



**ENERGY TAJHIZ MELAL**

تجهیزات انرژی، تأسیسات و اتوماسیون صنایع

کاتالوگ محصولات



### درباره شرکت Sart von Rohr

شرکت SART یک شرکت صنعتی معتبر فرانسوی با بیش از 90 سال تجربه تخصصی در طراحی و تولید شیرهای کنترلی، رگولاتورها، کنترلرهای بخار و تجهیزات کنترل سیال است که شهرت جهانی در بازار تجهیزات فرآیندی دارد. این برند با تمرکز بر مهندسی دقیق، کیفیت ساخت بالا و انطباق با استانداردهای بین‌المللی (مانند ISO 9001 و PED)، راهکارهایی را برای کنترل بخار، آب، روغن‌های حرارتی، گاز طبیعی و سایر سیالات صنعتی ارائه می‌کند که در صنایع نفت و گاز، نیروگاه‌ها، شیمیایی و صنایع حرارتی کاربرد وسیع دارند. تولیدات Sart von Rohr در فرانسه و ترکیه با بهره‌گیری از دانش تحقیق و توسعه پیشرفته و خط تولید مدرن ساخته می‌شوند، و به‌عنوان نمادی از دوام، دقت و کارایی شناخته می‌شوند.

محصولات این برند شامل شیرهای کنترل فشار و دبی، شیرهای سه راهه، کنترلرهای سطح، تله‌های بخار، و راهکارهای مدیریت سیال است که به مهندسان امکان می‌دهد تا عملکرد دقیق فرایند، افزایش ایمنی و بهینه‌سازی مصرف انرژی را در پروژه‌های صنعتی به‌صورت پایدار فراهم کنند. حضور جهانی Sart von Rohr و پشتیبانی فنی قوی آن را به انتخابی قابل اعتماد برای پروژه‌های سطح بالا تبدیل کرده است.

### مرجع تجهیزات انرژی، تأسیسات و اتوماسیون صنایع

انرژی تجهیز ملل، فروشگاه تخصصی تأمین تجهیزات انرژی، تأسیسات و احتراق است. از مشعل و کنترلر تا شیرآلات کنترلی و سیستم‌های هوشمند موتورخانه، هر آنچه برای راه‌اندازی، نگهداری و بهینه‌سازی سیستم‌های انرژی نیاز دارید، در یک مجموعه مهندسی شده در دسترس شماست.

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## Vanne de Régulation Pneumatique 2 Voies *2 Ways Pneumatic Control Valve*

VRX P



### Description

Vanne de régulation 2 voies pneumatique spécialement conçue pour la régulation des procédés sur une large gamme de fluides liquides ou gazeux comme l'eau, l'huile thermique, la vapeur d'eau, l'azote, le gaz naturel, etc...

Conçue pour l'industrie, les vannes de régulation type VRX P offrent une solution optimisée et modulaire pour de nombreux process avec une haute rangeabilité.

*Two ways pneumatic control valve especially designed for a wide range of fluids like water, thermal oil, steam, nitrogen, natural gas, etc...*

*These pneumatic control valves offer an optimized and modular solution for industrial process with high turndown.*

### Caractéristiques / Characteristics

Dimensions : DN25 (1") au/to DN300 (12")

Matières / Material:

- Acier / Steel 1.6220 – A352 LCB
- Acier / Steel 1.0619 – A216 WCB/WCC
- Acier / Steel 1.7357 – A217 WC6
- Inox / Stainless steel 1.4408 - A351 CF8M

Construction / Design VRXL :

- DN25 à / to DN300 : ASME B16.34 Class300 / EN 12516 PN40

Construction / Design VRXH :

- DN25 à / to DN50 : ASME B16.34 Class900 / EN 12516 PN160
- DN65 à / to DN300 : ASME B16.34 Class600 / EN 12516 PN100

Plage de température / Temperature range : - 60°C à + 500°C

Clapet parabolique et perforé (=%) / Parabolic and perforated plug (=%)

- Kvs 0,1 à / to 1440

Étanchéité par presse-étoupe PTFE chargé graphite / PTFE/Graphite

Rangeabilité : entre 15:1 et 50:1 suivant le type et le diamètre du siège

*Turndown: between 15:1 and 50:1 depending of type and seat diameter.*

## Options

Brides à emboîtements / *Flanges with grooves*  
 Clapet à portée souple / *Soft seal plug*  
 Clapet anti-bruit / *Low noise system*  
 Loi d'écoulement linéaire / *Linear characteristic*  
 Clapet perforé / *Perforated plug*  
 Étanchéité classe V / *Leakage class V*

Commande manuelle / *Manual override*  
 Presse étoupe graphite / *Graphite packing*  
 Siège/clapet stellité / *Stellited seat/plug*  
 Siège/clapet nitruré / *Nitrated seat/plug*  
 Clapet inox durci / *SS Hardened plug 1.4122*  
 Clapet équilibré / *Balanced plug*

Clapet parabolique 3 étage / *3 stage parabolique plug*

Extension avec étanchéité par soufflet inox / *Insulation with Stainless steel bellows*

Extension haute/basse température / *High/Low temperature insulation (option)*

## Organe de commande / *Actuator*

Servomoteurs pneumatiques / *pneumatic actuators* types PA35, PA60, MA41, MA60, TMA60, DMA60.

Alimentation / *air supply* max 6 bar

Surface / *Active area* de / *from* 180 cm<sup>2</sup> à/to 3460 cm<sup>2</sup>

Voir documentation servomoteurs pneumatiques / *See pneumatic actuators data sheet*

## Avantages particuliers / *Particular advantages*

Les vannes VRX, conçues et produites en France, vous assurent une excellente fiabilité avec des performances exceptionnelles et une grande rangeabilité.

*VRX control valves, designed and produced in France, ensure you an excellent reliability related to exceptional performance and a high turndown.*

## Spécification d'appel d'offre / *How to order*

VRX P DN80 Schedule 80 KVs 100 servomoteur / *actuator* PA60 C6 5G NF

## Certification

DESP 2014/68/UE ; ATEX II 2 G/D ; ISO9001

PED 2014/68/UE ; ATEX II 2 G/D ; ISO9001

[www.Energy-Tajhiz.com](http://www.Energy-Tajhiz.com)

## Combinaison DN-Matière-PN/Class / Combination DN-Material-PN/Class

| Acier / Steel |           | 1.0619 - 1.6220 - 1.7357 |              |              |                   | A216 WCB/C - A352 LCB - A217 WC6 |              |                 |                 |                 |                 |          |
|---------------|-----------|--------------------------|--------------|--------------|-------------------|----------------------------------|--------------|-----------------|-----------------|-----------------|-----------------|----------|
| Inox / SST    |           | 1.4408                   |              |              |                   | A351 CF8M                        |              |                 |                 |                 |                 |          |
| DN            | Class PN  | Bride Flange             | Bride Flange | Bride Flange | Bride Flange      | Bride Flange                     | Bride Flange | Bride Flange    | BW Sch. 40      | BW Sch. 80      | BW Sch. 80      | SW + Gaz |
|               | PN16      | PN40                     | PN100        | PN160        | Class 150         | Class 300                        | Class 600    | Design Class300 | Design Class600 | Design Class900 | Design Class900 |          |
|               | EN 1092-1 |                          |              |              | EN 1759-1 / B16.5 |                                  |              | B16.25          | B16.25          | B16.25          | B16.11          |          |
| 25            |           | ✓                        | ✓            | ✓            | ✓                 | ✓                                | ✓            | ✓               | ✓               |                 | ✓               | ✓        |
| 32            |           | ✓                        | ✓            |              |                   |                                  |              |                 |                 |                 |                 |          |
| 40            |           | ✓                        | ✓            | ✓            | ✓                 | ✓                                | ✓            | ✓               | ✓               |                 | ✓               | ✓        |
| 50            |           | ✓                        | ✓            | ✓            | ✓                 | ✓                                | ✓            | ✓               | ✓               |                 | ✓               | ✓        |
| 65            |           | ✓                        | ✓            | ✓            |                   |                                  |              |                 |                 |                 |                 |          |
| 80            |           | ✓                        | ✓            | ✓            |                   | ✓                                | ✓            | ✓               | ✓               | ✓               |                 |          |
| 100           |           | ✓                        | ✓            | ✓            |                   | ✓                                | ✓            | ✓               | ✓               | ✓               |                 |          |
| 125           |           | ✓                        | ✓            | ✓            |                   |                                  |              |                 |                 |                 |                 |          |
| 150           |           | ✓                        | ✓            | ✓            |                   | ✓                                | ✓            | ✓               | ✓               | ✓               |                 |          |
| 200           |           | ✓                        | ✓            | ✓            |                   | ✓                                | ✓            | ✓               | ✓               | ✓               |                 |          |
| 250           |           | ✓                        | ✓            |              |                   | ✓                                | ✓            | ✓               |                 |                 |                 |          |
| 300           |           | ✓                        | ✓            |              |                   | ✓                                | ✓            | ✓               |                 |                 |                 |          |

## Limites de température / Temperature limits

Voir documentation courbes pression/température - See pressure/temperature charts documentation.

|                                    | Température (°C)<br>Temperature (°C) | -60 | -50 | -46 | -29 | -10 | 20 | 200 | 250 | 350 | 400 | 500 |
|------------------------------------|--------------------------------------|-----|-----|-----|-----|-----|----|-----|-----|-----|-----|-----|
|                                    |                                      |     |     |     |     |     |    |     |     |     |     |     |
| Etanchéité tige<br>Steam tightness | PTFE + Graphite                      |     |     |     |     |     |    |     |     |     |     |     |
|                                    | PTFE + Graphite froid / Cold         |     |     |     |     |     |    |     |     |     |     |     |
|                                    | Extension / Extension HT             |     |     |     |     |     |    |     |     |     |     |     |
|                                    | Extension / Extension RT             |     |     |     |     |     |    |     |     |     |     |     |
|                                    | Extension / Extension FT             |     |     |     |     |     |    |     |     |     |     |     |
|                                    | Graphite                             |     |     |     |     |     |    |     |     |     |     |     |
| Corps<br>Body                      | Acier / Steel 1.0619 – WCB - WCC     |     |     |     |     |     |    |     |     |     |     |     |
|                                    | Acier / Steel 1.7357 - WC6           |     |     |     |     |     |    |     |     |     |     |     |
|                                    | Acier / Steel 1.6220 - LCB           |     |     |     |     |     |    |     |     |     |     |     |
|                                    | Inox / Stainless steel 1.4408 - CF8M |     |     |     |     |     |    |     |     |     |     |     |
| Visserie<br>Fastener               | Classe / Class 8.8                   |     |     |     |     |     |    |     |     |     |     |     |
|                                    | Grade L7                             |     |     |     |     |     |    |     |     |     |     |     |
|                                    | Inox / Stainless steel A2-70         |     |     |     |     |     |    |     |     |     |     |     |

## Système d'étanchéité à la tige / Packing

### Garniture PTFE chargé / Packing charged PTFE

Bague d'étanchéité avec ressort de compression

*Chevron ring with spring*

Température min. / *Min. temperature* : -10°C

Température max. / *Max. temperature* : 250°C

Pression max. / *Max. pressure* : 100 bar

Application : eau, vapeur, huile, gaz... / *Water, steam, oil, gaz...*

### Garniture PTFE chargé, version froid / Packing charged PTFE cold (option)

Bague d'étanchéité avec ressort de compression

*Chevron ring with spring*

Température min. / *Min. temperature* : -50°C

Température max. / *Max. temperature* : 100°C

Pression max. / *Max. pressure* : 100 bar

Application : eau, huile, gaz... / *Water, oil, gaz...*

### Garniture Graphite / Packing Pure graphite (option)

Température min. / *Min. temperature* : -60°C

Température max. / *Max. temperature* : 500°C

Pression max. / *Max. pressure* : 100/160 bar

Application : eau, vapeur, autres fluides / *Water, steam, etc...*

### Etanchéité par soufflet inox et presse étoupe de sécurité graphite FT/ Stainless steel bellows with graphite safety stuffing box FT (option)

Température min. / *Min. temperature* : -29°C,

Température max. / *Max. temperature* : 400°C,

Pression max. / *Max. pressure* : 20 bar

Selon courbes pression/température du soufflet / *According to bellow pressure/temperature charts*

### Extension haute température RT / High temperature extension RT (option)

Température min. / *Min. temperature* : -60°C,

Température max. / *Max. temperature* : 400°C,

Pression max. / *Max. pressure* : 100 bar

### Extension haute température HT / High temperature extension HT (option)

Température min. / *Min. temperature* : -60°C,

Température max. / *Max. temperature* : 500°C,

Pression max. / *Max. pressure* : 100 bar

## Type de clapet / Plug types

### Clapet parabolique / Parabolic plug

Loi / *Characteritics* : =% ou linéaire / =% or linear

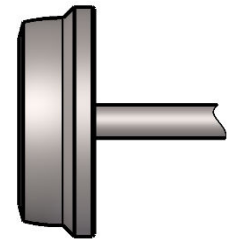
Matériaux / *Material* : 1.4404

Étanchéité / *Sealing* : Métal-métal / *Metallic tight*

Étanchéité / *Tightness* : Classe IV ou/or Classe V

ANSI B16-104 / FCI 70-2-2006 / EN 60534-4

Applications : Tous les fluides / *All fluids*



CLAPET PARABOLIQUE  
PARABOLIC PLUG

### Clapet à fenêtres / Windows plug

Loi / *Characteritics* : =% ou linéaire / =% or linear

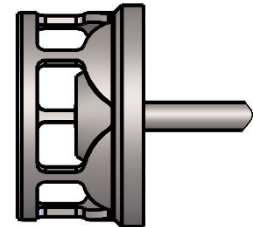
Matériaux / *Material* : 1.4404

Étanchéité / *Sealing* : Métal-métal / *Metallic tight*

Étanchéité / *Tightness* : Classe IV ou/or Classe V

ANSI B16-104 / FCI 70-2-2006 / EN 60534-4

Applications : Tous les fluides / *All fluids*



CLAPET A FENETRES  
WINDOWS PLUG

### Clapet perforé / Perforated plug (option)

Loi / *Characteritics* : =% ou linéaire / =% or linear

Matériaux / *Material* : Inox / *Stainless steel* 1.4122

Étanchéité / *Sealing* : Métal-métal / *Metallic tight*

Étanchéité / *Tightness* : Classe IV

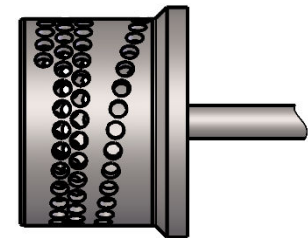
ANSI B16-104 / FCI 70-2-2006 / EN 60534-4

Applications :

Gaz et vapeur / *Gas and steam* : réduction du niveau de bruit / *Noise reduction*

Liquide / *Liquid* : Anti-cavitation et réduction du niveau de bruit

*Cavitation, flashing and noise reduction*



CLAPET PERFORÉ  
PERFORATED PLUG

### Clapet triple étage / Triple stage plug (option)

Loi / *Characteritics* : linéaire / *linear*

Matériaux / *Material* : Inox / *Stainless steel* 1.4122

Étanchéité / *Sealing* : Métal-métal / *Metallic tight*

Étanchéité / *Tightness* : Classe IV

ANSI B16-104 / FCI 70-2-2006 / EN 60534-4

Applications :

Gaz et vapeur / *Gas and steam* : réduction du niveau de bruit / *Noise reduction*

Liquide / *Liquid* : Anti-cavitation et réduction du niveau de bruit

*Cavitation, flashing and noise reduction*



CLAPET 3 ETAGES  
TRIPLE STAGES PLUG

# Kv pour clapet parabolique =% et linéaire

## Kv for parabolic and linear parabolic plug

| Ø Siège /<br>Sert (mm)     | 4                                    | 4    | 6    | 6   | 6    | 6  | 8   | 8   | 10 | 15  | 20 | 20 | 25 | 32 | 40 | 50  | 65 | 80  | 100 | 125                               | 150 | 200 | 250  | 300  |
|----------------------------|--------------------------------------|------|------|-----|------|----|-----|-----|----|-----|----|----|----|----|----|-----|----|-----|-----|-----------------------------------|-----|-----|------|------|
| Course /<br>Stroke<br>(mm) | 20                                   | 20   | 20   | 20  | 20   | 20 | 20  | 20  | 20 | 20  | 20 | 20 | 20 | 20 | 25 | 25  | 30 | 30  | 40  | 40                                | 50  | 60  | 75   | 90   |
| DN                         | Kvs                                  |      |      |     |      |    |     |     |    |     |    |    |    |    |    |     |    |     |     |                                   |     |     |      |      |
| 15                         | 0.1                                  | 0.16 | 0.25 | 0.4 | 0.63 | 1  | 1.6 | 2.5 | 4  |     |    |    |    |    |    |     |    |     |     |                                   |     |     |      |      |
| 20                         | 0.1                                  | 0.16 | 0.25 | 0.4 | 0.63 | 1  | 1.6 | 2.5 | 4  | 6.3 |    |    |    |    |    |     |    |     |     |                                   |     |     |      |      |
| 25                         | 0.1                                  | 0.16 | 0.25 | 0.4 | 0.63 | 1  | 1.6 | 2.5 | 4  | 6.3 | 10 |    |    |    |    |     |    |     |     |                                   |     |     |      |      |
| 32                         |                                      |      | 0.25 | 0.4 | 0.63 | 1  | 1.6 | 2.5 | 4  | 6.3 | 10 | 16 |    |    |    |     |    |     |     |                                   |     |     |      |      |
| 40                         |                                      |      |      |     |      |    | 1.6 | 2.5 | 4  | 6.3 | 10 | 16 | 25 |    |    |     |    |     |     |                                   |     |     |      |      |
| 50                         |                                      |      |      |     |      |    |     | 2.5 | 4  | 6.3 | 10 | 16 | 25 | 40 |    |     |    |     |     |                                   |     |     |      |      |
| 65                         |                                      |      |      |     |      |    |     |     |    |     | 10 | 16 | 25 | 40 | 63 |     |    |     |     |                                   |     |     |      |      |
| 80                         |                                      |      |      |     |      |    |     |     |    |     |    | 16 | 25 | 40 | 63 | 100 |    |     |     |                                   |     |     |      |      |
| 100                        |                                      |      |      |     |      |    |     |     |    |     |    |    |    |    |    | 40  | 63 | 115 | 160 |                                   |     |     |      |      |
| 125                        |                                      |      |      |     |      |    |     |     |    |     |    |    |    |    |    |     | 63 | 117 | 185 | 250                               |     |     |      |      |
| 150                        |                                      |      |      |     |      |    |     |     |    |     |    |    |    |    |    |     |    | 117 | 190 | 280                               | 360 |     |      |      |
| 200                        |                                      |      |      |     |      |    |     |     |    |     |    |    |    |    |    |     |    |     | 190 | 290                               | 420 | 630 |      |      |
| 250                        |                                      |      |      |     |      |    |     |     |    |     |    |    |    |    |    |     |    |     |     | 290                               | 425 | 720 | 1000 |      |
| 300                        |                                      |      |      |     |      |    |     |     |    |     |    |    |    |    |    |     |    |     |     |                                   | 425 | 735 | 1140 | 1440 |
|                            | Clapet Parabolique<br>Parabolic Plug |      |      |     |      |    |     |     |    |     |    |    |    |    |    |     |    |     |     | Clapet à fenêtres<br>Windows plug |     |     |      |      |

En violet, disponible aussi pour vanne équilibrée. In purple, also available for balanced valve.

**Kv pour clapet perforé =% et linéaire**  
**Kv for =% and linear perforated plug**

| Ø Siège / Seat<br>(mm)  | 15  | 15  | 15  | 15 | 15  | 20  | 20   | 20   | 20   | 25   | 32   | 40 | 50 | 65 | 80 | 100 | 100 | 125 | 125 | 150 | 150 | 200 | 200 | 250 | 250  | 300  | 300  |
|-------------------------|-----|-----|-----|----|-----|-----|------|------|------|------|------|----|----|----|----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|------|------|
| Course /<br>Stroke (mm) | 15  | 15  | 15  | 15 | 15  | 20  | 20   | 20   | 20   | 25   | 20   | 25 | 25 | 30 | 40 | 40  | 40  | 50  | 40  | 50  | 50  | 60  | 60  | 75  | 90   | 90   | 110  |
| DN                      | Kvs |     |     |    |     |     |      |      |      |      |      |    |    |    |    |     |     |     |     |     |     |     |     |     |      |      |      |
| 15                      | 1   | 1.6 | 2.5 | 4  |     |     |      |      |      |      |      |    |    |    |    |     |     |     |     |     |     |     |     |     |      |      |      |
| 20                      | 1   | 1.6 | 2.5 | 4  | 5.4 |     |      |      |      |      |      |    |    |    |    |     |     |     |     |     |     |     |     |     |      |      |      |
| 25                      | 1   | 1.6 | 2.5 | 4  | 6.2 | 7   |      |      |      |      |      |    |    |    |    |     |     |     |     |     |     |     |     |     |      |      |      |
| 32                      |     |     | 2.5 | 4  | 6.6 | 7.7 | 10.2 |      |      |      |      |    |    |    |    |     |     |     |     |     |     |     |     |     |      |      |      |
| 40                      |     |     | 2.5 | 4  | 6.8 | 7.9 | 10.9 | 16.1 |      |      |      |    |    |    |    |     |     |     |     |     |     |     |     |     |      |      |      |
| 50                      |     |     | 2.5 | 4  | 6.9 | 8.1 | 11.2 | 17.2 | 27   |      |      |    |    |    |    |     |     |     |     |     |     |     |     |     |      |      |      |
| 65                      |     |     |     |    |     | 8.1 | 11.4 | 17.8 | 29.5 | 42   |      |    |    |    |    |     |     |     |     |     |     |     |     |     |      |      |      |
| 80                      |     |     |     |    |     | 8.1 | 11.4 | 18   | 30.5 | 45   | 72   |    |    |    |    |     |     |     |     |     |     |     |     |     |      |      |      |
| 100                     |     |     |     |    |     |     |      |      | 30.6 | 46.4 | 78.8 |    |    |    |    | 105 | 125 | 145 | 160 |     |     |     |     |     |      |      |      |
| 125                     |     |     |     |    |     |     |      |      |      | 53   | 82   |    |    |    |    | 110 | 145 | 170 | 140 | 165 | 215 | 240 |     |     |      |      |      |
| 150                     |     |     |     |    |     |     |      |      |      |      | 83   |    |    |    |    | 115 | 180 | 145 | 240 | 215 | 250 | 320 | 350 |     |      |      |      |
| 200                     |     |     |     |    |     |     |      |      |      |      |      |    |    |    |    | 120 | 190 | 150 | 265 | 230 | 380 | 370 | 450 | 560 | 620  |      |      |
| 250                     |     |     |     |    |     |     |      |      |      |      |      |    |    |    |    |     |     | 150 | 270 | 235 | 405 | 390 | 660 | 590 | 680  |      |      |
| 300                     |     |     |     |    |     |     |      |      |      |      |      |    |    |    |    |     |     |     |     | 235 | 415 | 400 | 705 | 625 | 1025 | 885  | 1010 |
|                         |     |     |     |    |     |     |      |      |      |      |      |    |    |    |    |     |     |     |     |     |     |     |     |     |      | 1330 | 1440 |

En violet, disponible aussi pour vanne équilibrée. In purple, also available for balanced valve.  
 En italique, 1er chiffre Kv =% / 2ème chiffre Kv linéaire. In italics, 1st value Kv =% / 2nd value linear Kv.

## Kv pour clapet perforé =% et linéaire double étage

### Kv for =% and linear plug double stage

| Ø Siège / Seat<br>(mm)  | 15  | 20  | 20  | 20  | 25  | 32  | 40   | 50   | 65   | 80 | 100 | 100 | 125 | 125 | 150 | 150 | 200 | 200 | 250 | 250 | 300  | 300  |
|-------------------------|-----|-----|-----|-----|-----|-----|------|------|------|----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|------|
| Course /<br>Stroke (mm) | 20  | 20  | 20  | 20  | 20  | 20  | 25   | 25   | 30   | 40 | 40  | 50  | 40  | 50  | 50  | 60  | 60  | 75  | 75  | 90  | 90   | 110  |
| DN                      | Kvs |     |     |     |     |     |      |      |      |    |     |     |     |     |     |     |     |     |     |     |      |      |
| 15                      | 2   | 3.3 |     |     |     |     |      |      |      |    |     |     |     |     |     |     |     |     |     |     |      |      |
| 20                      | 2   | 3.3 | 4.5 |     |     |     |      |      |      |    |     |     |     |     |     |     |     |     |     |     |      |      |
| 25                      | 2   | 3.3 | 5.1 | 5.8 |     |     |      |      |      |    |     |     |     |     |     |     |     |     |     |     |      |      |
| 32                      | 2   | 3.3 | 5.5 | 6.4 | 8.5 |     |      |      |      |    |     |     |     |     |     |     |     |     |     |     |      |      |
| 40                      |     | 3.3 | 5.6 | 6.5 | 9   | 13  |      |      |      |    |     |     |     |     |     |     |     |     |     |     |      |      |
| 50                      |     | 3.3 | 5.7 | 6.7 | 9   | 14  | 22   |      |      |    |     |     |     |     |     |     |     |     |     |     |      |      |
| 65                      |     |     |     |     | 6.7 | 9.5 | 14.5 | 24   | 35   |    |     |     |     |     |     |     |     |     |     |     |      |      |
| 80                      |     |     |     |     | 6.7 | 9.5 | 15   | 25   | 37.5 | 60 |     |     |     |     |     |     |     |     |     |     |      |      |
| 100                     |     |     |     |     |     |     |      | 25.5 | 38   | 65 | 87  | 107 | -   | 115 | 138 | 175 | 200 | 210 | 265 | 308 | 380  | -    |
| 125                     |     |     |     |     |     |     |      |      | 39   | 68 | 90  | 120 | 140 | 120 | 170 | 210 | 265 | 315 | 325 | 475 | 570  | -    |
| 150                     |     |     |     |     |     |     |      |      | 69   |    | 95  | 150 | 155 | 125 | 190 | 220 | 225 | 336 | 333 | 550 | 735  | 885  |
| 200                     |     |     |     |     |     |     |      |      |      |    | 100 |     |     | 125 | 195 | 225 | 345 | 333 | 520 | 750 | 1025 | 1100 |
| 250                     |     |     |     |     |     |     |      |      |      |    |     |     |     | 125 | 195 | 225 | 345 | 333 | 520 | 750 | 1025 | 1100 |
| 300                     |     |     |     |     |     |     |      |      |      |    |     |     |     | 125 | 195 | 225 | 345 | 333 | 520 | 750 | 1025 | 1100 |

En violet, disponible aussi pour vanne équilibrée. In purple, also available for balanced valve.  
 En italique, 1er chiffre Kv =% / 2ème chiffre Kv linéaire. In italics, 1st value Kv =% / 2nd value linear Kv.

Kv pour clapet perforé =% et linéaire triple étage  
Kv for =% and linear plug triple stage

| Ø Siège / Seat<br>(mm)  | 20  | 20  | 25  | 32  | 40   | 50 | 65 | 80 | 100 | 125 | 150 | 200 | 250 |
|-------------------------|-----|-----|-----|-----|------|----|----|----|-----|-----|-----|-----|-----|
| Course /<br>Stroke (mm) | 20  | 20  | 20  | 20  | 25   | 25 | 30 | 40 | 40  | 40  | 50  | 60  | 75  |
| DN                      | Kvs |     |     |     |      |    |    |    |     |     |     |     |     |
| 20                      | 3.1 |     |     |     |      |    |    |    |     |     |     |     |     |
| 25                      | 3.1 | 4.8 |     |     |      |    |    |    |     |     |     |     |     |
| 32                      | 3.1 | 5.1 | 6   |     |      |    |    |    |     |     |     |     |     |
| 40                      |     | 5.3 | 6.1 | 8.5 |      |    |    |    |     |     |     |     |     |
| 50                      |     |     | 6.3 | 8.7 | 13   |    |    |    |     |     |     |     |     |
| 65                      |     |     |     | 8.9 | 13.5 | 23 |    |    |     |     |     |     |     |
| 80                      |     |     |     |     | 14   | 23 | 35 |    |     |     |     |     |     |
| 100                     |     |     |     |     |      | 23 | 36 | 60 |     |     |     |     |     |
| 125                     |     |     |     |     |      |    | 36 | 64 | 88  | 132 |     |     |     |
| 150                     |     |     |     |     |      |    |    | 64 | 89  | 109 | 180 |     |     |
| 200                     |     |     |     |     |      |    |    | 90 | 110 | 170 | 285 |     |     |
| 250                     |     |     |     |     |      |    |    |    | 145 | 200 | 285 | 290 |     |
| 300                     |     |     |     |     |      |    |    |    |     | 110 | 175 | 285 | 680 |
|                         |     |     |     |     |      |    |    |    |     | 200 | 285 | 300 | 470 |
|                         |     |     |     |     |      |    |    |    |     | 175 | 285 | 530 | 770 |

En violet, disponible aussi pour vanne équilibrée. In purple, also available for balanced valve.  
En italique, 1er chiffre Kv =% / 2ème chiffre Kv linéaire. In italics, 1st value Kv =% / 2nd value linear Kv.

Kv pour clapet parabolique linéaire triple étage  
Kv for linear parabolic triple stage plug

| Ø Siège / Seat<br>(mm)  | 4    | 6    | 6   | 6    | 8    | 8   | 10  |
|-------------------------|------|------|-----|------|------|-----|-----|
| Course /<br>Stroke (mm) | 15   | 15   | 15  | 15   | 15   | 15  | 15  |
| DN                      | Kvs  |      |     |      |      |     |     |
| 15                      | 0.12 | 0.18 | 0.3 | 0.47 | 0.75 | 1.2 | 1.8 |
| 20                      | 0.12 | 0.18 | 0.3 | 0.47 | 0.75 | 1.2 | 1.8 |
| 25                      |      | 0.18 | 0.3 | 0.47 | 0.75 | 1.2 | 1.8 |
| 32                      |      | 0.18 | 0.3 | 0.47 | 0.75 | 1.2 | 1.8 |
| 40                      |      |      | 0.3 | 0.47 | 0.75 | 1.2 | 1.8 |
| 50                      |      |      | 0.3 | 0.47 | 0.75 | 1.2 | 1.8 |

**Différence de pression maximale : Vanne normalement fermée (NF) par manque d'air : version Po**  
**Maximal differential pressure: Fail close valve (FC): Po version**

| Ø Siège / Seat (mm)             |                     | 4                           | 6                                                                 | 8  | 10 | 15      | 16      | 20      | 23      | 25 | 32  | 40      | 50      | 65      | 80      | 100     | 125     | 150     | 200     |
|---------------------------------|---------------------|-----------------------------|-------------------------------------------------------------------|----|----|---------|---------|---------|---------|----|-----|---------|---------|---------|---------|---------|---------|---------|---------|
| Course / Stroke (mm)            |                     | 20                          | 20                                                                | 20 | 20 | 20      | 20      | 20      | 20      | 20 | 20  | 25      | 25      | 30      | 40      | 40      | 50      | 60      | 75      |
| Servomoteurs<br>Actuators       | Ressorts<br>Springs | Min. Air<br>supply<br>(bar) | Différentiels de pression max. / Max. differential pressure (bar) |    |    |         |         |         |         |    |     |         |         |         |         |         |         |         |         |
| PA35 B6<br>180 cm <sup>2</sup>  | 2G                  | 1.4                         | 50                                                                | 45 | 35 | 25      | 15      | 13      | 9       | 7  | 6   | 3.5     |         |         |         |         |         |         |         |
|                                 | 4G                  | 2.5                         |                                                                   | 50 |    | 44      | 40      | 40      | 28      | 22 | 19  | 12      | 7       | 4.4     |         |         |         |         |         |
|                                 | 6S                  | 6                           |                                                                   |    |    | 50      | 1.4-2.2 | 41      | 24      | 16 | 8.6 | 5.2     |         |         |         |         |         |         |         |
|                                 |                     |                             |                                                                   |    |    | 3.0-5.0 |         |         |         |    |     | 1.8-5.0 |         |         |         |         |         |         |         |
| PA60 A6<br>400 cm <sup>2</sup>  | 2G                  | 1.4                         |                                                                   |    |    |         |         | 37      | 29      | 25 | 16  | 9.6     | 6.2     | 3       | 1.5     | 1.6     | 0.8     |         |         |
|                                 | 3S                  | 3                           |                                                                   |    |    |         |         | 50      | 0.6-1.0 |    |     | 32      | 21      | 11      | 8.4     | 7.5     | 5.5     |         |         |
|                                 | 6G                  | 3.5                         |                                                                   |    |    |         |         | 50      | 1.6-2.4 |    |     | 36      | 24      | 13      | 9.1     | 8.5     | 6       |         |         |
|                                 | 6S                  | 6                           |                                                                   |    |    |         |         | 50      | 1.8-2.8 |    |     | 27      | 18      | 15      | 12      | 3       |         |         |         |
|                                 |                     |                             |                                                                   |    |    |         |         | 3.8-4.9 |         |    |     | 2.9-4.9 | 1.7-4.9 | 2.5-4.9 | 1.7-4.9 |         |         |         |         |
| PA60 C6<br>400 cm <sup>2</sup>  | 6G                  | 2.9                         |                                                                   |    |    |         |         | 50      | 2.0-2.6 |    |     | 37      | 25      | 14      | 11      | 8.7     | 7.1     |         |         |
|                                 | 6S                  | 6                           |                                                                   |    |    |         |         |         |         |    |     | 50      | 1.9-2.6 | 1.7-2.6 | 1.4-2.6 |         |         |         |         |
|                                 |                     |                             |                                                                   |    |    |         |         |         |         |    |     | 3.9-5.4 |         | 2.7     | 19      | 17      | 13      | 3.8     | 1.1     |
| MA41 A6<br>800 cm <sup>2</sup>  | 8S                  | 4.5                         |                                                                   |    |    |         |         |         |         |    |     |         |         | 42      | 33      | 27      | 23      | 10      |         |
|                                 | 14S                 | 6                           |                                                                   |    |    |         |         |         |         |    |     |         |         | 1.8-3.3 | 1.4-3.3 | 1.8-3.3 | 1.5-3.3 |         |         |
| MA41 B6<br>800 cm <sup>2</sup>  | 8S                  | 4.5                         |                                                                   |    |    |         |         |         |         |    |     |         |         | 3.3-5.7 | 2.6-5.7 | 3.3-5.7 | 2.6-5.7 |         |         |
|                                 | 14S                 | 6                           |                                                                   |    |    |         |         |         |         |    |     |         |         | 42      | 33      | 27      | 23      | 10      | 7.2     |
| MA41 C6<br>800 cm <sup>2</sup>  | 4S                  | 6                           |                                                                   |    |    |         |         |         |         |    |     |         |         | 1.8-3.3 | 1.4-3.3 | 1.8-3.3 | 1.5-3.3 |         |         |
|                                 | 16S                 | 6                           |                                                                   |    |    |         |         |         |         |    |     |         |         | 50      | 48      | 41      | 22      |         |         |
| MA60 D6<br>1730 cm <sup>2</sup> | 8B                  | 6                           |                                                                   |    |    |         |         |         |         |    |     |         |         | 3.3-5.7 | 2.6-5.7 | 3.3-5.7 | 2.6-5.7 |         |         |
|                                 |                     |                             |                                                                   |    |    |         |         |         |         |    |     |         |         | 17.5    | 12      | 10.5    | 6       | 5       |         |
|                                 |                     |                             |                                                                   |    |    |         |         |         |         |    |     |         |         | 3.0-5.2 | 2.8-5.2 | 3.0-5.2 | 2.8-5.2 | 2.3-5.2 |         |
|                                 |                     |                             |                                                                   |    |    |         |         |         |         |    |     |         |         | 27      | 18      |         | 10      |         |         |
|                                 |                     |                             |                                                                   |    |    |         |         |         |         |    |     |         |         | 2.1-4.4 |         | 2.1-4.4 |         |         |         |
|                                 |                     |                             |                                                                   |    |    |         |         |         |         |    |     |         |         |         |         |         |         |         | 15      |
|                                 |                     |                             |                                                                   |    |    |         |         |         |         |    |     |         |         |         |         |         |         |         | 3.2-5.0 |

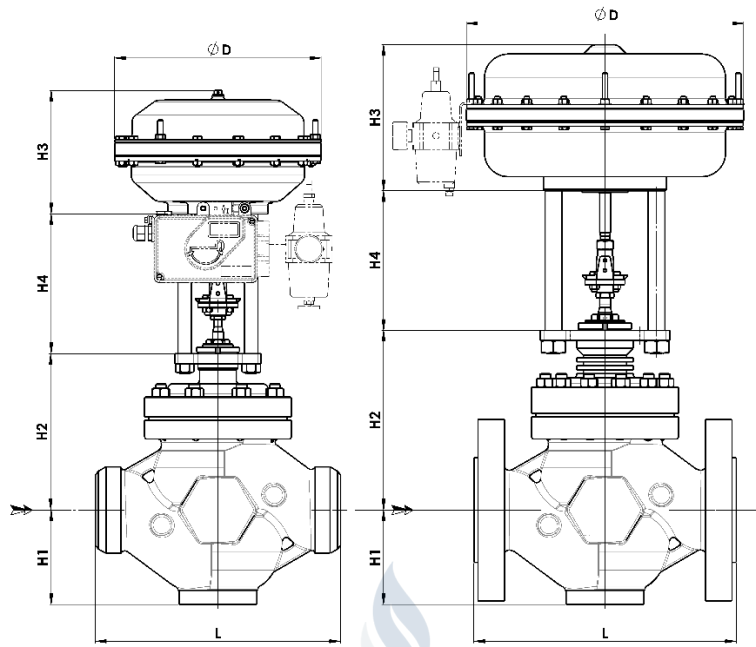
Valable pour vanne classe IV, portée Inox, PE PTFE chargé, non équilibré. For class IV valve, SST plug, non-balanced charged PTFE packing.

Différence de pression maximale : Vanne normalement ouverte (NO) par manque d'air : version Ps  
*Maximal differential pressure: Fail open valve (FO): Ps version*

| Ø Siège / Seat (mm)       |                     | 4                            | 6                                                                  | 8  | 10 | 15 | 16 | 20 | 20 | 23 | 25  | 32 | 40  | 50      | 65      | 80      | 100     | 125     | 150     | 200     |         |         |         |         |     |
|---------------------------|---------------------|------------------------------|--------------------------------------------------------------------|----|----|----|----|----|----|----|-----|----|-----|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|-----|
| Course / Stroke (mm)      |                     | 20                           | 20                                                                 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20  | 20 | 25  | 25      | 30      | 40      | 50      | 60      | 40      | 50      | 60      | 75      |         |         |     |
| Servomoteurs<br>Actuators | Ressorts<br>Springs | Align.<br>Min. Air<br>supply | Différentiels de pression max. / Maxi. differential pressure (bar) |    |    |    |    |    |    |    |     |    |     |         |         |         |         |         |         |         |         |         |         |         |     |
| PA35 B6<br>180 cm²        | 2G                  | 1.4                          | 50                                                                 |    | 36 | 20 | 20 | 18 | 12 | 9  | 8.5 | 5  | 1.9 | 1       |         |         |         |         |         |         |         |         |         |         |     |
|                           |                     |                              |                                                                    |    |    |    |    |    |    |    |     |    |     |         | 0.2-0.8 |         |         |         |         |         |         |         |         |         |     |
|                           |                     | 2.5                          | 50                                                                 |    |    |    |    |    | 46 | 37 | 32  | 21 | 12  | 8       | 4.7     | 2.8     |         |         |         |         |         |         |         |         |     |
|                           |                     |                              |                                                                    |    |    |    |    |    |    |    |     |    |     |         | 0.2-0.9 | 0.2-0.9 |         |         |         |         |         |         |         |         |     |
| PA60 A6<br>400 cm²        | 2G                  | 6                            |                                                                    |    |    |    |    |    |    |    |     |    | 45  | 30      | 17      | 11      |         |         |         |         |         |         |         |         |     |
|                           |                     |                              |                                                                    |    |    |    |    |    |    |    |     |    |     | 0.2-0.8 | 0.2-0.9 | 0.2-0.9 |         |         |         |         |         |         |         |         |     |
|                           |                     |                              |                                                                    |    |    |    |    |    | 50 | 42 | 36  | 24 | 13  | 8       | 4.3     | 2.2     | 2.6     | 1.3     |         |         |         |         |         |         |     |
|                           |                     |                              |                                                                    |    |    |    |    |    |    |    |     |    |     | 0.2-0.7 | 0.2-0.8 | 0.2-0.9 | 0.2-0.8 | 0.2-0.9 |         |         |         |         |         |         |     |
| PA60 C6<br>400 cm²        | 2G                  | 1.4                          |                                                                    |    |    |    |    |    | 50 | 49 | 43  | 28 | 17  | 11      | 6.4     | 4.5     | 3.6     | 2.8     |         |         |         |         |         |         |     |
|                           |                     |                              |                                                                    |    |    |    |    |    |    |    |     |    |     | 0.2-0.6 | 0.2-0.7 | 0.2-0.6 | 0.2-0.7 |         |         |         |         |         |         |         |     |
|                           |                     | 2.5                          |                                                                    |    |    |    |    |    |    |    |     |    | 40  | 28      | 16      | 14      | 10      | 9.4     | 1.2     | 0.7     | 0.3     |         |         |         |     |
|                           |                     |                              |                                                                    |    |    |    |    |    |    |    |     |    |     | 0.2-0.6 | 0.2-0.7 | 0.2-0.6 | 0.2-0.7 | 0.2-0.8 | 0.2-0.7 | 0.2-0.8 |         |         |         |         |     |
| MA41 A6<br>800 cm²        | 4G                  | 6                            |                                                                    |    |    |    |    |    |    |    |     |    |     |         |         |         | 32      | 30      | 15      | 14      | 11      | 10      | 7.3     | 6.9     | 3.8 |
|                           |                     |                              |                                                                    |    |    |    |    |    |    |    |     |    |     |         |         |         | 0.2-0.6 | 0.2-0.7 | 0.2-0.7 | 0.2-0.8 | 0.2-0.7 | 0.2-0.8 | 0.2-0.8 | 0.2-0.9 |     |
|                           |                     |                              |                                                                    |    |    |    |    |    |    |    |     |    |     |         |         |         | 32      | 30      | 15      | 14      | 11      | 10      | 7.3     | 6.9     | 3.8 |
|                           |                     |                              |                                                                    |    |    |    |    |    |    |    |     |    |     |         |         |         | 0.2-0.6 | 0.2-0.7 | 0.2-0.7 | 0.2-0.8 | 0.2-0.7 | 0.2-0.8 | 0.2-0.9 |         |     |
| MA41 B6<br>800 cm²        | 4G                  | 1.4                          |                                                                    |    |    |    |    |    |    |    |     |    |     |         |         |         |         |         |         |         |         |         |         |         |     |
|                           |                     |                              |                                                                    |    |    |    |    |    |    |    |     |    |     |         |         |         | 14      | 8       | 9       | 5.4     |         |         |         |         |     |
|                           |                     |                              |                                                                    |    |    |    |    |    |    |    |     |    |     |         |         |         | 0.2-0.7 | 0.2-0.8 | 0.2-0.7 | 0.2-0.8 |         |         |         |         |     |
|                           |                     |                              |                                                                    |    |    |    |    |    |    |    |     |    |     |         |         |         | 35      | 29      | 22      | 19      | 8.1     | 6.5     | 5.8     | 4.6     | 3   |

Valable pour vanne classe IV, portée Inox, PE PTFE chargé, non équilibré. For class IV valve, SST plug, non-balanced charged PTFE packing.

# Encombres / Dimensions DN25-DN300 / DN1"- DN12"



|           | NPS                             | 1"  | 1" ¼ | 1" ½ | 2"  | 2" ½ | 3"  | 4"  | 5"  | 6"  | 8"  | 10" | 12" |
|-----------|---------------------------------|-----|------|------|-----|------|-----|-----|-----|-----|-----|-----|-----|
|           | DN                              | 25  | 32   | 40   | 50  | 65   | 80  | 100 | 125 | 150 | 200 | 250 | 300 |
| Type VRXL | L PN16/25/40 FS <sup>(1)</sup>  | 160 | 180  | 200  | 230 | 290  | 310 | 350 | 400 | 480 | 600 | 430 | 850 |
|           | L Class 150 RF <sup>(37)</sup>  | 184 | /    | 222  | 254 | /    | 298 | 352 | /   | 451 | 543 | 673 | 737 |
|           | L Class 150 RTJ <sup>(37)</sup> | 197 | /    | 235  | 267 | /    | 311 | 365 | /   | 464 | 556 | 686 | 750 |
|           | L Class 300 RF <sup>(38)</sup>  | 197 | /    | 235  | 267 | /    | 317 | 368 | /   | 473 | 568 | 708 | 775 |
|           | L Class 300 RTJ <sup>(38)</sup> | 210 | /    | 248  | 280 | /    | 333 | 381 | /   | 489 | 584 | 724 | 781 |
|           | L BW Sch. 40 <sup>(38)</sup>    | 197 | /    | 235  | 267 | /    | 317 | 368 | /   | 473 | 568 | 708 | 775 |
|           | H2 Std                          | 132 | 132  | 163  | 163 | 181  | 198 | 235 | 283 | 303 | 350 | 456 | 498 |
|           | H2 RT                           | 182 | 182  | 213  | 213 | 231  | 248 | 285 | 333 | 353 | 400 | /   | /   |
|           | H2 HT                           | 373 | 373  | 413  | 413 | 440  | 457 | 477 | 642 | 655 | 702 | /   | /   |
|           | H2 FT                           | 373 | 373  | 413  | 413 | 440  | 457 | 477 | 642 | 655 | 702 | /   | /   |
|           | Masse / Mass (kg)               | 9   | 11   | 16   | 18  | 30   | 38  | 55  | 105 | 150 | 270 | 425 | 610 |
| Type VRXH | L PN63/100 FS <sup>(2)</sup>    | 230 | 260  | 260  | 300 | 340  | 380 | 430 | 500 | 550 | 650 | /   | /   |
|           | L PN160 FS <sup>(2)</sup>       | 230 | 260  | 260  | 300 | /    | /   | /   | /   | /   | /   | /   | /   |
|           | L Class 600 RF <sup>(39)</sup>  | 210 | /    | 251  | 286 | /    | 337 | 394 | /   | 508 | 610 | 752 | 819 |
|           | L Class 600 RTJ <sup>(39)</sup> | 210 | /    | 251  | 289 | /    | 340 | 397 | /   | 511 | 613 | 755 | 822 |
|           | L BW Sch. 80 <sup>(39)</sup>    | 210 | /    | 251  | 286 | /    | 337 | 394 | /   | 508 | 610 | 752 | 819 |
|           | L SW / Gaz <sup>(39)</sup>      | 210 | /    | 251  | 286 | /    | /   | /   | /   | /   | /   | /   | /   |
|           | H2 Std                          | 146 | 146  | 182  | 182 | 216  | 237 | 270 | 303 | 323 | 393 | 506 | 546 |
|           | H2 RT                           | 182 | 182  | 213  | 213 | 241  | 262 | 295 | 333 | 353 | 423 | /   | /   |
|           | H2 HT                           | 383 | 383  | 427  | 427 | 454  | 473 | 501 | 677 | 690 | 750 | /   | /   |
|           | Masse / Mass (kg)               | 11  | 13   | 18   | 21  | 34   | 44  | 65  | 125 | 175 | 300 | 600 | 800 |
| H1        |                                 | 56  | 56   | 90   | 90  | 102  | 115 | 142 | 170 | 205 | 250 | 300 | 345 |
| H4 max    |                                 | 190 | 190  | 190  | 190 | 200  | 200 | 210 | 288 | 288 | 300 | 340 | 340 |

(1) Suivant / According to EN558 série 1 – DIN3202-1 séries F 1

(2) Suivant / According to EN558 série 2 – DIN3202-1 séries F 2

(37) Suivant / According to EN558 série 37 – CEI 60534-3-2 + ISA S75.08.01

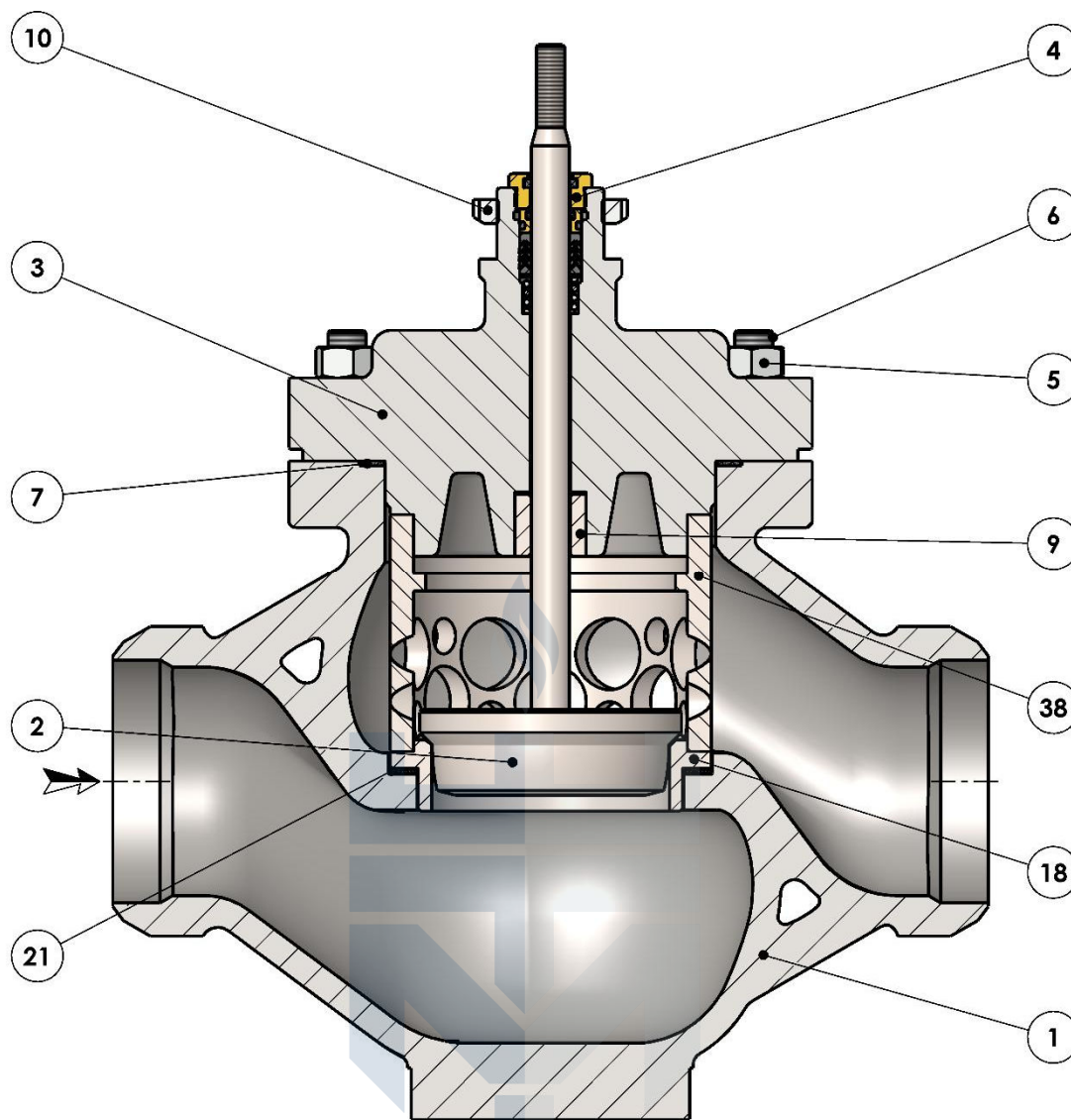
(38) Suivant / According to EN558 série 38 – CEI 60534-3-2 + ISA S75.08.01

(39) Suivant / According to EN558 série 39 – CEI 60534-3-2 + ISA S75.08.01

|                   | PA35 B6 | PA60 A6 | PA60 C6 | MA41 A6 | MA41 B6 | MA41 C6 | MA60 G6 | MA60 D6 |
|-------------------|---------|---------|---------|---------|---------|---------|---------|---------|
| ØD                | 210     | 310     | 310     | 420     | 420     | 420     | 600     | 600     |
| H3                | 130     | 156     | 176     | 224     | 242     | 329     | 383     | 534     |
| Masse / Mass (kg) | 5.2     | 10.5    | 12.5    | 51      | 58      | 76      | 160     | 192     |

Toutes les cotes en mm / All dimensions in mm

Liste de pièces / Parts list- DN25-DN300 / DN1"- DN12"

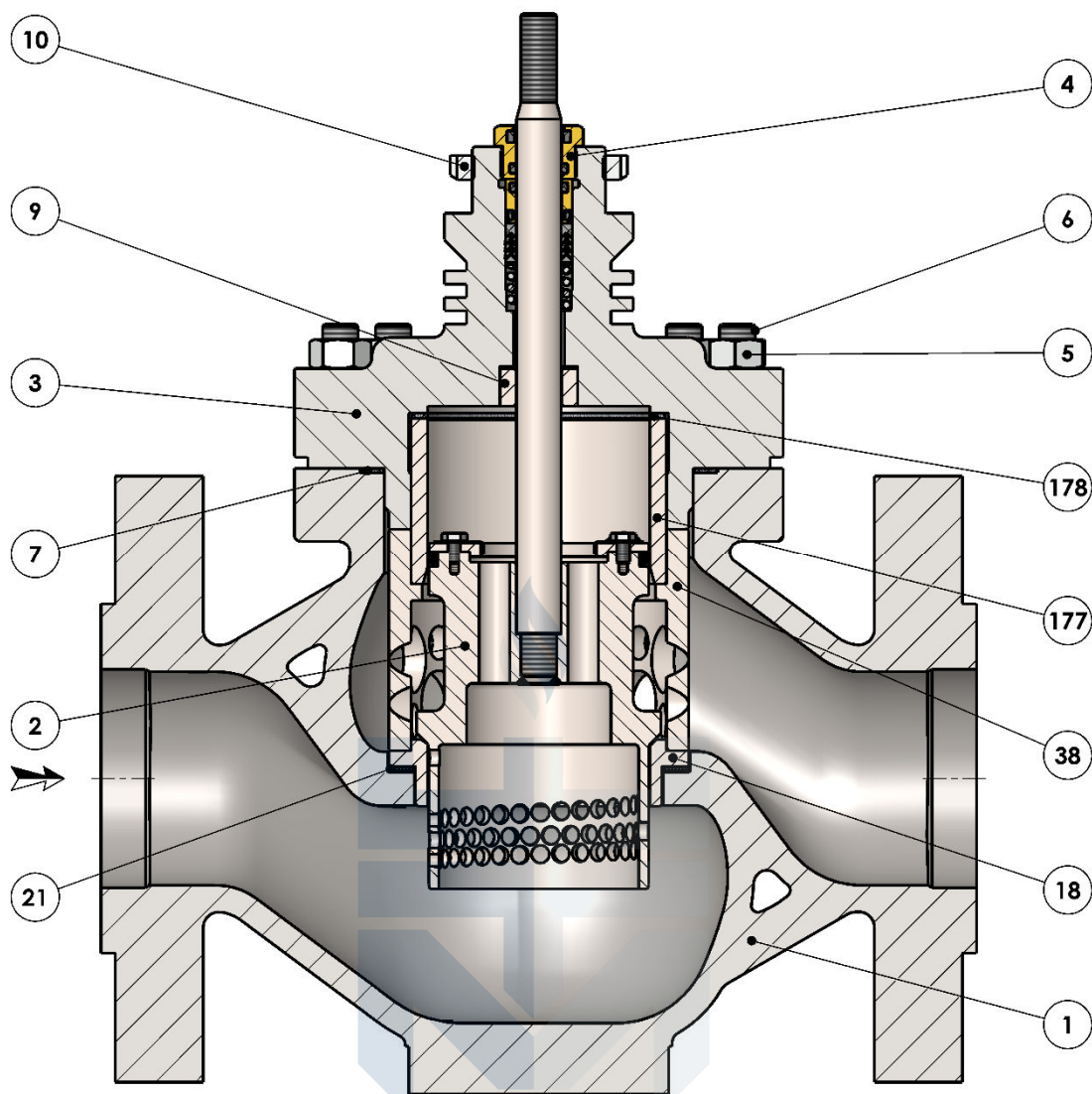


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| Rep./Item | Désignation / Description           | Matière / Material                                      |
|-----------|-------------------------------------|---------------------------------------------------------|
| 1         | Corps / Body                        | 1.0619-WCB-WCC   1.7357-WC6<br>1.6220-LCB   1.4408-CF8M |
| 2*        | Clapet / Plug                       | Inox / Stainless steel                                  |
| 3         | Couvercle / Cover                   | 1.0619-WCB-WCC   1.7357-WC6<br>1.6220-LCB   1.4408-CF8M |
| 4*        | Presse étoupe / Stuffing box        | Laiton / Brass   Inox / Stainless steel                 |
| 5         | Ecrou / Nut                         | 8.8   A2-70   L7                                        |
| 6         | Goujon / Stud                       | 8.8   A2-70   L7                                        |
| 7*        | Joint / Gasket                      | Graphite-Inox / Graphite-SST                            |
| 9         | Douille de guidage / Guiding bush   | Bronze / Bronze   Inox / Stainless steel                |
| 18        | Siège / Seat                        | Inox / Stainless steel                                  |
| 21*       | Joint Spirale / Spiral wound gasket | Graphite-Inox / Graphite-SST                            |
| 38        | Diffuseur / Diffuser                | Inox / Stainless steel                                  |

\* Pièces de rechange / Spare parts

Liste de pièces / *Parts list*- DN80 – DN300 Equilibrée / DN3"- DN12" *Balanced*



| Rep./Item | Désignation / Description                    | Matière / Material                                      |
|-----------|----------------------------------------------|---------------------------------------------------------|
| 1         | Corps / <i>Body</i>                          | 1.0619-WCB-WCC   1.7357-WC6<br>1.6220-LCB   1.4408-CF8M |
| 2*        | Clapet / <i>Plug</i>                         | Inox / <i>Stainless steel</i>                           |
| 3         | Couvercle / <i>Cover</i>                     | 1.0619-WCB-WCC   1.7357-WC6<br>1.6220-LCB   1.4408-CF8M |
| 4*        | Presse étoupe / <i>Stuffing box</i>          | Laiton - <i>Brass</i> / Inox - <i>Stainless steel</i>   |
| 5         | Ecrou / <i>Nut</i>                           | 8.8   A2-70   L7                                        |
| 6         | Goujon / <i>Stud</i>                         | 8.8   A2-70   L7                                        |
| 7*        | Joint / <i>Gasket</i>                        | Graphite-Inox / <i>Graphite-SST</i>                     |
| 9         | Douille de guidage / <i>Guiding bush</i>     | Bronze / <i>Bronze</i>   Inox / <i>Stainless steel</i>  |
| 10        | Ecrou à encoches / <i>Slotted round nut</i>  | Inox / <i>Stainless steel</i>                           |
| 18        | Siège / <i>Seat</i>                          | Inox / <i>Stainless steel</i>                           |
| 19*       | Joint / <i>Gasket</i>                        | PTFE-Inox / <i>PTFE-SST</i>                             |
| 21*       | Joint Spirale / <i>Spiral wound gasket</i>   | Graphite-Inox / <i>Graphite-SST</i>                     |
| 38        | Diffuseur / <i>Diffuser</i>                  | Inox / <i>Stainless steel</i>                           |
| 177*      | Douille d'équilibrage / <i>Balanced bush</i> | Inox / <i>Stainless steel</i>                           |
| 178*      | Joint de douille / <i>Gasket bush</i>        | Graphite-Inox / <i>Graphite-SST</i>                     |

\* Pièces de rechange / *Spare parts*



**ENERGY TAJHIZ MELAL**  
تجهيزات انرژي، تاسيسات و اتوماسيون صنايع

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