

AMM 250 SERIES 2

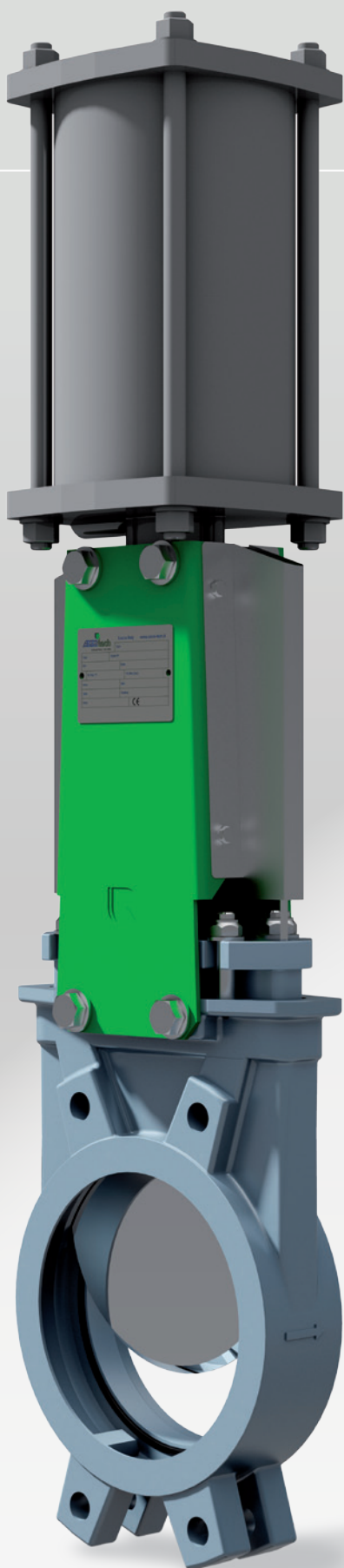


AMMtech
INDUSTRIAL VALVES



AMM 250

KNIFE GATE VALVE



250

SERIES 2

AMM 250

VALVOLA A GHIGLIOTTINA

AMM 250

KNIFE GATE VALVE

■ **Campi di Applicazione**

- Industria cartaria
- Impianti di Depurazione
- Trattamento acque
- Biogas
- Industria Chimica
- Centrali elettriche
- Settore alimentare
- Cementifici
- Trasporto pneumatico

■ **Condizioni d'Esercizio**

- **Pressione massima d'esercizio**

- Da DN 50 a DN 250: 10 bar
- Da DN 300 a DN 450: 7 bar
- Da DN 500 a DN 600: 4 bar
- Da DN 700 a DN 900: 2 bar
- Da DN 1000 a DN 1200: 1 bar

- **Massima temperatura di esercizio:**

NBR: 80°C, EPDM: 110°C, FKM (viton): 170°C, PTFE: 200°C

■ **Caratteristiche Generali**

- Diametro da DN 50 a DN 1200
- Servizio ON/OFF o modulante
- Connessioni SEMI-LUG: EN 1092-1 PN10
- Unidirezionale
- Manuali e motorizzate con attuazione pneumatica o elettrica

■ **Materiali**

- Corpo: Ghisa Sferoidale GGG40, CF8M
- Lama: AISI 304, AISI 316
- Tenuta sede: NBR, FKM (viton), Metallo/Metallo, EPDM, PTFE
- Packing: PTFE+SILICONE
- Stelo: AISI 420, AISI 316
- Placche di supporto: Acciaio al Carbonio, AISI 304
- Protezioni Lama in AISI

■ **Standard applicabili**

- Secondo EN 12516-1, EN 736-1, EN 736-2, EN 736-3
- Materiali secondo EN 1503-1, EN 1503-2
- Connessioni secondo EN 1092-1
- Marcatura secondo EN 19

■ **Direttive Applicabili**

- Dichiarazione di Conformità con:
Direttiva Macchine 2006/42/CE
Dichiarazione di Conformità PED 97/23/CE
Dichiarazione di Conformità ATEX 94/9/CE

Group 2 Category 3 Zone 2 Gas and 22 Dust

■ **Verniciatura**

- GGG40: RAL 7031
- Acciaio al Carbonio: RAL 6018

■ **Test**

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

■ **Attuazione e Accessori**

- Cilindro Pneumatico (doppio effetto)
- Attuatore Elettrico
- Posizionatore
- Elettrovalvola
- Finecorsa
- Leva
- Volantino con catena

■ **Applications**

- Pulp and Paper Industry
- Waste Water Plants
- Biogas
- Water Treatment
- Chemical Industry
- Power Plants
- Food and Beverage
- Cement Industry
- Pneumatic Transport

■ **Working Conditions**

- **Maximum Working Pressure**

- DN 50 to DN 250: 10 bar
- DN 300 to DN 450: 7 bar
- DN 500 to DN 600: 4 bar
- DN 700 to DN 900: 2 bar
- DN 1000 to DN 1200: 1 bar

- **Maximum Working Temperature:**

NBR: 80°C, EPDM: 110°C, FKM (viton): 170°C, PTFE: 200°C

■ **General Characteristics**

- Size: DN 50 to DN 1200
- ON/OFF or MODULATING service
- Semi-Lug Connection: EN 1092-1 PN10
- Unidirectional Tightness
- Operated by Handwheel, Pneumatic or Electric actuators

■ **Materials**

- Body: Ductile Iron GGG40, CF8M
- Blade: 304SS, 316SS
- Seat: NBR, FKM (viton), Metal/Metal, EPDM, PTFE
- Packing: PTFE+Silicone
- Stem: 420SS, 316SS
- Support Plate: Carbon Steel, 304SS
- Blade Protection in Stainless Steel

■ **Applicable Standards**

- Designed according to EN 12516-1, EN 736-1, EN 736-2, EN 736-3
- Materials according to EN 1503-1, EN 1503-2
- End Connections as per EN 1092-1
- Marking according to EN 19

■ **Applicable Directives**

- Declaration of Conformity in Compliance with:
Machinery Directive 2006/42/CE
European Directive PED 97/23/CE
European Directive ATEX 94/9/CE

Group 2 Category 3 Zone 2 Gas and 22 Dust

■ **Coating**

- GGG40: RAL 7031 coating
- Carbon Steel: RAL 6018 coating

■ **Test**

- According to AMMtech Quality Control Plan QCP00
- According to EN 12266-1, EN 12266-2

■ **Driving Systems and Instrumentation**

- Pneumatic Cylinder (double acting)
- Electric Actuator
- Positioner
- Solenoid valves
- Limit switches
- Lever
- Chain Handwheel



FLOW RATES FOR KNIFE GATE VALVE

FLOW COEFFICIENT KV

Flow rate (m³/h) for standard bore

DN	Pressure Drop (bar)				
	0,2	0,4	0,6	0,8	1
50	98	136	163	194	216
65	135	187	219	271	317
80	196	306	373	429	498
100	437	614	724	819	937
125	715	934	1141	1346	1552
150	931	1346	1532	1908	2069
200	1606	2364	2993	3412	4024
250	2488	3506	4421	5159	5677
300	4127	5671	6792	7836	8769
350	5346	7368	8741	9741	11660
400	6695	9309	11638	13620	15550
450	8355	12607	14551	16510	18640
500	9709	14556	17460	19420	22390
600	14536	19409	25229	29150	34210

Pressure Rating

DN	Max Pressure Rating (bar)
50 to 250	10
300 to 450	7
500 to 600	4
700 to 900	2
1000 to 1200	1

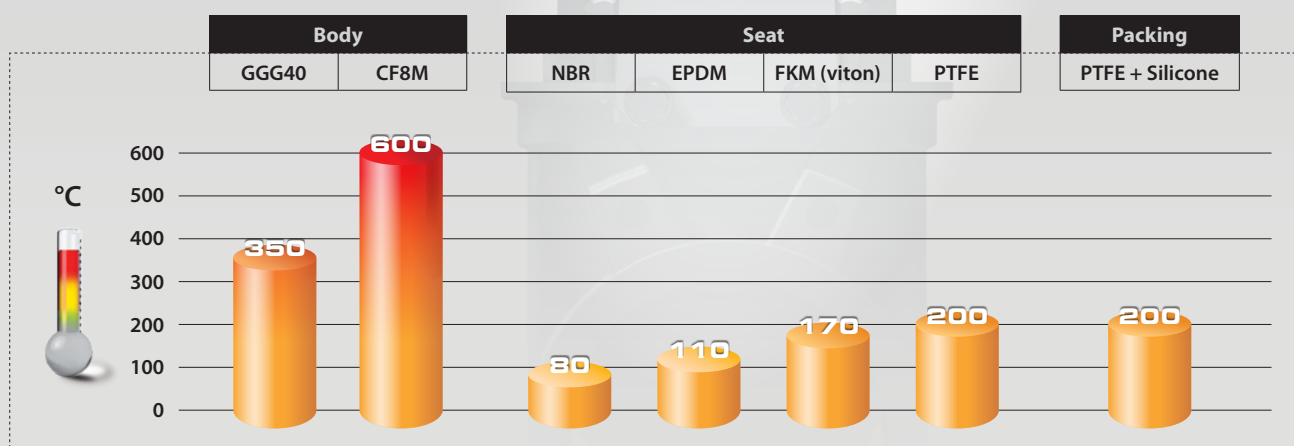
Flow rate (m³/h) for "V-PORT" type

DN	Pressure Drop (bar)				
	0,2	0,4	0,6	0,8	1
50	37	49	62	73	81
65	55	78	99	106	124
80	76	99	132	144	172
100	149	192	254	296	360
125	207	326	426	472	549
150	345	471	589	636	756
200	648	889	1040	1249	1469
250	886	1297	1567	1657	1990
300	1249	1766	2090	2588	3120
350	1466	2049	2942	3109	3816
400	2240	3516	4398	4966	4770
450	3213	4870	5547	6225	7315
500	4089	5880	7189	7980	9260
600	5840	7810	9340	11190	12940

KV Value

DN	50	65	80	100	125	150	200	250	300	350	400	450	500	600
Standard	209	314	506	933	1556	2069	4020	5681	8768	11653	15538	18475	22360	34020
"V-PORT" type	77	122	171	341	538	733	1456	1969	3100	3799	4674	7305	9243	12640

VALVE MATERIAL



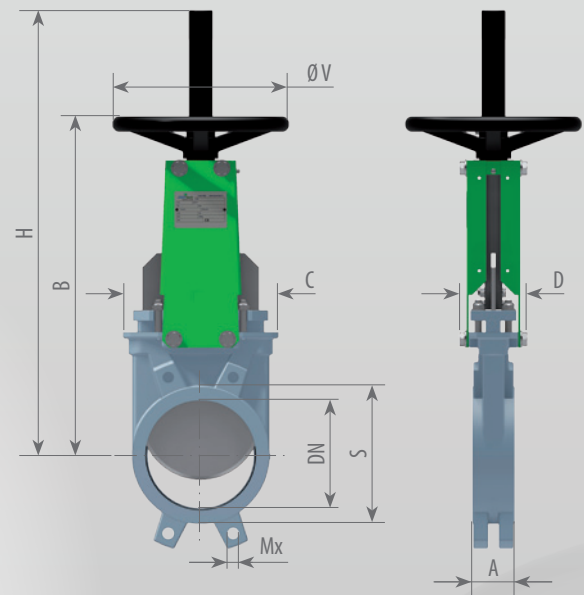
* Verificare compatibilità chimica dei materiali con fluido di processo.
Chemical suitability of construction material to be verified according to process fluid.

KNIFE GATE VALVE

SERIES 2

DN		Dimensions (mm)								Weight (kg)
mm	inch	A	B	C	D	S	Mx	Ø V	H	
50	2"	40	284	136	85	95	4-M16	180	375	7
65	2½"	40	307	151	85	110	4-M16	180	420	8
80	3"	50	335	170	85	127	8-M16	200	450	11
100	4"	50	377	190	85	148	8-M16	200	512	12
125	5"	50	424	212	95	174	8-M16	220	570	15
150	6"	60	476	230	95	199	8-M20	250	665	21
200	8"	60	595	286	109	250	8-M20	300	825	29
250	10"	70	687	338	109	308	12-M20	350	1000	46
300	12"	70	794	388	109	360	12-M20	350	1155	66
350	14"	96	903	460	290	416	16-M20	400	1310	92
400	16"	100	979	520	290	466	16-M24	500	1475	125
450	18"	106	1107	585	290	525	20-M24	-	1598	190
500	20"	110	1216	635	290	584	20-M24	-	1838	225
600	24"	110	1419	720	290	664	20-M27	-	2102	245

Gear for Valves from DN 450



HANDWHEEL

Stem Protective Tube
- Epoxy-Coated Carbon Steel

Bush

Handwheel
- GGG 40

Friction Washer
- Brass

Top Support
- Carbon Steel

Stem Nut
- Bronze

Stem
- 420 SS
- 316 SS

Gate
- 304 SS
- 316 SS

Packing Gland
- GGG 40
- CF8M

Support Plate
- Carbon Steel
- 304 SS (Upon Request)

Sealing Ring
- NBR
- FKM (Viton)
- PTFE
- EPDM

Retainer Ring
- 304 SS
- 316 SS

Nuts and Bolts
- 304 SS

Support Plate
- Carbon Steel
- 304 SS (Upon Request)

Packing
- PTFE + Silicone

Body
- GGG 40
- CF8M

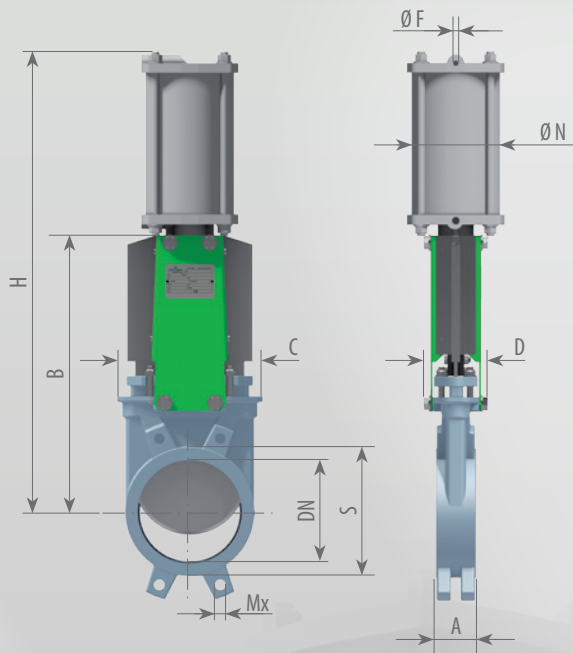
AMMtech si riserva il diritto di apportare modifiche ai propri prodotti in qualunque momento.
AMMtech reserves the right to modify its products at any time.



PNEUMATIC KNIFE GATE VALVE

AMM 250

DN		Dimensions (mm)									Weight (kg)
mm	inch	A	B	C	D	S	Mx	Ø F	Ø N	H	
50	2"	40	242	136	85	95	4-M16	1/4"	80	430	7
65	2 1/2"	40	266	151	85	110	4-M16	1/4"	80	460	9
80	3"	50	292	170	85	127	8-M16	1/4"	80	510	12
100	4"	50	337	190	85	148	8-M16	1/4"	100	570	14
125	5"	50	374	212	95	174	8-M16	1/4"	125	660	22
150	6"	60	426	230	95	199	8-M20	1/4"	125	720	25
200	8"	60	535	286	109	250	8-M20	1/4"	160	890	38
250	10"	70	626	338	109	308	12-M20	1/4"	200	1120	65
300	12"	70	733	388	109	360	12-M20	1/4"	200	1230	77
350	14"	96	837	460	290	416	16-M20	3/8"	250	1370	195
400	16"	100	946	520	290	466	16-M24	3/8"	250	1570	240
450	18"	106	1042	585	290	525	20-M24	1/2"	250	1720	306
500	20"	110	1153	635	290	584	20-M24	1/2"	300	1850	365
600	24"	110	1355	720	290	664	20-M27	1/2"	300	2150	420



DOUBLE ACTING PNEUMATIC ACTUATOR

Pneumatic Cylinder
- Double Effect

Stem
- Chrome Steel

Gate
- 304 SS
- 316 SS

Packing Gland
- GGG 40
- CF8M

Support Plate
- Carbon Steel
- 304 SS (Upon Request)

Sealing Ring
- NBR
- FKM (Viton)
- PTFE
- EPDM

Retainer Ring
- 304 SS
- 316 SS

Nuts and Bolts
- 304 SS

Support Plate
- Carbon Steel
- 304 SS (Upon Request)

Blade Protection
- Stainless Steel

Packing
- PTFE + Silicone

Body
- GGG 40
- CF8M

250

SERIES 2

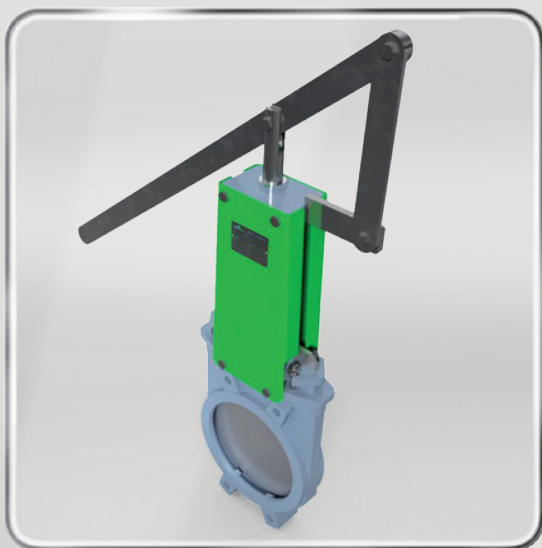
ACCESSORIES AND ACTUATIONS



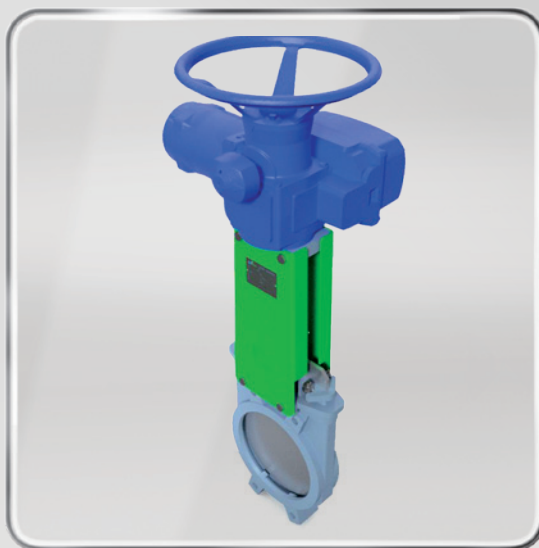
HANDWHEEL (non rising stem)



CHAIN HANDWHEEL



LEVER



ELECTRIC ACTUATOR



VALVOLA DI REGOLAZIONE CON PASSAGGIO "V-PORT"
"V-PORT" KNIFE-GATE VALVE



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