

# Liquids to Value





# Order Code for VARIVENT® Modulating Valves

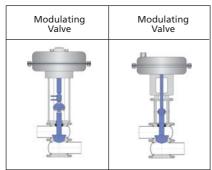
Made by GEA Tuchenhagen





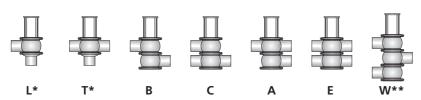
### Basic Valve Type

Type



S

#### 2 = Housing combination



\* not available for valve type AL, AT in size DN 125 and 6" IPS, \*\* available for type A only

#### 3 = Special valve options

- Control cone equal percentage
- Control cone linear
- Shuttle valve Type W

(Only available for valve type AW with linear cone and metal to metal seal)

- Shuttle valve Type X
- (Only available for valve type AW with linear cone and metal to metal seal) Κ
- (Only available for valve type AB, AC, AA, AE with linear cone and metal to metal seal)

### 4 = Valve size top/middle

 $\textbf{OD} \ 1", \ 11/2", \ 2", \ 21/2", \ 3", \ 4"; \quad \textbf{DN} \ 25, \ 40, \ 50, \ 65, \ 80, \ 100, \ 125; \quad \textbf{IPS} \ 2", \ 3", \ 4", \ 6"$ 

OD 1", 11/2", 2", 21/2", 3", 4"; DN 25, 40, 50, 65, 80, 100, 125; IPS 2", 3", 4", 6"

#### 6 = Fail position of valve

- Z closed
- open

#### **7** = Feedback switches

- no feedback
- 1 feedback (Valve type S with positioner 3760)
- 2 feedbacks

#### **8** = Type of feedback

- without
- 24 V DC 3-wire PNP (Valve type A with positioner 824) В
- 24 V DC 2-wire
- Binary-module (Valve type A with positioner 827A) M
- Slot-Prox.-Module (Valve type A with positioner 827A)
- Software limit switch (Valve type S with positioner 3730-2)

Α Ε F 3 1 2

#### 9 = ActuatorMFI-20 (Valve type A) MFI-30 (Valve type A) MFIII-30 (Valve type A) Modulating Valve MFIII-60 (Valve type A) Type A 240 (Valve type S) 350 (Valve type S) 700 (Valve type S) 10 = Number of springs (only for valve type A) (only for valve type A) (only for actuator type MFIII-60) Fixed number of springs (only for type S) 11 = Positioner 824 pneumatic (Valve type A) 2 824 electropneumatic (Valve type A) 824 electropneumatic with Ex-proof, intrinsically (Valve type A) 3 4 824 electropneumatic with Ex-proof, pressure resistant (Valve type A) 827A electropneumatic (Valve type A) 827A electropneumatic Profibus PA (Valve type A) 7 827A electropneumatic Eex (Valve type A) 3766 pneumatic (Valve type S) 3767 electropneumatic (Valve type S) 3780 electropneumatic (Valve type S) 12 13 3730-4 Profibus (Valve type S) 3730-0 electropneumatic (Valve type S) 15 3730-2 electropneumatic (Valve type S) 17 3730-3 electropneumatic HART (Valve type S) 18 3730-5 Fieldbus 12 = Type of valve disk seal metal to metal, without V-ring soft seal (with V-ring) 13 = KVS value According to table in Tuchenhagen Catalogue, register 3 (Enter KVS value into Field 13) 14 = Gasket material **EPDM (FDA)** 2 FKM (FDA) 3 HNBR (FDA) 4 FFKM, on request **15** = Surface finish of housings inside Ra 1,2 µm (# 3 polished ID, 45-50 RA, 100 Grit), outside matt (Inch IPS) inside Ra 0,8 µm (polished ID, 30-35 RA, 150 Grit), outside matt (DN Inch OD) 3 inside Ra 0,8 µm (polished ID, 30-35 RA, 150 Grit), outside smooth (3A Standard) 4 inside Ra 0,4 µm (# 6 polished ID, 15-20 RA, 240 Grit), outside matt inside Ra 0,5 µm (# 4 polished ID, 20-25 RA, 180 Grit), outside matt inside Ra 0,5 µm (# 4 polished ID, 20-25 RA, 180 Grit), outside smooth inside Ra 0,4 µm (# 6 polished ID, 15-20 RA, 240 Grit), outside smooth on request OD2" OD2" Ζ 2 R MFI-30 / 3 2 M 18 N 52 1 1 5 6 8 9 10 11 12 13 14 15 16 17



### **16** = Housing process connection

- weld ends
- with connection fittings (Specify process connections separately)
  - VARIVENT®-flange connection cpl., grooved flange at the housing
  - VARIVENT®-grooved flange cpl., incl. O-ring, screws and nuts
  - VARIVENT®-flange

  - NFK Aseptic-grooved flange, short
  - BFK Aseptic-counter flange, short
  - ASN Aseptic-flange connection cpl., normal
  - NFN Aseptic-grooved flange, normal
  - BFN Aseptic-counter flange, normal

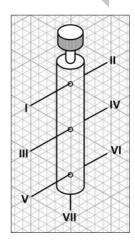
For multiple process connections the connection ports should be specified

## **17** = Other special optional equipment

(Expand this field with "/" as necessary to include all required options)

- Elektrolytical polished
- Pressure gauge set 1
- Positioner feedback, 4 20 mA, 3-wire (Valve type A) 2B
- 2F Positioner feedback, 4 - 20 mA, 2-wire
- 2M Analog-module (Valve type A with positioner 827A)
- Positioner feedback, 4 20 mA, 2-wire, NAMUR (Valve type A) 2E
- 3 Hart-module (Valve type A with postioner 827A)
- 3/2 solenoid valve 24 V DC (Valve type S) 4
- additional Handwheel 5
- 7 Ex-design
- 24 Sterile lock (Valve type A)
- 25 Jacketed housing
- Factory certificate acc. to EN10204-2.2
- Material acceptance test certificate acc. to EN10204-3.1B (for housing) 42
- Stainless steel ID tag 50
- **52** Self adhesive ID tag
- 55 Cable strip (10 characters)

CO Tri-Clamp
GK Pipe union DIN 11851, male part at the housing KO Liner SD DIN 11851, incl. groove nut GO Male part DIN 11851, incl. seal ring G actuator ASK Aseptic-flange connection cpl., short



lantern

upper housing

valve disk

valve seat

lower housing

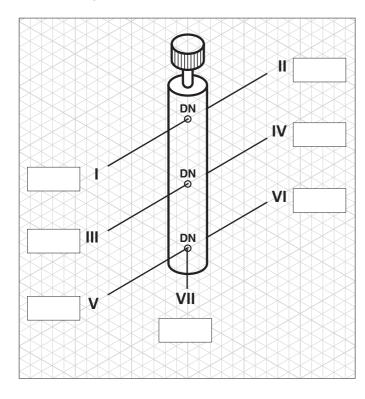


## **Purchase Order for VARIVENT® Modulating Valves**

Customer:	Requested delivery date:
	Contact person:
Order-No.:	

#### Quantity/ Valve specification 2 3 5 6 8 9 10 11 12 13 14 15 16 17 1 2 3 6 8 9 10 11 12 13 14 15 16 17

#### Socket arrangement and connection variant



#### **Connection fittings**

VARIVENT® flange connection, groove flange at the housing

VARIVENT® groove flange incl.O-ring, screws and nuts VARIVENT® flange

TF

CO Tri-clamp

GK Pipe union, DIN 11851, malepart at the housing

GO Malepart SC, DIN 11851, incl. seal ring G

KO Liner SD, DIN 11851, incl. groove nut

ASK Aseptic flange connection DIN 11864-2 (short)

NFK Aseptic groove flange, DIN 11864-2 (short)

BFK Aseptic collar flange, DIN 11864-2 (short)

AVK Aseptic union, DIN 11864-1 (short)

GSK Aseptic malepart, DIN 11864-1 (short)

BSK Aseptic colar socket, DIN 11864-1 (short)

ASN Aseptic flange connection, DIN 11864-2 (normal)

NFN Aseptic groove flange, DIN 11864-2 (normal)

BFN Aseptic collar flange, DIN 11864-2 (normal)

AVN Aseptic union, DIN 11864-1 (normal)

GSN Aseptic malepart, DIN 11864-1 (normal)

BSN Aseptic colar socket, DIN 11864-1 (normal)



**GEA Mechanical Equipment** 

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