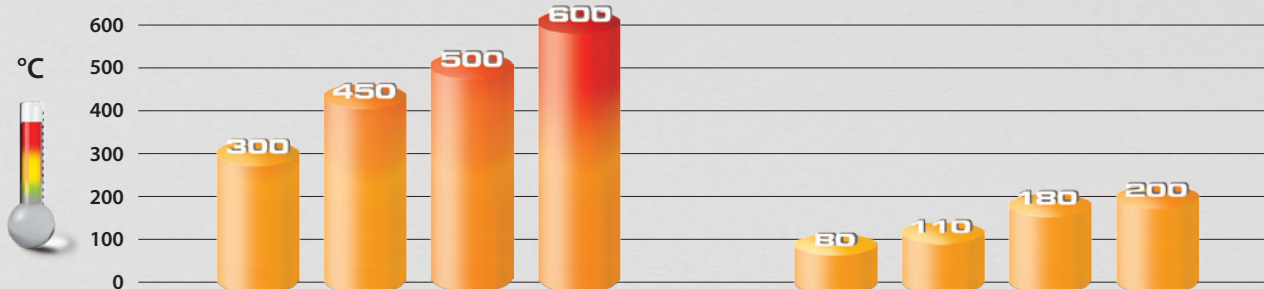


Body and disc material

S275JR	S355JR	AISI 304	AISI 316
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Seat and packing material

NBR	EPDM	FPM	Silicone
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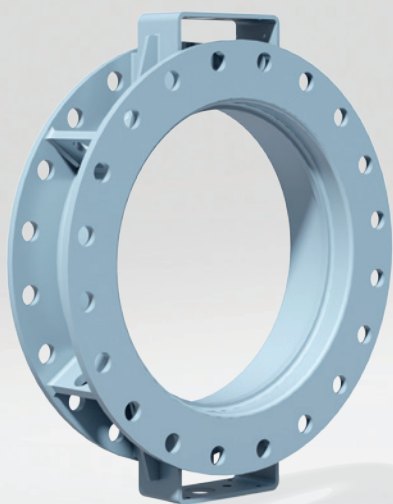


* Verificare compatibilità chimica dei materiali con fluido di processo.
 Chemical suitability of construction material to be verified according to process fluid.

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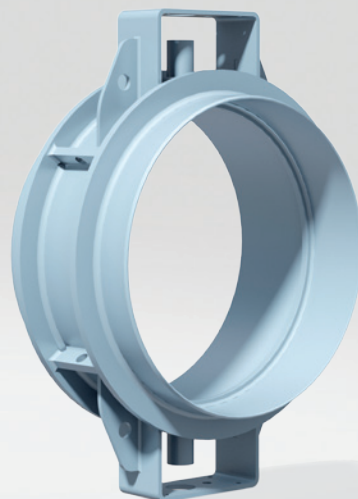
BODY STYLES



Flanged

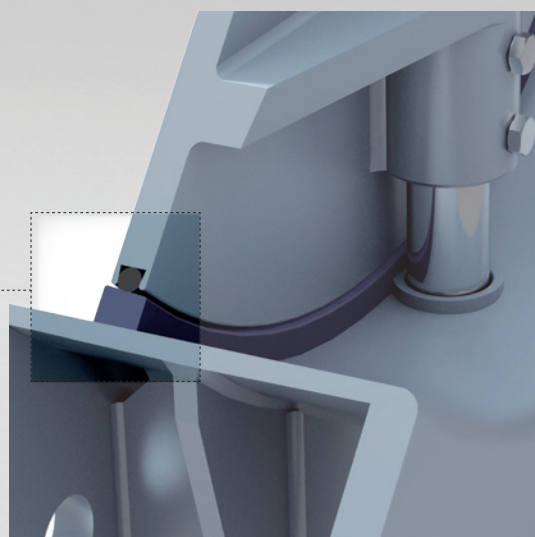
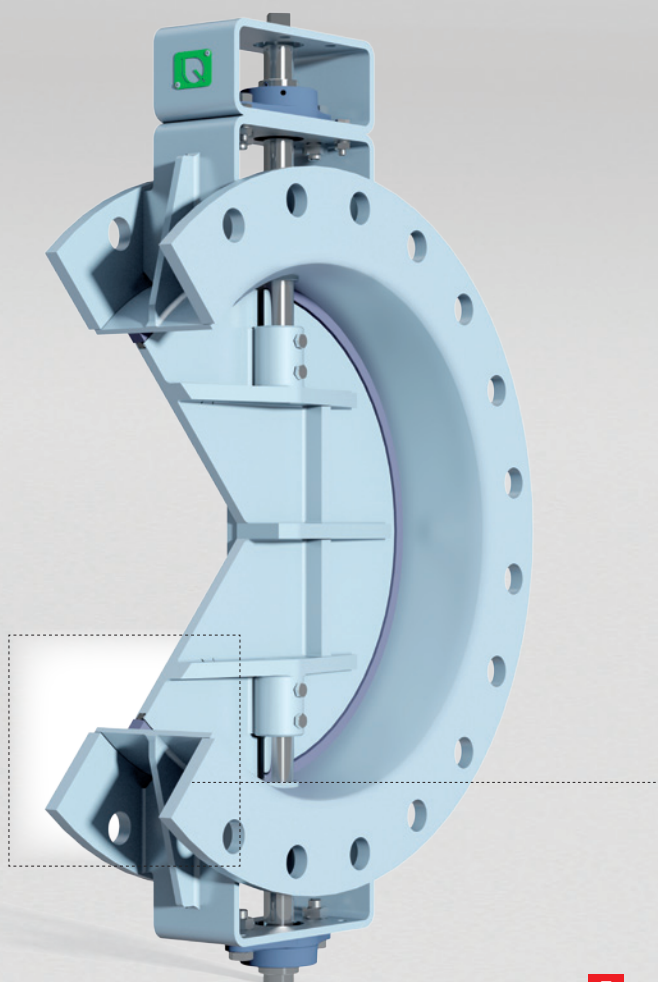


Wafer



Butt Weld

SEAT STYLES

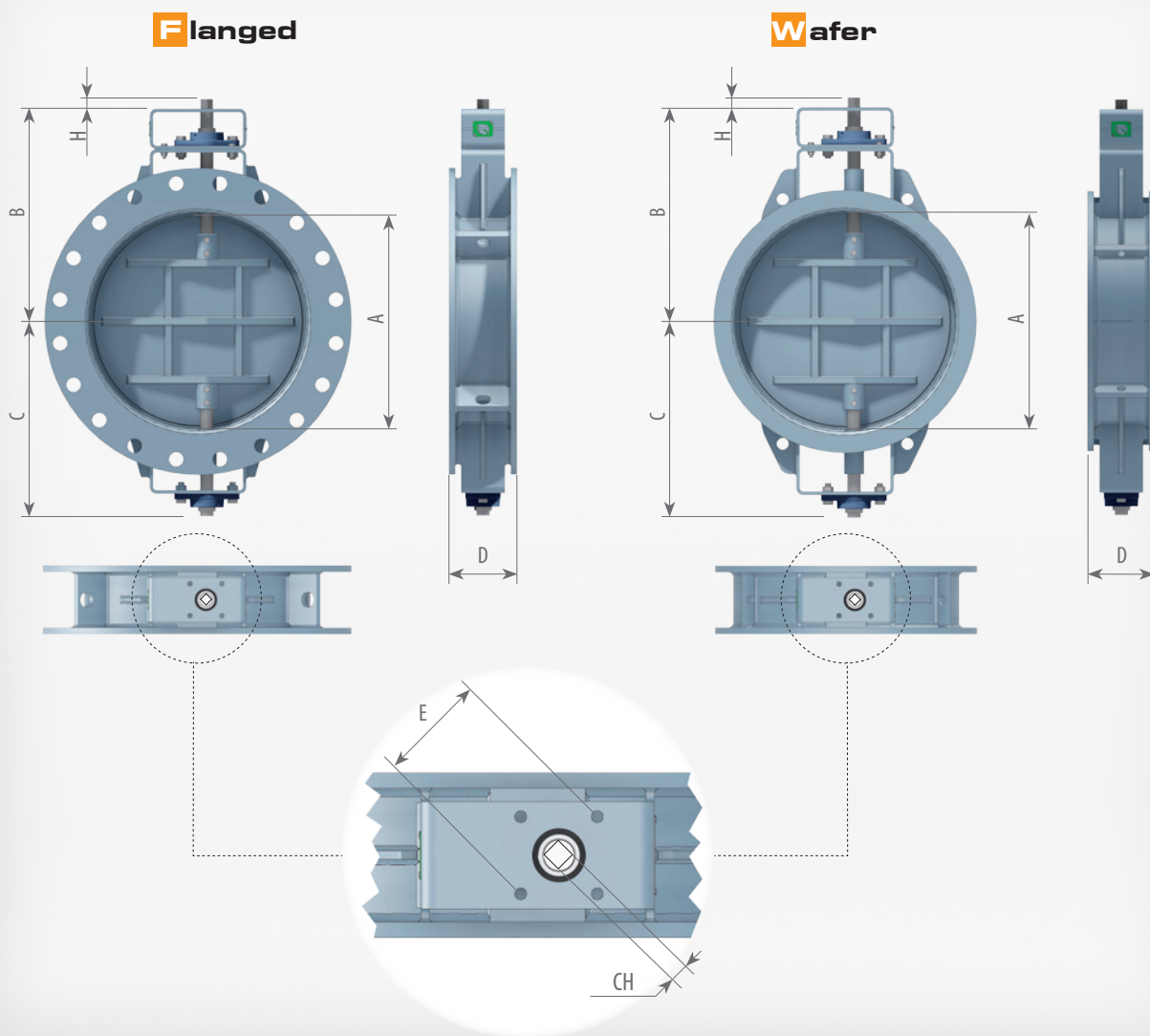


COD. 9		
Tenuta perfetta - Ø Leakage		
DN	CLASS	VALUE (FCI 70-2)
from 200 to 1500	VI	Total Tightness



Ø LEAKAGE DAMPER VALVE

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* Diametri inferiori a DN 200 o superiori a DN 1500 su richiesta.
DN below 200 or above 1500 available upon request.

DN	P. MAX (bar)	A	B	C	D	E	CH	H	WEIGHT	
									FLANGED	WAFER
200	3	211	335	298	140	F07	14	17	24	21
250	2	265	363	326	140	F07	14	17	35	30
300	2	316	388	351	140	F07	14	17	42	37
350	2	350	405	298	140	F10	22	20	46	40
400	2	400	429	326	140	F10	22	20	59	50
450	1	450	488	351	190	F10	22	20	65	55
500	1	500	513	467	190	F10	22	20	90	78
600	1	600	561	515	190	F10	22	20	120	102
700	1	700	611	565	190	F10	22	20	155	135
800	0,5	800	661	615	190	F10	22	20	174	151
900	0,5	900	803	718	240	F12/F14	27	25	193	
1000	0,5	1000	853	768	240	F12/F14	27	25	265	
1100	0,5	1100	903	818	240	F12/F14	27	25	290	
1200	0,5	1200	953	868	240	F12/F14	27	25	320	
1300	0,2	1300	1003	918	240	F12/F14	27	25	338	
1400	0,2	1400	1053	968	240	F12/F14	27	25	403	
1500	0,2	1500	1103	1018	240	F12/F14	27	25	436	

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.

SERIES 7

**Supporto Cuscinetto
Bearing Support**
- Ghisa / Cast Iron

Viteria / Bolting
- Stainless Steel Grade A2

Albero Superiore / Upper Shaft
- 316 SS

O-Ring
- EPDM
- NBR
- FKM
- Silicone

Guarnizione / Gasket
- EPDM
- NBR
- FKM
- Silicone

Bracket
- Carbon Steel

Viteria / Bolting
- N°4 Stainless Steel Grade A2

Targhetta / Name Plate

Corpo / Body
- Carbon Steel
- 304 SS
- 316 SS

Lente / Disc
- Carbon Steel
- 304 SS
- 316 SS

O-Ring
- EPDM
- NBR
- FKM
- Silicone

Albero Inferiore / Lower Shaft
- 316 SS

**Supporto Cuscinetto
Bearing Support**
- Ghisa / Cast Iron

Viteria / Bolting
- Stainless Steel Grade A2

Viteria / Bolting
- Stainless Steel Grade A4

Targhetta / Name Plate



AMMtech



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