

# Order Key for VARIVENT® Valves

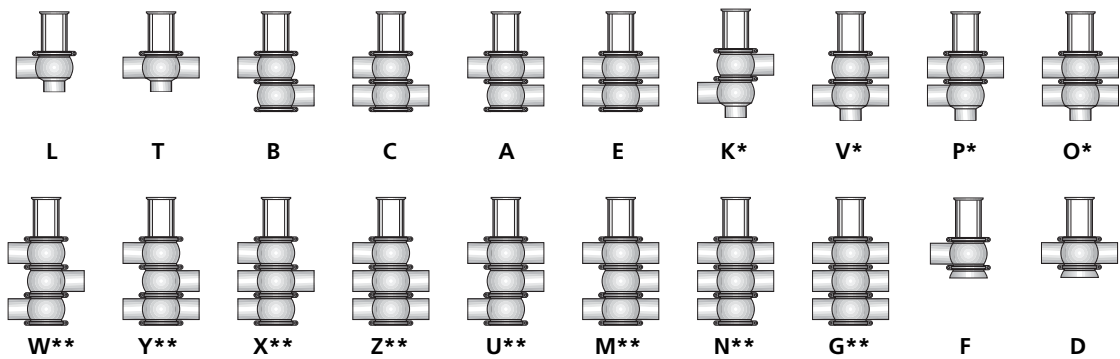


**1 = Basic Valve Type**

[Back to INDEX](#)

Type	N	U	C	K	D	T	B	R	W	X	Y	Q
Shut-Off Valve												

**2 = Housing combination**



\* available for valve type W only; \*\* available for valve type W, X and Y only

**3 = Special valve options (leave blank if special options are not necessary)**

- F Control cone equal percentage (Valve type N)
- V Long-Stroke (Valve type N, W; DN 65-100/OD 2 1/2"-4")
- R Valve disk with radial seal (Valve type W, standard for valve type T)
- L Lifting actuator (Valve type D, B, R, Y, T)
- C Lifting actuator without spray cleaning (Valve type D, B, R, Y, T)

**4 = Valve size top/middle**

OD 1", 1 1/2", 2", 2 1/2", 3", 4"; DN 25, 40, 50, 65, 80, 100, 125, 150; IPS 2", 3", 4", 6"

**5 = Valve size bottom**

OD 1", 1 1/2", 2", 2 1/2", 3", 4"; DN 25, 40, 50, 65, 80, 100, 125, 150; IPS 2", 3", 4", 6"

**6 = Type of actuator**

- S Air / Spring
- G Manual operation with interlocking
- J Air / Air
- L Air / Spring, Long-Stroke (Valve type N, W; DN 65-100/OD 2 1/2"-4")
- M Adjustable pressure spring with lifting device (Valve type Q)
- F Adjustable pressure spring (Valve type Q)
- Z Air / Spring, with additional air boost (Valve type N, W, X, D, K, Y, standard for valve type C)

Example

D	E	L
1	2	3

**7 = Fail position of valve**

- Z closed
- A open

**8 = Location of feedback**

- T Control module T.VIS®
- S Control module sensor technic
- L Lantern
- A Control module for micro switch
- 0 without

**9 = Control module base**

- N no solenoid valve (not available for T.VIS®)
- P 1 solenoid valve
- I 2 solenoid valves
- L 3 solenoid valves
- T no solenoid valve, cable inserted in the air hose (Control module for micro switch)
- V 1 Solenoid valve, 1 x NOT-element (T.VIS®)
- X 2 Solenoid valves, 1 x NOT-element (T.VIS®)
- Y 3 Solenoid valves, 1 x NOT-element (T.VIS®)
- 0 without (Control module 0)

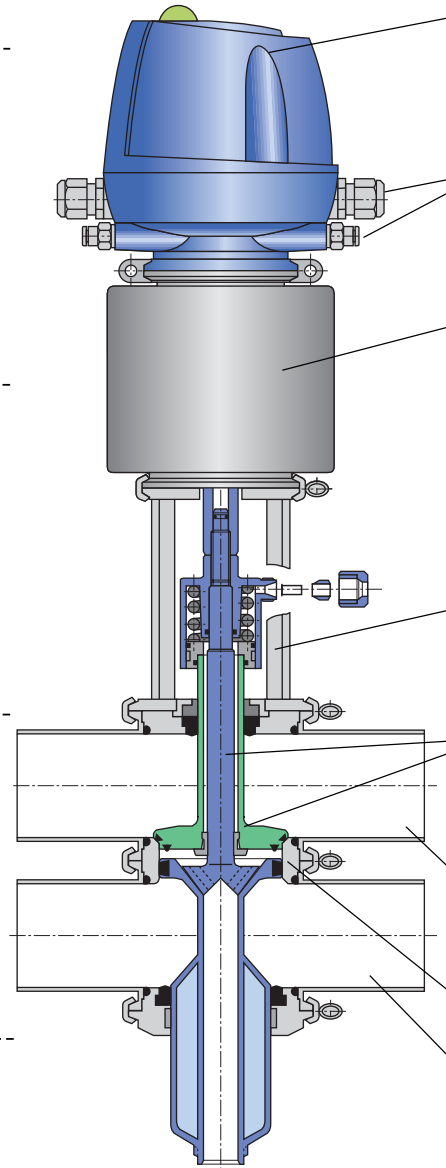
**10 = Feedback switches**

- 0 no feedback
- 1 1 feedback
- 2 2 feedbacks
- 3 2 feedbacks + 1 (lantern)
- 4 1 feedback + 1 (lantern)
- 5 no feedback in the Control module base + 1 (lantern)
- 6 without, prepared for 1 feedback in the lantern
- 7 without, prepared for 2 feedbacks in the lantern
- 8 T.VIS®
- 9 T.VIS® with external proximity switch

**11 = Interface module**

- A ASI-Bus
- B 24 V DC, 3-wire, PNP
- C 20-250 V AC
- D DeviceNet
- E EEx / NAMUR
- F 24 V DC 2-wire (L+)
- G 24 V DC 2-wire (L-)
- M Micro switch 24 V DC
- U Micro switch 120 V AC UL/CSA
- 0 without

**Mixproof Valve Type R**



-	OD3"	/	OD4"	-	S	Z	-	T	L	8	B	F	M	-	CD /CLB	-	V1	-	1	1	N	/	52
	4		5		6	7		8	9	10	11	12	13		14		15		16	17	18		19

**12 = Solenoid valve**

- A 24 V DC, 1,0W
- B 110 V AC
- C 24 V AC
- E 12 V DC 0,55W EEx
- F **12 V DC 1,0W (T.VIS®)**
- 0 no solenoid valve

**13 = Connection (Cable/Air)  
for air tubing Ø 6/4 mm**

- M **M20 x 1,5 (Pg13,5)**
- A Connection box with cable M20x1,5 (Pg13,5) (ASI-Bus)
- F Vampire clip M20x1,5 (Pg13,5) (ASI-Bus)
- L 4-pin Connector M12/M20x1,5 (Pg13,5) (ASI-Bus)
- D 5-Pin. Connector M12/Pg13,5 (DeviceNet)
- E EEx/M20x1,5 (Pg13,5) (Namur)
- 0 without

**Connection (Cable/Air)  
for air tubing 1/4" OD (6,35/4,35 mm)**

- Z 0,5" NPT (Standard-US)
- S Connection box with cable (ASI-Bus/US)
- V Vampire clip (ASI-Bus/US)
- U 4-pin connector, M12 (ASI-Bus/US)
- K 5-pin connector, M12 (DeviceNet/US)
- N EEx (Namur/US)
- B Brad Harrison 0,5" BSP, 5-pin (US)
- C Brad Harrison 0,5" BSP, 4-pin (US)

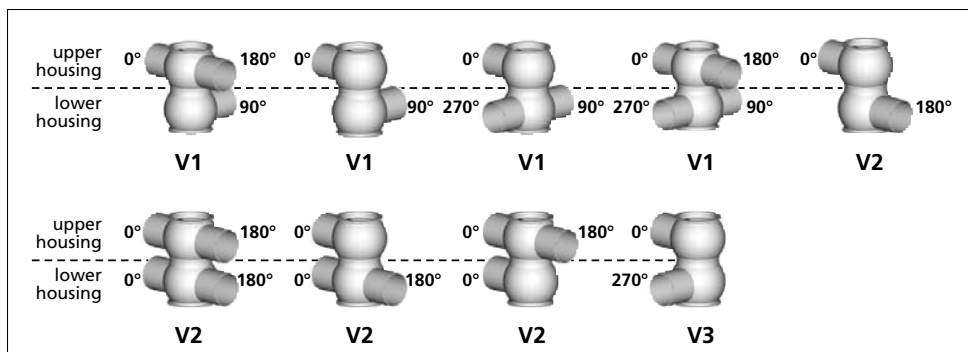
**14 = Actuator**

- According to table in Tuchenhagen catalogue, register 2

**15 = Valve seat option**

- L0 clamped seat ring
  - V0\* welded vertical socket (Valve type NL, NT, CL, CT, KL, KT, WK, WV, WP, WO)
  - V1\* welded seat ring, port orientation 90°
  - V2\* welded seat ring, port orientation 180°
  - V3\* welded seat ring, port orientation 270°
- \*not available for valve type UF, UD, TLR, TTR, W, X, Y, Q; except for WPR and WKR

**Port orientation**



**16 = Gasket material**

- 1 **EPDM (FDA)**
- 2 FPM (FDA)
- 3 HNBR (FDA)
- 4 FFPM, on request

Control module

Connection (Cable/Air)

Actuator

Lantern

Valve disk

Upper housing

Valve seat

Lower housing

**17 = Surface finish**

- 1 inside Ra 1,2 µm (# 3 polished ID, 45-50 RA, 100 Grit), outside matt
- 2 inside Ra 0,8 µm (polished ID, 30-35 RA, 150 Grit), outside matt
- 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
- 5 inside Ra 0,8 µm (polished ID, 30-35 RA, 150 Grit), Valve completely smooth (with 3A symbol)
- 6 inside Ra 0,5 µm (# 4 polished ID, 20-25 RA, 180 Grit), outside matt
- 7 inside Ra 0,5 µm (# 4 polished ID, 20-25 RA, 180 Grit), outside smooth
- 8 inside Ra 0,4 µm (# 6 polished ID, 15-20 RA, 240 Grit), outside smooth
- 9 inside Ra 1,2 µm (# 3 polished ID, 45-50 RA, 100 Grit), Valve completely smooth
- X on request

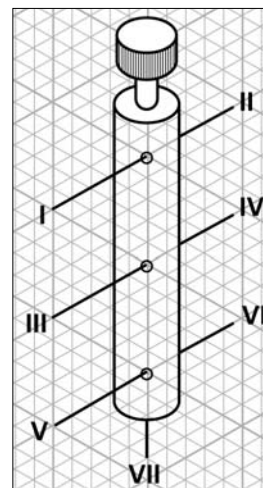
**18 = Housing process connection**

**N weld ends**

J with connection fittings (Please specify process connections **separately**)

- TK VARIVENT® flange connection cpl., grooved flange at the housing
- TN VARIVENT® grooved flange cpl., incl. O-ring, screws and nuts
- TF VARIVENT® flange
- 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
- ASK Aseptic-flange connection cpl., short
- 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.



**19 = Other special optional equipment**

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

- 12 Damping cylinder with bypass
- 16 2-Position stop (not available for valve type U and fail open position)
- 20 Limit stop, to open (Not available for mixproof valves)
- 21 Limit stop, to close (Not available for mixproof valves)
- 23 Steril lock bottom (Balancer)
- 24 Sterile lock complete (not available for valve type K)
- 25 Jacketed housing
- 26 Leakage connector
- 32 1m CIP-hose, including connection
- 36 CIP-connection blind
- 41 Factory certificate acc. to EN10204-2.2
- 42 Material acceptance test certificate acc. to EN10204-3.1B (for housing)
- 43 UV resistant coating for control module
- 50 Stainless steel ID tag
- 52 **Self adhesive ID tag**
- 53 Plastic ID tag (8 characters)
- 54 Double plastic ID tag (20 characters)
- 55 Cable strip (10 characters)
- 3A 3A Symbol
- K1 Leakage pipe straight (Valve type K)
- K2 Leakage pipe 90° (Valve type K)

## Purchase Order for VARIVENT® Valves

Customer: \_\_\_\_\_

Requested delivery date: \_\_\_\_\_

\_\_\_\_\_

Contact person: \_\_\_\_\_

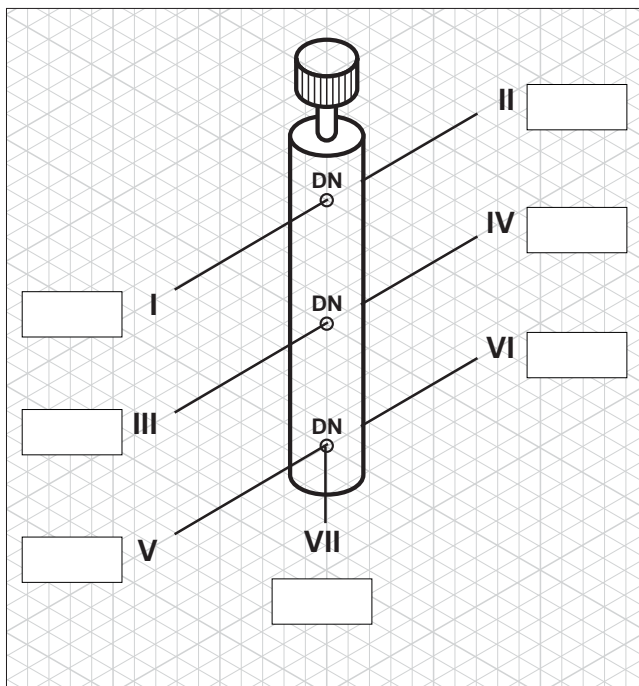
Order-No.: \_\_\_\_\_

Quantity

Valve specification

			-	/	-		-							-	/	-	-			-	
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19			
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1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19			

### Socket arrangement and connection variant



### Connection fittings

- TK** VARIVENT® flange connection, groove flange at the housing
- TN** VARIVENT® groove flange incl.O-ring, screws and nuts
- TF** VARIVENT® flange
  
- 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 lange 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)