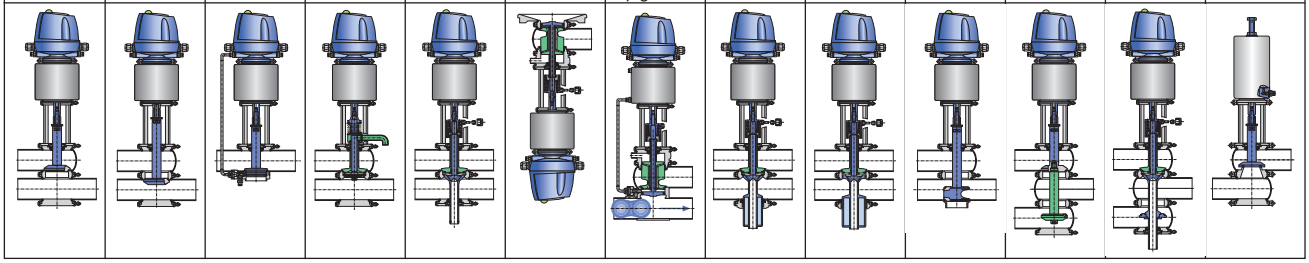
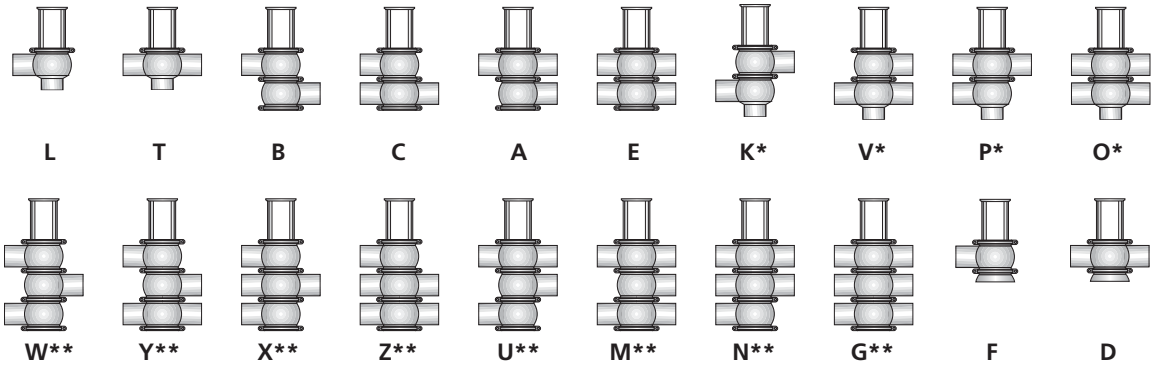
Order Code for VARIVENT® Valves Page1

1 = Basic Valve Type

Type	N	U	C	K	D	T	L	B	R	W	X	Y	Q
	Shut-Off Valve	Shut-Off Valve	Double Seal Valve	Mixproof Valve	Mixproof Valve	Mixproof Bottom Valve	Mixproof valve pigable	Mixproof Valve	Mixproof Valve	Change-over Valve	Change-over Valve	Mixproof Change-over Valve	Overflow Valve
													

2 = Housing combination



L T B C A E K* V* P* O*

W** Y** X** Z** U** M** N** G** F D

* 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)

- L Lifting actuator (Valve type D, B, R, Y, T, L)
- C Lifting actuator without spray cleaning (Valve type D, B, R, Y, T, L)
- F Control cone equal percentage (Valve type N)
- V Long-Stroke (Valve type N, W; DN 65-100/OD 2½"-4")
- R Valve disk with radial seal (Valve type W, standard for valve type T)

4 = Valve size top/middle

OD 1", 1½", 2", 2½", 3", 4"; **DN** 25, 40, 50, 65, 80, 100, 125, 150; **IPS** 2", 3", 4", 6"

5 = Valve size bottom

OD 1", 1½", 2", 2½", 3", 4"; **DN** 25, 40, 50, 65, 80, 100, 125, 150; **IPS** 2", 3", 4", 6"

6 = Type of actuator

- **S Air / Spring**
- Z Air / Spring, with additional air boost (Valve type N, W, X, D, K, Y, standard for valve type C)
- J Air / Air
- G Manual operation with interlocking
- M Adjustable pressure spring with lifting device (Valve type Q)
- F Adjustable pressure spring without lifting device (Valve type Q)

7 = Fail position of valve

- **Z closed**
- A open

8 = Actuator

- According to table in GEA Tuchenhagen catalogue, register 2

Example

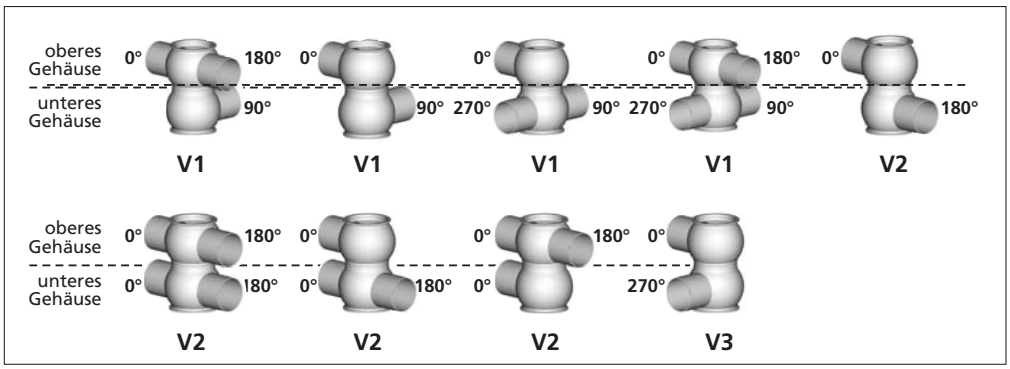
R	E	L
1	2	3

Order Code for VARIVENT® Valves Page2

9 = **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

Stutzenstellung



10 = **Gasket material**

1 EPDM (FDA)
2 FKM (FDA)
3 HNBR (FDA)
4 FFKM, on request

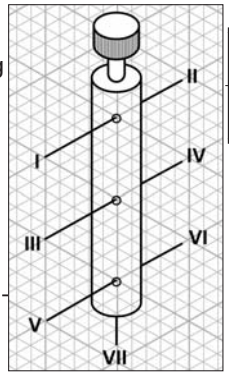
11 = **Surface finish of housings**

1 inside Ra 1,2 µm (# 3 polished ID, 45-50 RA, 100 Grit), outside matt (Inch IPS)
2 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
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
X on request

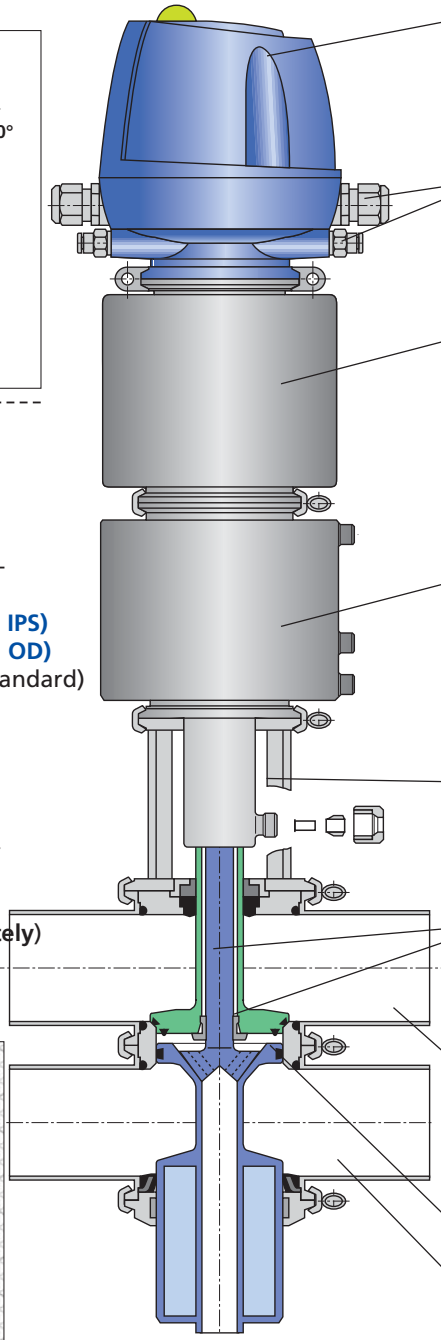
12 = **Housing process connection**

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, DIN 32676 (DN) / ISO 2852 (OD)
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 Hygienic-flange connection cpl., DIN 11853-2
NFK Hygienic-grooved flange, DIN 11853-2
BFK Hygienic-counter flange, DIN 11853-2
For multiple process connections the connection ports should be specified.



Mixproof Valve Type REL



OD2 1/2"	/	OD3"	-	S	Z	-	BD/CLR	-	V1	-	1	2	N	/	52	+	TM1	L	3	B	A	M
4		5		6	7		8		9		10	11	12		13		14	15	16	17	18	19

Order Code for VARIVENT® Valves Page3

13 = **Other special optional equipment**
(Expand this field with "/" as necessary to include all required options)

E	Elektrolytical polished
12	Damping cylinder with bypass
16	Two-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
27	With 1 flushing valve only (Valve type C)
28	Vertical socket for orbital welding (valve type NL, NT, WK, WV, WP, WO)
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 EN10204-3.1 for housing (Inner parts on request)
50	Stainless steel ID tag
52	**Self adhesive ID tag**
55	Cable strip (10 characters)
3A	3A Symbol
K1	Leakage pipe straight (Valve type K)
K2	Leakage pipe 90° (Valve type K)

14 = **Location of feedback**

TM1	**Control module T.VIS® M-1 (mechanical setup)**
TA8	Control module T.VIS® A-8 (automatic setup)
SES	Control module sensor technic (only for ATEX)
LAT	Lantern (M12x1)
INA	Proximity switch holder for connection 0 (M12x1)
TP20	Control module T.VIS® P-20
000	without

15 = **Control module base**

N	no solenoid valve (TM1, SES, TA8)
P	**1 solenoid valve (TM1, SES, TA8)**
R	1 solenoid valve, prepared for 2nd and 3rd solenoid valve (TM1)
I	2 solenoid valves (Y-1 main stroke and Y-2 lift valve disk) (TM1, SES, TP20, TA8)
J	2 solenoid valves (Y-1 main stroke and Y-3 lift double disk or externel process valve) (TM1, TA8)
L	3 solenoid valves (TM1, SES, TA8)
V	1 Solenoid valve, 1 x NOT-element (TM1, TA8)
X	2 Solenoid valves, 1 x NOT-element (TM1, TA8)
Y	3 Solenoid valves, 1 x NOT-element (TM1, TA8)
0	without (000, LAT, INA)

16 = **Feedback switches**

0	no feedback
1	1 feedback (SES, LAT, INA)
2	**2 feedbacks (TM1, SES, LAT, INA)**
3	2 feedbacks with 1 proximity switch in the lantern (TM1, SES)
4	T.VIS® P-20 (with analogue module)
5	T.VIS® P-20 (with analogue module + 2 feedbacks and error output)
7	without, prepared for 2 feedbacks in the lantern (LAT)
8	T.VIS® A-8 (TA8)
9	T.VIS® A-8 with 1 proximity switch in the lantern (TA8)
0	without

* can be used for 48-200 V DC (TM1)

- Control module
- Connection (Cable/Air)
- Actuator
- Lifting actuator
- Lantern
- Valve disk
- Upper housing
- Valve seat
- Lower housing

Order Code for VARIVENT® Valves Page4

17 = Interface module

A	AS-Interface-Bus (TM1, TA8)
B	**24 V DC, 3-wire, PNP (TM1, TA8)**
N	24 V DC, 3-wire, NPN (TM1)
C*	48-130 V AC (TM1*)
D	DeviceNet (TM1, TA8)
E	EEx / ATEX (SES
P	24 V DC programmable (TP-20)

18 = Solenoid valve

A	**24 V DC, 0,85 W (TM1, TA8, SES, TP20)**
E	12 V DC, ATEX (SES)
X	24 V DC, ATEX (SES)
0	no solenoid valve

19 = Connection (Cable/Air)

for air tubing Ø 6/4 mm

M	**M20 x 1,5 (TM1)**
A	Connection box with cable M20x1,5 (AS Interface-Bus) (TM1)
L	2-pin connector M12/M20x1,5 (AS Interface-Bus) (TM1)
D	5-pin connector M12 (DeviceNet, TP20)
E	EEx/M20x1,5 (Namur) (SES)
J	5-pin connector M12/5-wires/M20x1,5 (24V DC, AS Interface-Bus, DeviceNet) (TA8, TM1 only 24V DC)
H	8-pin connector M12/8-wires/M20x1,5 (24V DC) (TA8, TM1)
0	without

for air tubing Ø 1/4" OD (6,35/4,35 mm)

Z	0,5" NPT (Standard-US)
S	Connection box with cable (AS Interface-Bus/US) (TM1)
U	2-pin connector, M12 (AS Interface-Bus/US) (TM1)
K	5-pin connector, M12 (DeviceNet/US, TP20)
N	EEx (Namur/US) (SES)
B	Brad Harrison 0,5" BSP, 5-pin (US) (TM1)
C	Brad Harrison 0,5" BSP, 4-pin (US) (TM1)
P	5-pin connector M12/5-wires/M20x1,5 (24V DC, AS Interface-Bus, DeviceNet) (TA8, TM1 only 24V DC)
I	8-pin connector M12/8-wires/M20x1,5 (24V DC) (TA8, TM1)

20 = Feedback options

18	Supply air throttle (TM1, TA8)
19	Exhaust air throttle (TM1, TA8)
22	24 V DC/DeviceNet: cable box M12/5-pol for connection J & P; M 12/ 8 pol for connection I & H
43	Control module, material VESTAMID®*) UV resistant material; for oil and fat containing control air
67	Protection class IP67 (T.VIS® A-7, M-1 and P-20)
81	ASi: ASi-connection box with M12-connector, cable length: 1m
82	ASi: ASi-connection box with M12-connector, cable length: 2m

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