# AMM 743

## SERIE 7

Ammtech
industrial valves

# AMM 743

# TRIPLE OFFSET VALVE

## 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: 500°C**
**- Pressione massima d'esercizio: 5 bar**

La pressione massima varia al variare del diametro e della temperatura

## Caratteristiche generali
- Servizio ON-OFF o modulante
- Diametro da DN 100 a DN 800 (diametri inferiori a DN 100 e superiori a DN 800 su richiesta)
- Connessioni: WAFER o FLANGIATA PN6, PN10, ANSI 150, o a disegno
**- Classe di tenuta:**
**Classe VI secondo FCI 70-2**
**Rate B secondo EN 12266-1**
- Manuali e motorizzate con attuazione pneumatica o elettrica

## Materiali
- Carbon Steel: S275JR o equivalente
- S355J0WP (Corten A)
- 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, ASMEB16.34
- Materiali secondo EN 1503-1, EN 1503-2
- Connessioni secondo EN 1092-1, ASME B16.5, ASME B16.47
- Marcatura secondo EN 19
- Certificazione Processi di saldatura UNI EN ISO 15614-1 Ed. 2019

## 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 2014/34/UE

**Gruppo II Categoria 2 per Zona 1-2 Gas e 21-22 Polveri (II 2 GD)**

## Verniciatura
- In accordo agli standard AMMtech
- Altri a richiesta

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

## *Fields of application*
- *Fluids: Air, Gas, Fumes and Liquids*
- *Waste-to-energy plants and incineration systems*
- *Cogeneration*
- *Biomass and Biogas*
- *Power plants*
- *Boilers and burners*
- *Chemical and Petrochemical industry*
- *Thermal and Regenerative Oxidation plants*

## *Operating conditions*
***- Maximum operating temperature: 500°C***
***- Maximum operating pressure: 5 bar***

*Maximum pressure varies depending on diameter and temperature*

## *General features*
- *ON-OFF or modulating service*
- *Diameter from DN 100 to DN 800 (smaller than DN 100 and larger than DN 800 on request)*
- *Connections: WAFER or FLANGED PN6, PN10, ANSI 150, or custom design*
***- Leakage class:***
***VI class according to FCI 70-2***
***Rate B according to EN 12266-1***
- *Manual or actuated with pneumatic or electric operation*

## *Materials*
- Carbon Steel: S275JR or equivalent
- S355J0WP (Corten A)
- AISI 304
- AISI 316
- Others on request

## *Applicable standards*
- *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*
- *Connections according to EN 1092-1, ASME B16.5, ASME B16.47*
- *Marking according to EN 19*
- *Welding process certification UNI EN ISO 15614-1 Ed. 2019*

## *Applicable directives*
- *Declaration of conformity to Machinery Directive 2006/42/EC*
- *Declaration of conformity to PED Directive 97/23/EC*
- *Declaration of conformity to ATEX Directive 2014/34/EU*

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

## *Painting*
- *According to AMMtech standards*
- *Others on request*

## *Testing*
- *According to AMMtech Quality Control Plan QCP00*
- *According to ANSI/FCI70-2, EN 12266-1, EN 12266-2, EN 60534*

## *Actuation*
- *Pneumatic and electric actuators according to EN 15714-1, EN 15714-2, EN 15714-3*
- *Connections and actuators according to EN ISO 5210, EN ISO 5211*

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CE Ex

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# TRIPLE OFFSET VALVE

## FLOW COEFFICIENT

### Flow Coefficient KV

| DN | NPS | 90° | 80° | 70° | 60° | 50° | 40° | 30° | 20° | 10° |
|---|---|---|---|---|---|---|---|---|---|---|
| 150 | 6" | 1231 | 1054 | 734 | 443 | 290 | 184 | 99 | 45 | 5 |
| 200 | 8" | 2211 | 1962 | 1337 | 765 | 540 | 343 | 208 | 91 | 10 |
| 250 | 10" | 3521 | 3151 | 2096 | 1264 | 837 | 498 | 278 | 118 | 18 |
| 300 | 12" | 5440 | 4670 | 3206 | 1959 | 1320 | 875 | 501 | 200 | 26 |
| 350 | 14" | 7022 | 6064 | 4334 | 2571 | 1650 | 1036 | 630 | 244 | 30 |
| 400 | 16" | 9345 | 7992 | 5713 | 3333 | 2150 | 1428 | 811 | 342 | 35 |
| 450 | 18" | 11470 | 9927 | 7376 | 4488 | 2767 | 1700 | 1092 | 440 | 50 |
| 500 | 20" | 15017 | 12524 | 9288 | 5528 | 3690 | 2261 | 1317 | 515 | 63 |
| 600 | 24" | 21911 | 18827 | 12832 | 8067 | 5088 | 3385 | 2044 | 792 | 152 |
| 700 | 28" | 30289 | 26066 | 17567 | 10751 | 7099 | 4664 | 2796 | 1074 | 259 |
| 800 | 32" | 39494 | 34926 | 23067 | 14910 | 10353 | 5836 | 3516 | 1555 | 324 |

Kv = Qn/519* [(ρG*T1)/(Δp*p2)]^0,5 (Cv = Kv/0,8565)

where:

Qn [$m^3/h$] : Flow Rate of gas, related to 0 °C and 1013 mbar

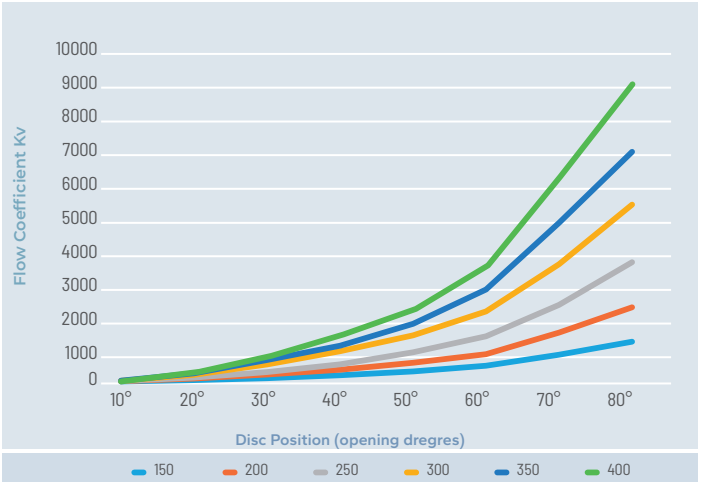
ρG [$kg/m^3$] : density of gases at 0 °C and 1013 mbar

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

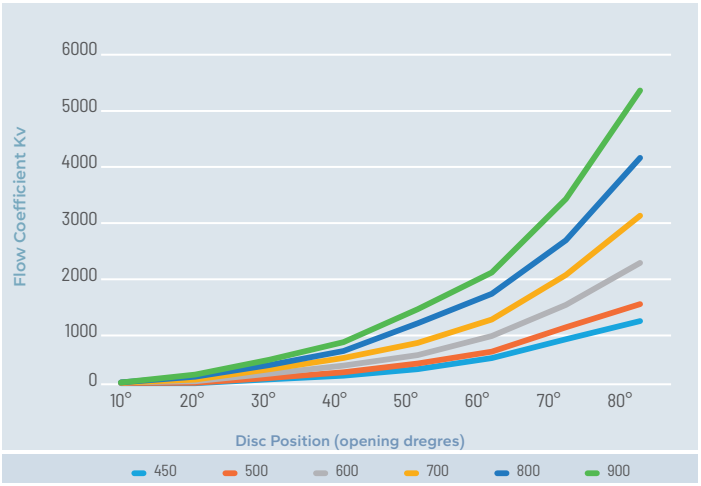
Δp [bar] : pressure drop in the valve

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

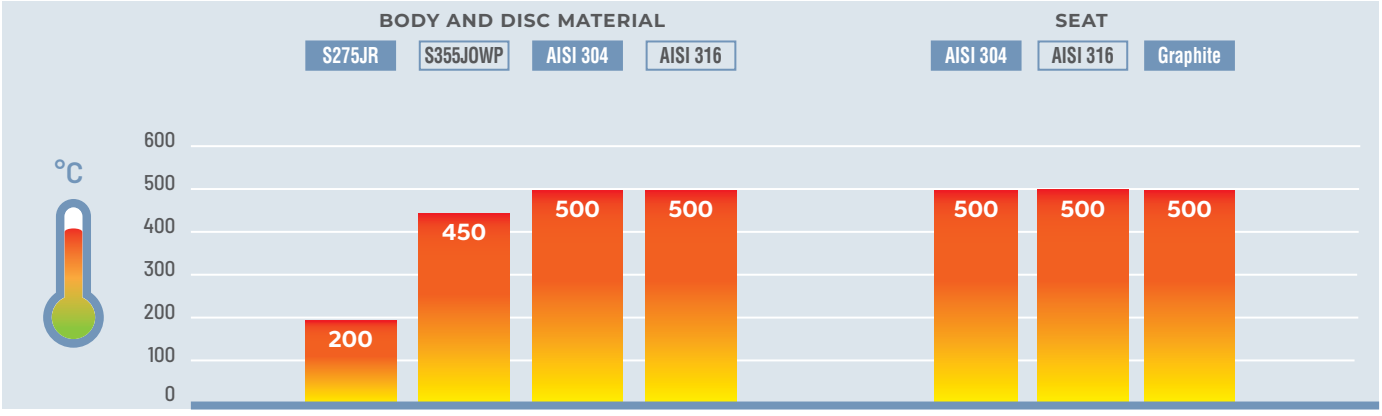
### Flow Coefficient Kv DN 150 - DN 400




### Flow Coefficient Kv DN 450 - DN 800



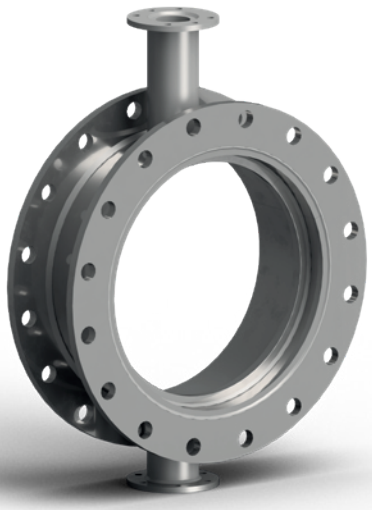

## VALVE MATERIAL




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

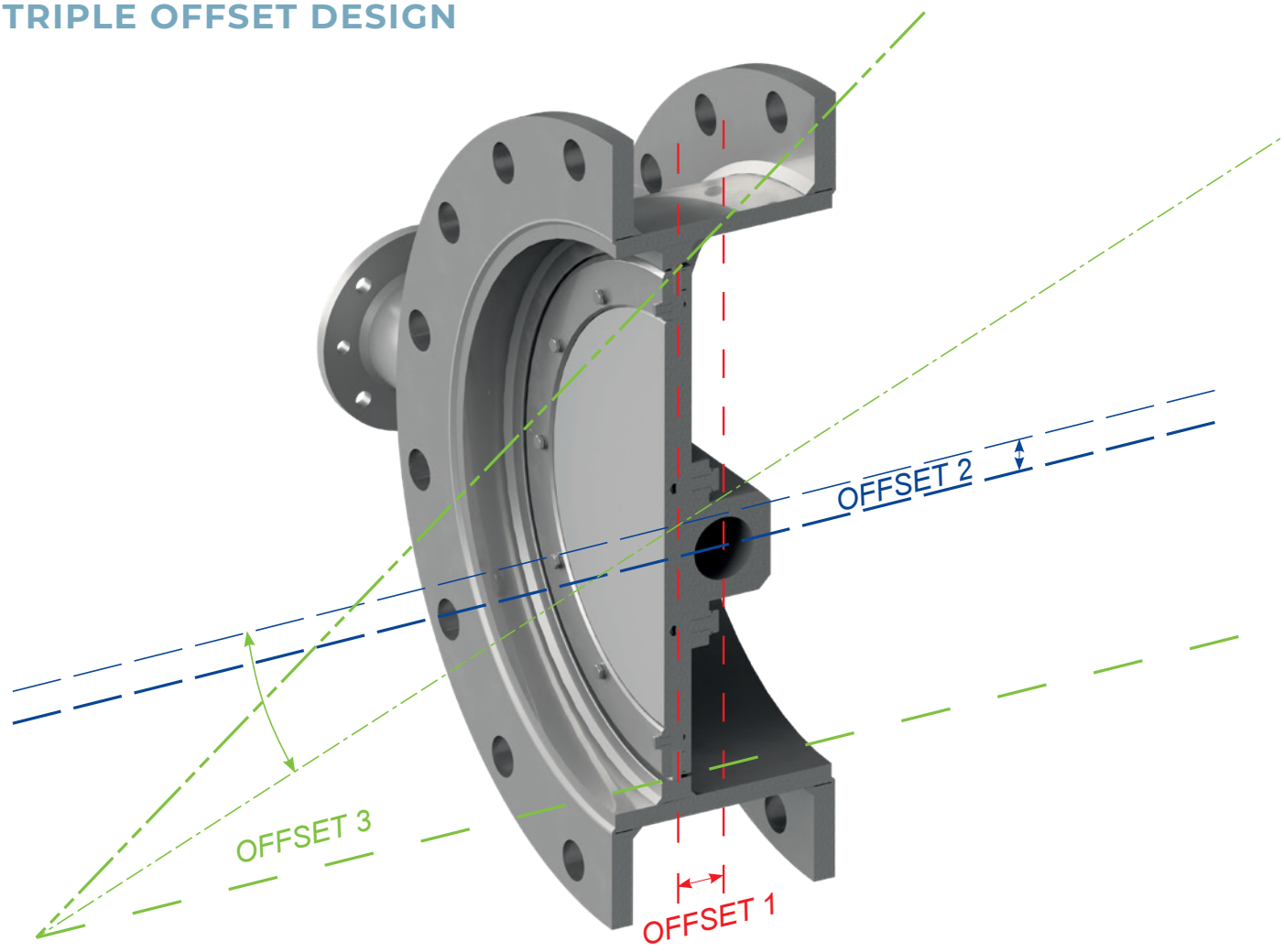
## BODY STYLES

FLANGED



WAFER

## TRIPLE OFFSET DESIGN



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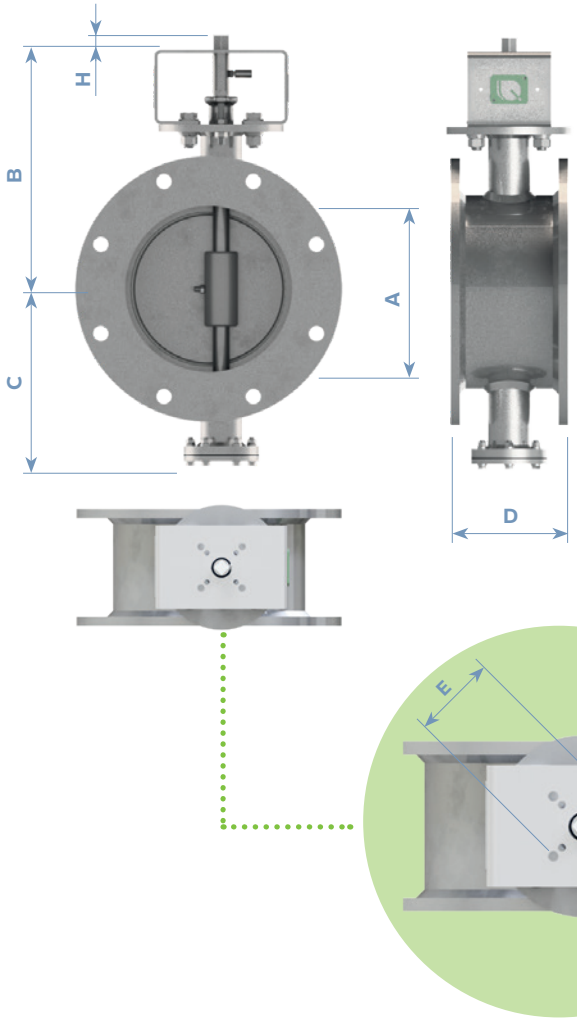
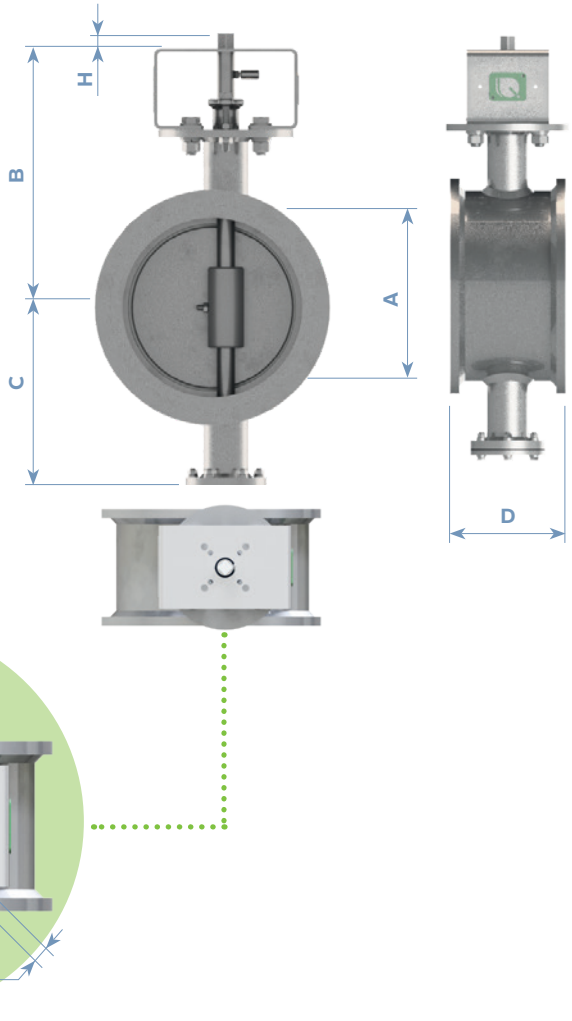
# TRIPLE OFFSET VALVE

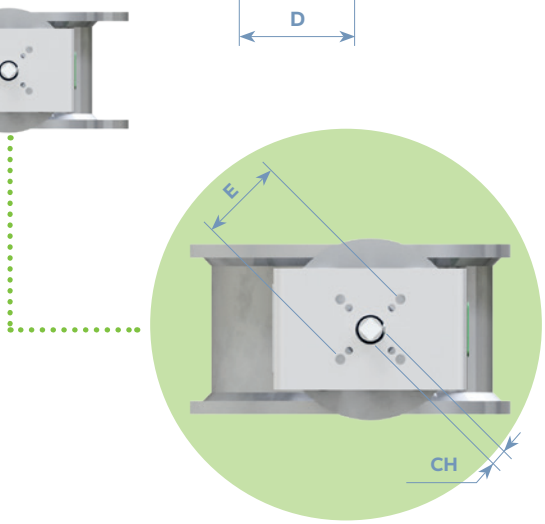
## TECHNICAL DATA

FLANGED

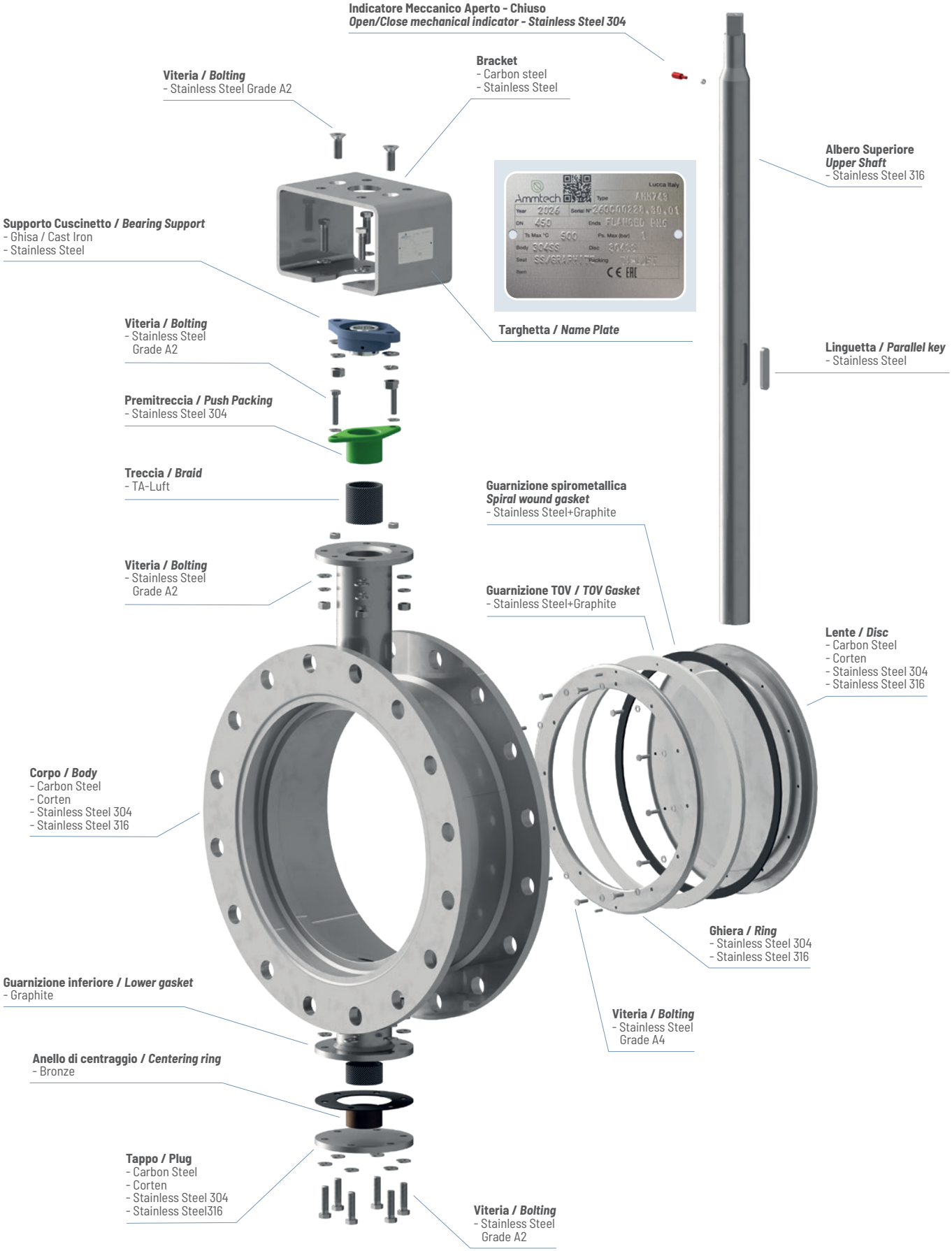



WAFER




| DN | P. MAX (bar) | A | B | C | D | E | CH | H | WEIGHT | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | FLANGED | WAFER |
| 100 | 3 | 100 | 207 | 150 | 100 | F05/F07 | 11 | 11 | 15 | 12 |
| 150 | 3 | 150 | 240 | 180 | 140 | F07/F10 | 14 | 14 | 21 | 18 |
| 200 | 3 | 200 | 290 | 210 | 140 | F07/F10 | 14 | 14 | 25 | 22 |
| 250 | 2 | 250 | 320 | 250 | 140 | F07/F10 | 22 | 20 | 34 | 30 |
| 300 | 2 | 300 | 350 | 280 | 140 | F07/F10 | 22 | 20 | 42 | 37 |
| 350 | 2 | 350 | 380 | 320 | 140 | F10/F14 | 27 | 25 | 46 | 40 |
| 400 | 2 | 400 | 400 | 350 | 140 | F10/F14 | 27 | 25 | 61 | 53 |
| 450 | 1 | 450 | 430 | 380 | 190 | F10/F14 | 27 | 30 | 80 | 70 |
| 500 | 1 | 500 | 450 | 400 | 190 | F10/F14 | 27 | 30 | 99 | 89 |
| 600 | 1 | 600 | 550 | 500 | 190 | F14/F16 | 36 | 35 | 164 | 143 |
| 700 | 1 | 700 | 600 | 550 | 190 | F14/F16 | 36 | 35 | 203 | 177 |
| 800 | 0,5 | 800 | 650 | 600 | 190 | F14/F16 | 36 | 35 | 230 | 200 |


Indicatore Meccanico Aperto - Chiuso
Open/Close mechanical indicator - Stainless Steel 304
Bracket
- Carbon steel
- Stainless Steel
Viteria / Bolting
- Stainless Steel Grade A2
Albero Superiore
Upper Shaft
- Stainless Steel 316
Supporto Cuscinetto / Bearing Support
- Ghisa / Cast Iron
- Stainless Steel
Targhetta / Name Plate
Linguetta / Parallel key
- Stainless Steel
Viteria / Bolting
- Stainless Steel
Grade A2
Premitreccia / Push Packing
- Stainless Steel 304
Treccia / Braid
- TA-Luft
Guarnizione spirometallica
Spiral wound gasket
- Stainless Steel+Graphite
Viteria / Bolting
- Stainless Steel
Grade A2
Guarnizione TOV / TOV Gasket
- Stainless Steel+Graphite
Lente / Disc
- Carbon Steel
- Corten
- Stainless Steel 304
- Stainless Steel 316
Corpo / Body
- Carbon Steel
- Corten
- Stainless Steel 304
- Stainless Steel 316
Ghiera / Ring
- Stainless Steel 304
- Stainless Steel 316
Guarnizione inferiore / Lower gasket
- Graphite
Viteria / Bolting
- Stainless Steel
Grade A4
Anello di centraggio / Centering ring
- Bronze
Tappo / Plug
- Carbon Steel
- Corten
- Stainless Steel 304
- Stainless Steel316
Viteria / Bolting
- Stainless Steel
Grade A2

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industrial valves

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