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A3.622

# Ball valves

## AISI 316 F/F THREADED END

***YES:*** *for services with frequent actuation; suitable for installing of manual, electric and pneumatic servo commands.*

***NO:*** *for steam, for choking and regulation of the flow.*

### *Actuators*

- *Double acting and single acting pneumatic actuators*
- *Electric actuators*
- *Gear box*

*In conformity with directive 2014/68/UE (ex 97/23/CE PED)*

***Design and testing standards*** *(correspondences):*

*Threading: ISO 228-1, BS (BSP).*
*Design: EN12516, ISO 5211*
*Testing: EN 12266 cat. A (ISO 5208 cat. A)*

II 2 GD c T2

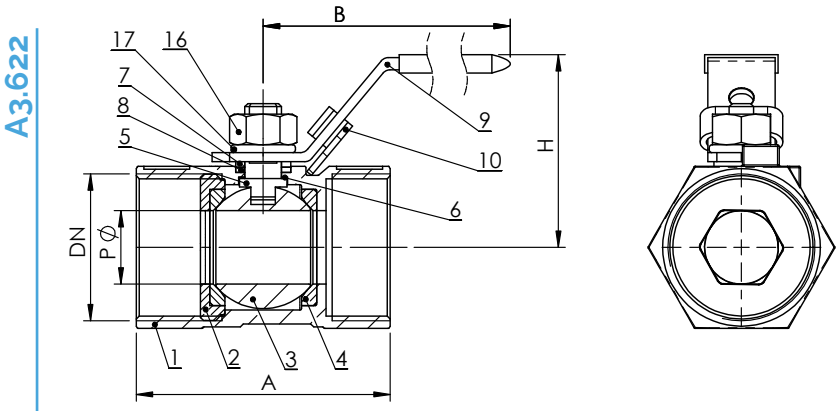
### *Reduced bore*

**A3.622**

*Body: Stainless steel*
*Ball: Stainless steel*
*Stem: Stainless steel*
*Temp: -25 +180 °C*

# AISI 316 F7F THREADED END BALL VALVES

A3.622




## Dimensioni (mm) / *Dimensions (mm)*

| DN | 1/4" | 3/8" | 1/2" | 3/4" | 1" | 1" 1/4 | 1" 1/2 | 2" |
|---|---|---|---|---|---|---|---|---|
| P | 5 | 7 | 9.5 | 12.5 | 16 | 20 | 25 | 32 |
| A | 40 | 45 | 56 | 59 | 71 | 76 | 85 | 99 |
| B | 67 | 67 | 93 | 93 | 103 | 103 | 128 | 128 |
| H | 32 | 33 | 43 | 45 | 48 | 58 | 67 | 74 |

## Peso (kg) / *Weight (kg)*

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| A3.622 | 0,09 | 0,12 | 0,19 | 0,28 | 0,39 | 0,58 | 0,85 | 1,35 |

## Coppia di manovra (Nm) / *Operating torque (Nm)*

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| Nm | 4 | 4 | 6 | 6 | 8 | 10 | 14 | 15 |

N.B. al fine di ottimizzare la scelta del servocomando si consiglia di moltiplicare il momento torcente per il coefficiente di sicurezza K=1,5
*N.B.: In order to choose the right actuator, we recommend multiplying the operating torque figure by a safety coefficient, K=1,5*

## Materiali / *Materials*

| | Componente - *Component* | Materiale - *Material* |
|---|---|---|
| 1 | Corpo - *Body* | Acciaio inox - *Stainless steel* ASTM A351 CF8M |
| 2 | Ghiera - *Cap* | Acciaio inox - *Stainless steel* ASTM A351 CF8M |
| 3 | Sfera - *Ball* | Acciaio inox - *Stainless steel* AISI 316 |
| 4 | Sede sfera - *Ball seat* | PTFE caricato - *Reinforced PTFE* |
| 5 | Asta - *Stem* | Acciaio inox - *Stainless steel* AISI 316 |
| 6 | Anello antifrizione - *Sliding washer* | PTFE |
| 7 | Ghiera - *Ring* | Acciaio inox - *Stainless steel* AISI 304 |
| 8 | Tenuta stelo - *Stem seal* | PTFE |
| 9 | Leva - *Lever* | AISI 304 con guaina in plastica - *AISI 304 with plastic sleeve* |
| 10 | Dispositivo di bloccaggio - *Lock device* | Acciaio inox - *Stainless steel* AISI 304 |
| 16 | Dado - *Nut* | Acciaio inox - *Stainless steel* AISI 304 |
| 17 | Rosetta elastica - *Spring washer* | Acciaio inox - *Stainless steel* AISI 304 |

## Pressione massima / *Maximum pressure*

| Articolo - *Article* | bar |
|---|---|
| A3.622 | 63 bar |
| B3.622 | 63 bar |
| C3.622 | 63 bar |
| C3.622 | 63 bar |
| 04.622 | 63 bar |

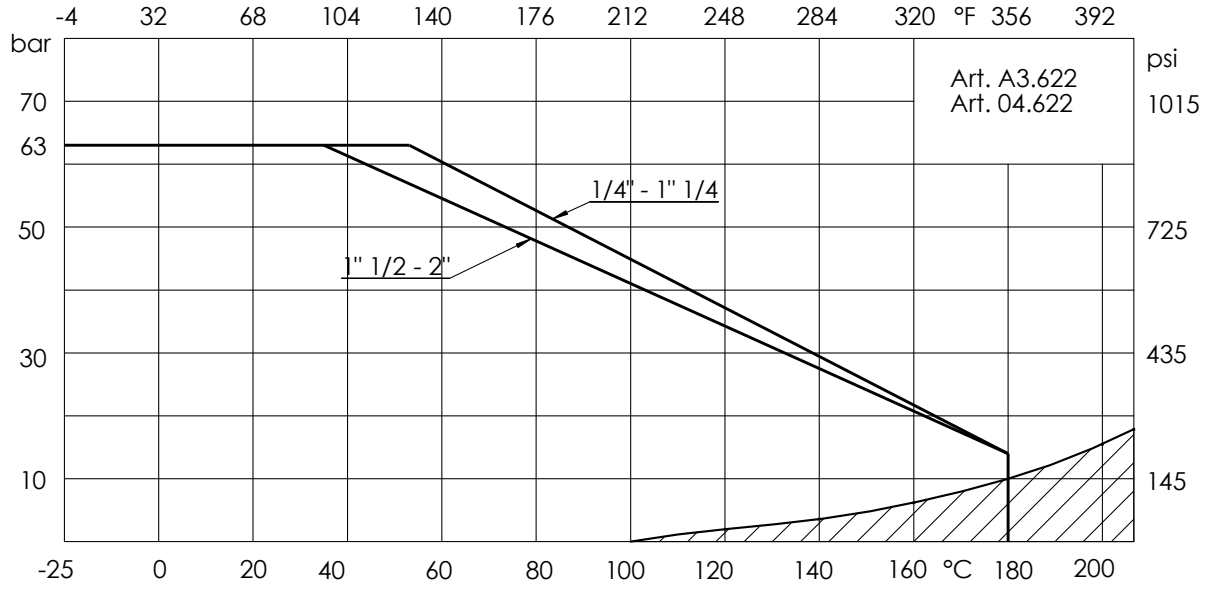
## Temperatura / *Temperature*

| Temperatura - *Temperature* | min °C | max°C - *Max°C* |
|---|---|---|
| | -25 | 180 |

Attenzione: la pressione massima di utilizzo diminuisce con la temperatura, vedi diagramma "Pressione/Temperatura"
*NB: the maximum working pressure decreases while the temperature increases; please refer to "pressure/temperature" chart*

## Diagramma Pressione/Temperatura - *Pressure/temperature chart*

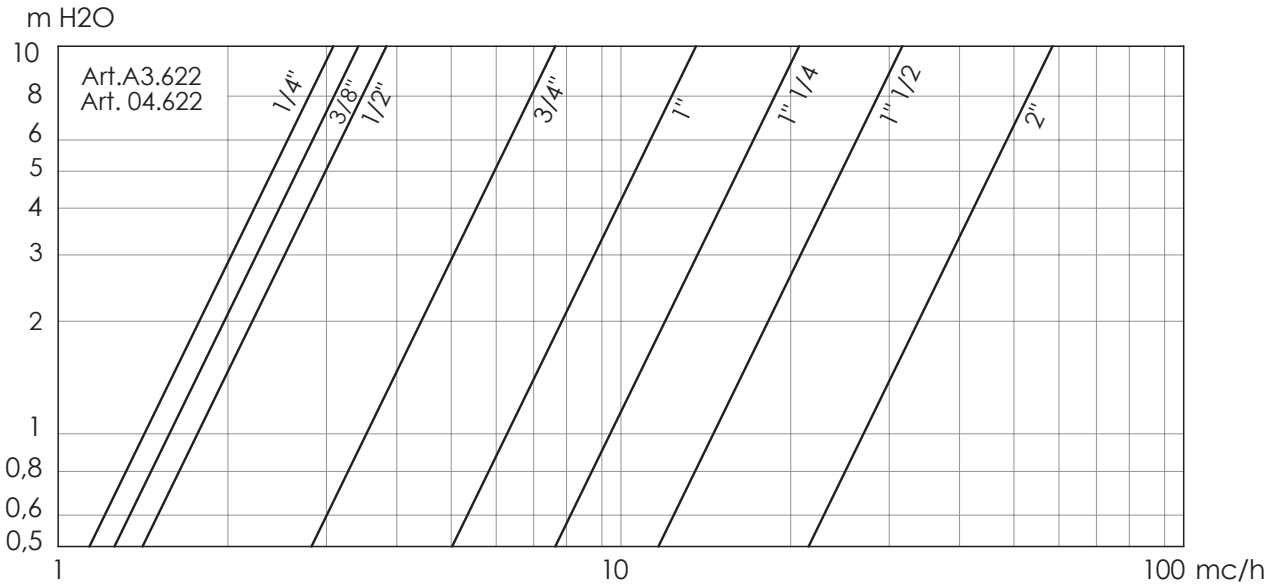
### Serie A3.622 / 04.622



**Perdite di carico** **Fluido: acqua** (1m H2O = 0,098bar) **- Perdite di carico ad otturatore completamente aperto**

***Head loss*** ***Fluid: water*** *(1m H2O = 0,098bar)* ***- Head loss with shutter fully opened***

## Serie A3.622 / 04.622




## Tabella Kv - DN / *Kv - DN chart*

| | DN | 1/4" | 3/8" | 1/2" | 3/4" | 1" | 1" 1/4 | 1" 1/2 | 2" | 2" 1/2 | 3" | 4" |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| A3.622 - 04.622 | Kv mc/h | 3,2 | 3,4 | 3,8 | 7,7 | 13,7 | 20,5 | 31,5 | 58 | - | - | - |
| B3.622 - C3.622 | Kv mc/h | 5,6 | 6,8 | 9,6 | 17,9 | 30 | 49 | 68 | 126 | 226 | 355 | 667 |

***STORING***

*Keep in a dry and closed place.*

***MAINTENANCE***

*The valve does not require maintenance.*

***RECOMMENDATIONS***

*Before carrying out maintenance, or dismantling the valve, be sure that the pipes, valves and liquids have cooled down, that the pressure has decreased and that the lines and pipes have been drained in case of toxic, corrosive, inflammable or caustic liquids.*
*Temperatures above 50˚C and below 0˚C might cause damage to people.*

***INSTALLATION***

*- Handle with care.*
*- The valve must be installed in either the ON or OFF position.*
*-Water hammers might cause damage and ruptures. Inclination, torsions and misalignments of the piping may subject the installed valve to excessive stresses. It is recommended that elastic joints be used in order to reduce such effects as much as possible.*
*-At sub-zero temperatures, the liquid between the body and ball may freeze, causing irreparable damage. If the valve is exposed to such conditions, insulation of the valve is recommended.*
*-It is recommended that the valve be operated periodically, to prevent the build-up of materials on the ball and the seats.*

***DISPOSAL***

*For valve operating with hazardous media (toxic, corrosive…) , if there is a possibility of residue remaining in the valve, take due safety precaution and carry out required cleaning operation. Personnel in charge must be trained and equipped with appropriate protection devices.*
*Prior to disposal, disassemble the valve and separate the component according to various materials. Please refer to product literature for more information. Forward sorted material to recycling (e.g. metallic materials) or disposal, according to local and currently valid legislation and under consideration of the environment.*