### Nomenclature 3-Pieces

#### DN 08 à 50

**Size 1/4" to 2"**

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*Socket gaine en standard - Threaded ball as standard*
PZ4: caractéristiques

Sièges PTFE +20% PEEK
Versions acier au carbone, 316L, 904L (UB6), 304L, Hastelloy C.

Version standard:
Perçage boule dans la rainure pour décompression du corps en position ouverte

Option:
Perçage boule coté amont pour augmenter la décompression en position fermée.

Agréments:
DESP 97/23/CE
TA-Luft (Conformité aux émanations fugitives)
AD Merkblatt 2000
Matériaux des sièges agréé FDA
Options:
ATEX 94/9/CE
Marquage π suivant TPED 99/36/CE

PZ4: technical data

20% PEEK filled PTFE seats
Carbon steel, 316L, 904L, 304L, Hastelloy C.

Standard version:
Ball drilling in the stem mark for cavity relief in the open position.

Option:
Upstream vent hole for cavity relief in the closed position.

Approvals:
PED 97/23/CE
TA-Luft (fugitive emissions)
AD Merkblatt 2000
Seat material FDA approved
Options:
ATEX 94/9/CE
π marking according to TPED 99/36/CE

Courbes Pression-Température

Temperature mini pour robinet en acier au carbone: -10°C / 14°F
Des solutions spécifiques sont disponibles pour les applications aux températures inférieures, veuillez nous consulter.

Pressure-Temperature Diagrams

Minimum temperature for carbon steel ball valves: -10°C / 14°F
For lower temperature, customer-specific solutions are available on request. Please contact us for more information.
A souder emboité

DN 15 à 65
Passage réduit

Socket Weld

Size 1/2" to 2"1/2
Reduced bore

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<th>ØB</th>
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<th>D</th>
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<th>ØH</th>
<th>ØI1</th>
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Données fournies pour information. Evolutions possibles.
E-mail: infos@meca-inox.com - Web: www.meca-inox.com

Values given for information. Changes possible.
# Nomenclature PS4/PZ4 Motorisé

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Size 1/4" to 2"
### PZ4 Motorisé

**Modèle TRUTORQ Simple Effet sur PZ4**

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**Modèle TRUTORQ Double Effet sur PZ4**

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<td>42</td>
<td>F04</td>
<td>TDA003</td>
<td>F04</td>
<td>149,5</td>
<td>69,5</td>
<td>38</td>
<td>49,5</td>
<td>181,5</td>
<td>52</td>
<td>70</td>
</tr>
<tr>
<td>32</td>
<td>1 1/4”</td>
<td>40</td>
<td>1 1/2”</td>
<td>54</td>
<td>F05</td>
<td>TDA003</td>
<td>F04</td>
<td>149,5</td>
<td>69,5</td>
<td>38</td>
<td>49,5</td>
<td>193,5</td>
<td>62</td>
<td>70</td>
</tr>
<tr>
<td>40</td>
<td>1 1/2”</td>
<td>50</td>
<td>2”</td>
<td>59</td>
<td>F05</td>
<td>TDA003</td>
<td>F04</td>
<td>149,5</td>
<td>69,5</td>
<td>38</td>
<td>49,5</td>
<td>198,5</td>
<td>62</td>
<td>70</td>
</tr>
<tr>
<td>50</td>
<td>2”</td>
<td>65</td>
<td>2 1/2”</td>
<td>73</td>
<td>F07</td>
<td>TDA005</td>
<td>F07</td>
<td>186,5</td>
<td>90,5</td>
<td>49</td>
<td>79,5</td>
<td>259,5</td>
<td>85</td>
<td>87</td>
</tr>
</tbody>
</table>

### PZ4 actuated

**Size 1/4” to 2”**

Données pour pression de service à: dp 7 bars Max et 6 bars d’air comprimé
Values given for service pressure at: dp 7 bars Max and 6 bars air supply

Données pour pression de service à: dp 7 bars Max et 6 bars d’air comprimé
Values given for service pressure at: dp 7 bars Max and 6 bars air supply

### PZ4 △ P: 7 bars

<table>
<thead>
<tr>
<th>DN</th>
<th>Air Moteur (Bar)</th>
<th>Double Effet - Double acting Code</th>
<th>Simple Effet - Spring return Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>10 (08-12)</td>
<td>6</td>
<td>KPN410 0411 2TDA003</td>
<td>KPN410 0411 2TDA003</td>
</tr>
<tr>
<td>15 F03</td>
<td>6</td>
<td>KPN410 0411 2TDA003</td>
<td>KPN410 0514 2TDA003</td>
</tr>
<tr>
<td>20 F04</td>
<td>6</td>
<td>KPN420 0411 2TDA003</td>
<td>KPN420 0514 2TDA003</td>
</tr>
<tr>
<td>25 F04</td>
<td>6</td>
<td>KPN420 0411 2TDA003</td>
<td>KPN420 0514 2TDA003</td>
</tr>
<tr>
<td>32 F05</td>
<td>6</td>
<td>KPN432 0411 2TDA003</td>
<td>KPN432 0514 2TDA003</td>
</tr>
<tr>
<td>40 F05</td>
<td>6</td>
<td>KPN432 0411 2TDA003</td>
<td>KPN432 0514 2TDA003</td>
</tr>
<tr>
<td>50 F07</td>
<td>6</td>
<td>KPN450 0514 2TDA005</td>
<td>KPN450 0717 2TDA005</td>
</tr>
</tbody>
</table>
Test & essais

Directive DESP

Nos essais sont réalisés suivant les normes ISO 5208 et NF EN 12266-2 conforme à la Directive DESP.

Emanations fugitives
Nos robinets sont testés suivant la réquisition "TA LUFT" du 27/02/1986 point 3.1.8.4. Les résultats montrent que les taux de fuites sont nettement inférieurs aux niveaux exigés par les normes internationales, notamment à la TA LUFT_VDI 2440_2000.

Pression d’essai d’étanchéité Amont/Aval
Test pressure of the ball sealing

Eau / Water
détention de bulles / Bubble detection

Air (6 bars)

Le taux de fuite amont/aval, (appelé fuite en ligne), correspond à l’étanchéité entre le boisseau et les sièges.
Il est contrôlé en vérifiant qu’aucune bulle ne s’échappe du volume d’air sous pression (6 bars) emprisonné dans la sphère en position fermée.
Tous nos robinets sont catégorie "A"
aucune bulle = aucune fuite

Test

PED directive
According to Pressure European Directive (PED) 97/23/CE, all our ball valves are controlled while the production process. A final hydrostatic pressure test is achieved before dispatch or warehousing.

Our tests are conducted according ISO5208 international standard.

Fugitives Emissions:
Our valves are tested according TA Luft 02/27/1986 (Pt 3.1.8.4) requisition. Measurements show leakage rate much more lower than the level requested by international regulation such the TA LUFT_VDI 2440_2000

The downstream/upstream leakage rate, (called in-line leakage), is the sealing between the sphere and the seats
We check that absolutely no bubble escape from air pressure trapped in the volume inside closed ball.
All our valves are "A" Cat.
no bubble allowed mean no leak

Taux de fuite maximal admissible
Maximum leakage rate acceptable for ball sealing

<table>
<thead>
<tr>
<th>Cat. A</th>
<th>Cat. B</th>
<th>Cat. C</th>
<th>Cat. D</th>
</tr>
</thead>
<tbody>
<tr>
<td>0,03 mm / s x DN (Gaz/Gaz)</td>
<td>3 mm / s x DN (Gaz/ Gaz)</td>
<td>30 mm / S x DN (Gaz/ Gaz)</td>
<td></td>
</tr>
</tbody>
</table>

Tenue au vide

La conception et la fabrication de nos robinets 2-pièces et 3-pièces garantissent une tenue à un taux de vide d’au moins de 10⁻³ mbars. (soit 0.75 10⁻³ Torr)

Vacuum resistance

Design and manufacturing of our 2-piece and 3-piece ball valve allow a vacuum capability of at least 10⁻³ mbars (0.75 10⁻³ Torr)
Conception suivant NF EN 12516-1, DIN 3841, AINSI B16.34

Antistatique suivant ISO 7121, NF EN 1983

Garniture (6) chargée PTFE + carbone + graphite (DN < 50)
Ensemble bille / ressort (B) entre tige & corps et tige & boisseau (DN > 50)

Etanchéité primaire par rondelle de friction (4) en PTFE renforcé PEEK

Etanchéité secondaire par garniture de type "chevron" (6) permettant de maintenir l’étanchéité lorsque la pression vient du corps du robinet

Fouloir inox (24)

Rattrapage du jeu de la garniture par rondelles ressort (7)

Support siège (20) sur DN > 50

Design according NF EN 12516-1, DIN 3841, AINSI B16.34

Antistatic gland packing according to ISO 7121, NF EN 1983
Gland packing (6) in PTFE + carbon + graphite (DN < 50)
Ball / spring system (B) between stem & body and stem & ball (DN > 50)

Primary sealing with thrust seal (4) in PEEK reinforced PTFE

Secondary sealing with a "V-ring" packing (6) to allow sealing under pressure coming from the valve body

Gland in stainless steel (24)

Wear compensation thanks to the pair of spring washers (7)

Seat support (20) on DN > 50
Sièges et joints de corps

- Joints de corps encastrés (14) qui garantissent l’étanchéité intérieur / extérieur.
- Des profils de sièges conçus pour une étanchéité amont/aval optimale.
- Elasticité des sièges absorbant les contraintes de pression.
- Portée progressive qui optimise les couples de manœuvre.
- Collerette qui empêche l’extrusion des sièges quand la pression amont est supérieure à la pression aval.

Seats and body seals

- Encapsulated body seals (14) to guarantee internal / external highness.
- Seats profiles designed for upstream / downstream sealing.
- Seats elasticity to absorb pressure stress
- Progressive bearing to optimize operating torques.
- Ruff to avoid the seat to be taken away when upstream pressure is higher than downstream pressure.

PS4 DN 10 à 50
PS4 DN 1/4” to 2”

PS4 DN 65 to 150
PS4 DN 2”1/2 to 6”

Values given for information.
Changes possible.