

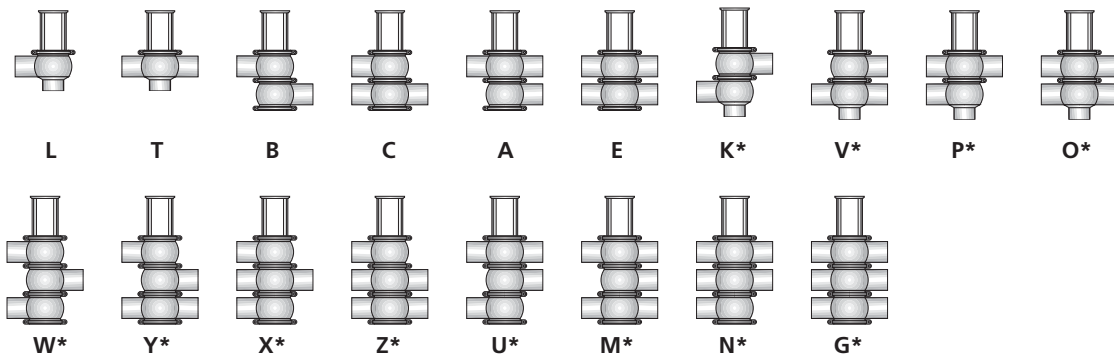
## Order Code for ECOVENT® Valves Page 1

### 1 = Basic Valve Type

Type    N                      W                      N                      W

Shut-off Valve DN 10/15	Shuttle Valve DN 10/15	Shut-off Valve	Shuttle Valve

### 2 = Housing combination



\* available for valve type W only

### 3 = Special valve options

ECO ECOVENT®

### 4 = Valve size top/middle

OD 1", 1 1/2", 2", 2 1/2", 3", 4"; DN 10, 15, 25, 40, 50, 65, 80, 100

### 5 = Valve size bottom

OD 1", 1 1/2", 2", 2 1/2", 3", 4"; DN 10, 15, 25, 40, 50, 65, 80, 100

### 6 = Type of actuator

E ECOVENT®, Air / Spring

### 7 = Fail position of valve

Z closed

A open

### 8 = Actuator

- According to table in Tuchenhausen catalogue, register 2

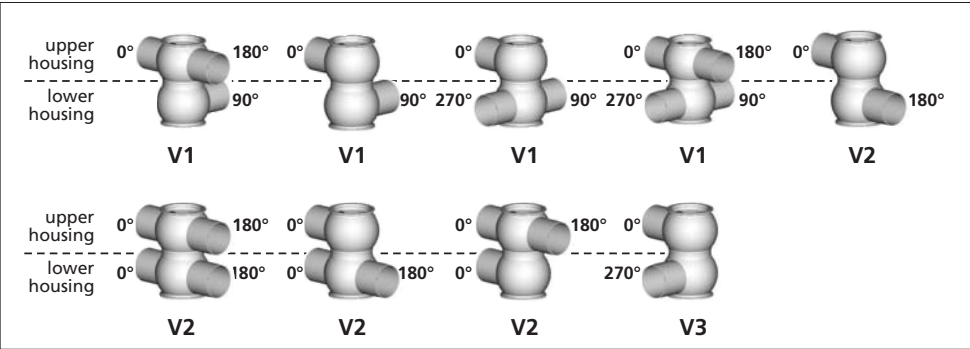
Example

W	K	ECO
1	2	3

9 = Valve seat option

- L0 clamped seat ring
- V0 welded vertical socket (Valve type NL, NT, 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°
- \*available for valve type NB, NC, NE

Port orientation



10 = Gasket material

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

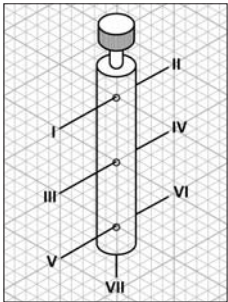
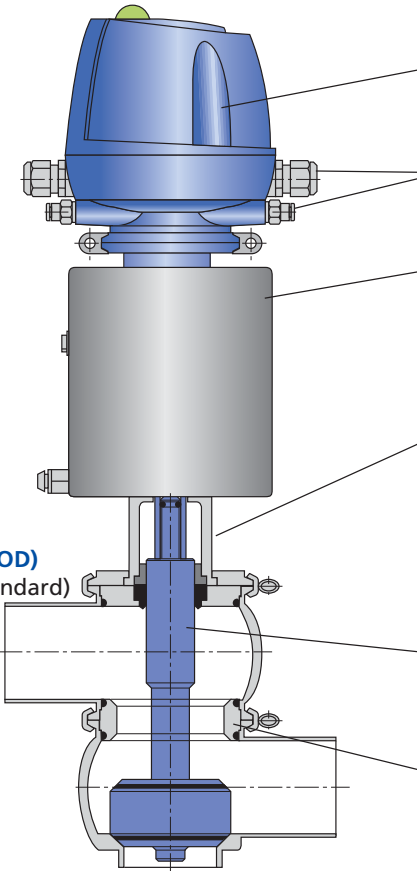
11 = Surface finish of housings

- 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 (Standard)
  - J with connection fittings (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

ECOVENT® Shuttle Valve  
Type W



2"	/	2"	-	E	Z	-	ECB	-	V0	-	1	2	N	/	52	+	TM1	P	2	B	A	M	/
4		5		6	7		8		9		10	11	12		13		14	15	16	17	18	19	

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13 = Other special optional equipment

- (Expand this field with "/" as necessary to include all required options)
- E Elektrolytical polished
  - 22 24 V DC: M 12/ 8-pol for connection H & I
  - 25 Jacketed housing
  - 28 Vertical socket for orbital welding (valve type NL, NT, WK, WV, WP, WO)
  - 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 stamp

control module

connection  
(cable/air)

actuator

lantern

valve disk

valve seat

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)
- INA Proximity switch holder (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, TA8, SES)
- I 2 solenoid valves (Y1 main stroke and Y-2 lift valve disk) (TM1, SES, TP20)
- V 1 solenoid valve and 1 x NOT-element (TM1, TA8)
- 0 without (INA, 000)

16 = Feedback switches

- 0 no feedback
- 1 1 feedback (SES, INA)
- 2 2 feedbacks (TM1, SES, INA)
- 4 T.VIS® P-20 (with analogue module)
- 5 T.VIS® P-20 (with analogue module + 2 feedbacks and error output)
- 8 T.VIS® A-8 (TA8)

17 = Interface module

- A AS-Interface-Bus (TM1, TA8, SES)
- B 24 V DC, 3-wire, PNP (TM1, TA8)
- N 24 V DC, 3-wire, NPN (TM1)
- C\* 48-130 V AC (TM1\*, SES)
- D DeviceNet (TM1, SES, TA8)
- E EEx / ATEX (SES)
- P 24 V DC programmable (TP-20)
- 0 without
- \* can be used for 48-200 V DC (TM1)

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## 18 = Solenoid valve

- A 24 V DC, 0,85 W (TM1, TA8, SES, TP20)
  - B 110 V AC, 3,0 W (SES)
  - E 12 V DC, ATEX (SES)
  - X 24 V DC, ATEX (SES)
  - 0 without
- 

## 19 = Connection (Cable/Air)

for air tubing Ø 6/4 mm

### M M20x1,5 (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/M20x1.5 (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 M20x1.5 (AS Interface-Bus/US) (TM1)
  - U 2-pin connector M12/M20x1.5 (AS Interface-Bus/US) (TM1)
  - K 5-Pin. connector M12/M20x1.5 (DeviceNet/US, TP20)
  - N EEx/M20x1,5 (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)
- 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

\*) VESTAMID® is registered as a trademark of the Degussa AG

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