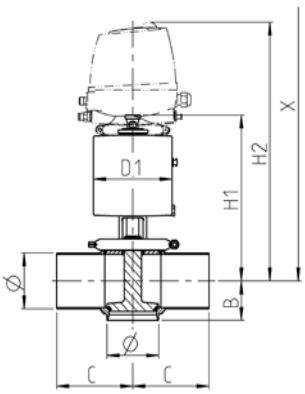
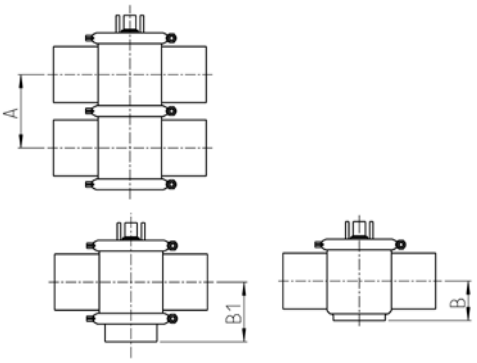
КЛАПАНЫ И КОМПОНЕНТЫ ECOVENT

Технические характеристики

Technical data of the standard version	
Recommended flow direction	From bottom to top
Material in contact with the product	1.4404/AISI 316 L
Material not in contact with the product	1.4301/AISI 304
Seal material in contact with the product	EPDM, FKM, HNBR
Ambient temperature	0 to 45 °C
Air supply pressure	6 bar (87 psi)
Product pressure	5 bar (73 psi)
Surface in contact with the product	$R_a \leq 0.8$ µm
External housing surface	Matte blasted
Control and feedback system	Connection 0 (without control top)
Actuator type	Pneumatic actuator air/spring
Connection fittings	Welding end
Identification	Adhesive ID tag
Valve seat version	Clamped or welded seat ring
Certificates	CE FDA





Loose seat ring

Fixed vertical port

	Pipe	Housing				Actuator	Dimensions			Valve	
Nominal width	Ø [mm]	A [mm]	B [mm]	B1 [mm]	C [mm]	D1 [mm]	H1 [mm]	H2 [mm]	Extension X [mm]	Stroke S [mm]	Weight [kg]
DN 25	29.0 × 1.50	50.0	31	58.0	90	99	209	338	423	16.0	5
DN 40	41.0 × 1.50	62.0	39	64.0	90	110	243	372	457	20.0	7
DN 50	53.0 × 1.50	74.0	41	70.0	90	110	249	378	463	28.0	7
DN 65	70.0 × 2.00	96.0	52	83.0	125	135	257	386	531	28.0	11
DN 80	85.0 × 2.00	111.0	60	90.5	125	135	264	393	538	28.0	11
DN 100	104.0 × 2.00	130.0	70	100.0	125	170	274	403	548	28.0	16
OD 1"	25.4 × 1.65	46.0	29	56.0	90	99	207	336	421	12.0	5
OD 1 ½"	38.1 × 1.65	59.0	39	62.5	90	110	241	370	455	17.0	7
OD 2"	50.8 × 1.65	71.5	42	69.0	90	110	248	377	462	25.5	7
OD 2 ½"	63.5 × 1.65	90.0	54	80.0	125	135	254	383	528	22.0	11
OD 3"	76.2 × 1.65	103.0	54	86.5	125	135	260	389	534	20.0	11
OD 4"	101.6 × 2.11	127.5	69	99.0	125	170	273	402	547	25.5	17

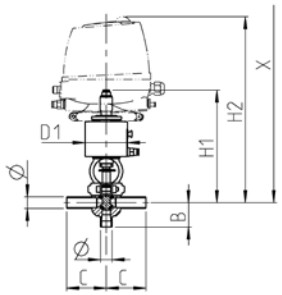
Position	Description of the order code for the standard version											
1	**Valve type**											
	N	ECOVENT® single-seat valve										
2	**Housing combinations**											
	A	B	C	E	L	T						
												
3	**Supplement to the valve type**											
	/ECO											
4/5	**Nominal width (upper housing/lower housing)**											
	DN 25	OD 1"										
	DN 40	OD 1 ½"										
	DN 50	OD 2"										
	DN 65	OD 2 ½"										
	DN 80	OD 3"										
	DN 100	OD 4"										
6	**Actuator type**											
	E	Air/Spring										
7	**Non-actuated position**											
	Z	Spring-to-close (NC)										
	A	Spring-to-open (NO)										
8	**Standard configuration with 6 bar air supply pressure for 5 bar product pressure (higher pressures on request)**											
	Actuator (spring-to-close)	**Actuator (spring-to-open)**	**For nominal widths**									
	EAA	EAA	DN 25, OD 1"									
	EBB	EBA	DN 40, DN 50, OD 1 ½", OD 2"									
	ECD	ECB	DN 65, DN 80, OD 2 ½", OD 3"									
	EDF	EDD	DN 100, OD 4"									
9	**Valve seat version (upper housing/lower housing)**		Housing combination A	B	C	E	L	T				
	L0	Loose seat ring/Clamp connection	√	√	√	√	√	√				
	V0	Fixed vertical port					√	√				
	V1	Welded seat ring/ Port orientation 90°										
	V2	Welded seat ring/ Port orientation 180°										
	V3	Welded seat ring/ Port orientation 270°										
10	**Seal material in contact with the product**											
	1	EPDM (FDA)										
	2	FKM (FDA)										
	3	HNBR (FDA)										
11	**Surface quality of the housing**											
	2	Inside $R_a \leq 0.8$ µm, outside matte blasted										
12	**Connection fittings**											
	N	Welding end										
13	**Accessories**											
	/52	Adhesive ID tag										
+												
14–19	**Air connection/Control and feedback system**											
	00000M	Metric for air hose Ø 6/4 mm										
	00000Z	Inch for air hose Ø OD ¼" (6.35/4.35 mm)										
	XXXXX	Order code for different control and feedback systems see section 10										

The code is composed as following, depending on the chosen configuration:

Position	1	2	3		4/5		6	7		8		9		10	11	12	13		14 to 19					
Code	N		/ECO	-	/	-	E		-		-		-		2	N	/52	+						

For order codes differing from the standard version, please refer to section 8 (options).

Technical data of the standard version	
Recommended flow direction	From bottom to top
Material in contact with the product	1.4404/AISI 316 L
Material not in contact with the product	1.4301/AISI 304
Seal material in contact with the product	EPDM, FKM, HNBR
Ambient temperature	0 to 45 °C
Air supply pressure	5 bar (73 psi)
Product pressure	10 bar (145 psi)
Surface in contact with the product	$R_a \leq 0.8$ µm
External housing surface	Matte blasted
Control and feedback system	Connection 0 (without control top)
Actuator type	Pneumatic actuator air/spring
Connection fittings	Welding end
Identification	Adhesive ID tag
Valve seat version	Fixed vertical port
Certificates	CE FDA



	Pipe	Housing		Actuator	Dimensions			Valve	
Nominal width	Ø [mm]	B [mm]	C [mm]	D1 [mm]	H1 [mm]	H2 [mm]	Extension X [mm]	Stroke S [mm]	Weight [kg]
DN 10	13 × 1.50	40	65	70	166	295	345	8.5	4
DN 15	19 × 1.50	40	65	70	169	298	348	8.5	4

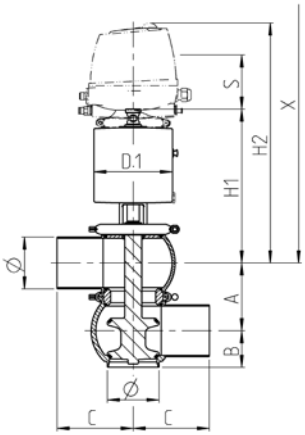
Position	Description of the order code for the standard version			
1	**Valve type**			
	N	ECOVENT® single-seat valve		
2	**Housing combinations**			
	L  T 			
3	**Supplement to the valve type**			
	/ECO			
4/5	**Nominal width (upper housing/lower housing)**			
	DN 10			
	DN 15			
6	**Actuator type**			
	E	Air/Spring		
7	**Non-actuated position**			
	Z	Spring-to-close (NC)		
	A	Spring-to-open (NO)		
8	**Standard configuration with 5 bar air supply pressure for 10 bar product pressure (higher pressures on request)**			
	Actuator (spring-to-close)	**Actuator (spring-to-open)**		
	60/4	60/4		
9	**Valve seat version (upper housing/lower housing)**		Housing combination L	Housing combination T
	V0	Fixed vertical port	√	√
10	**Seal material in contact with the product**			
	1	EPDM (FDA)		
	2	FKM (FDA)		
	3	HNBR (FDA)		
11	**Surface quality of the housing**			
	2	Inside $R_a \leq 0.8$ µm, outside matte blasted		
12	**Connection fittings**			
	N	Welding end		
13	**Accessories**			
	/52	Adhesive ID tag		
+				
14–19	**Air connection/Control and feedback system**			
	00000M	Metric for air hose Ø 6/4 mm		
	00000Z	Inch for air hose Ø OD ¼" (6.35/4.35 mm)		
	XXXXX	Order code for different control and feedback systems see section 10		

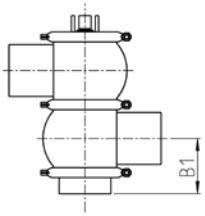
The code is composed as following, depending on the chosen configuration:

Position	1	2	3		4/5		6	7		8		9		10	11	12	13		14 to 19					
Code	N		/ECO	-	/	-	E		-	60/4	-	V0	-		2	N	/52	+						

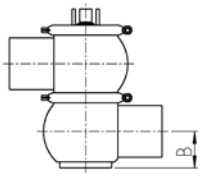
For order codes differing from the standard version, please refer to section 8 (options).

Technical data of the standard version	
Recommended flow direction	Product-merging
Material in contact with the product	1.4404/AISI 316 L
Material not in contact with the product	1.4301/AISI 304
Seal material in contact with the product	EPDM, FKM, HNBR
Ambient temperature	0 to 45 °C
Air supply pressure	6 bar (87 psi)
Product pressure	5 bar (73 psi)
Surface in contact with the product	$R_a \leq 0.8$ µm
External housing surface	Matte blasted
Control and feedback system	Connection 0 (without control top)
Actuator type	Pneumatic actuator air/spring
Connection fittings	Welding end
Identification	Adhesive ID tag
Valve seat version	Clamped seat ring or fixed vertical port
Certificates	CE FDA



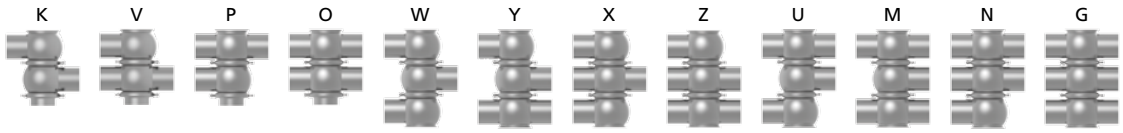


Loose seat ring



Fixed vertical port

	Pipe	Housing				Actuator	Dimensions			Valve	
Nominal width	Ø [mm]	A [mm]	B [mm]	B1 [mm]	C [mm]	D1 [mm]	H1 [mm]	H2 [mm]	Extension X [mm]	Stroke S [mm]	Weight [kg]
DN 25	29.0 × 1.50	50.0	31	58.0	90	99	209	338	498	15	6
DN 40	41.0 × 1.50	62.0	39	64.0	90	110	243	372	532	24	10
DN 50	53.0 × 1.50	74.0	41	70.0	90	110	249	378	538	24	10
DN 65	70.0 × 2.00	96.0	52	83.0	125	135	257	386	671	26	17
DN 80	85.0 × 2.00	111.0	60	90.5	125	135	264	393	678	26	18
DN 100	104.0 × 2.00	130.0	70	100.0	125	170	274	403	688	26	23
OD 1"	25.4 × 1.65	46.0	29	56.0	90	99	207	336	496	11	6
OD 1 ½"	38.1 × 1.65	59.0	39	62.5	90	110	241	370	530	24	9
OD 2"	50.8 × 1.65	71.5	42	69.0	90	110	248	377	537	24	10
OD 2 ½"	63.5 × 1.65	90.0	54	80.0	125	135	254	383	668	26	18
OD 3"	76.2 × 1.65	103.0	54	86.5	125	135	260	389	674	26	18
OD 4"	101.6 × 2.11	127.5	69	99.0	125	170	273	402	687	26	23

Position	Description of the order code for the standard version												
1	**Valve type**												
	W	ECOVENT® divert valve											
2	**Housing combinations**												
	 K V P O W Y X Z U M N G												
3	**Supplement to the valve type**												
	/ECO												
4/5	**Nominal width (upper housing/lower housing)**												
	DN 25	OD 1"											
	DN 40	OD 1 ½"											
	DN 50	OD 2"											
	DN 65	OD 2 ½"											
	DN 80	OD 3"											
	DN 100	OD 4"											
6	**Actuator type**												
	E	Air/Spring											
7	**Non-actuated position**												
	Z	Spring-to-close (NC)											
	A	Spring-to-open (NO)											
8	**Standard configuration with 6 bar air supply pressure for 5 bar product pressure (higher pressures on request)**												
	Actuator (spring-to-close)	**Actuator (spring-to-open)**	**For nominal widths**										
	EAA	EAA	DN 25, OD 1"										
	ECB	ECB	DN 40, DN 50, OD 1 ½", OD 2"										
	EDD	EDD	DN 65, DN 80, OD 2 ½", OD 3"										
	EDD*	EDD*	DN 100, OD 4"										
9	**Valve seat version (upper housing/lower housing)**		Housing combination										
			K	V	P	O	W	Y	X	Z	U	M	N	G
	L0	Loose seat ring/Clamp connection	√	√	√	√	√	√	√	√	√	√	√	√
	V0	Fixed vertical port	√	√	√	√								
10	**Seal material in contact with the product**												
	1	EPDM (FDA)											
	2	FKM (FDA)											
	3	HNBR (FDA)											
11	**Surface quality of the housing**												
	2	Inside $R_a \leq 0.8$ µm, outside matte blasted											
12	**Connection fittings**												
	N	Welding end											
13	**Accessories**												
	/52	Adhesive ID tag											
+													
14–19	**Air connection/Control and feedback system**												
	00000M	Metric for air hose Ø 6/4 mm											
	00000Z	Inch for air hose Ø OD ¼" (6.35/4.35 mm)											
	XXXXX	Order code for different control and feedback systems see section 10											

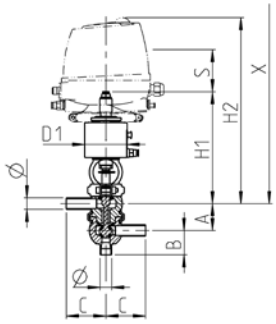
* with air support

The code is composed as following, depending on the chosen configuration:

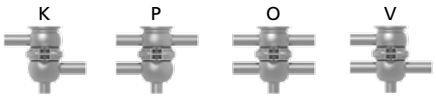
Position	1	2	3		4/5		6	7		8		9		10	11	12	13		14 to 19					
Code	W		/ECO	-	/	-	E		-		-		-		2	N	/52	+						

For order codes differing from the standard version, please refer to section 8 (options).

Technical data of the standard version	
Recommended flow direction	Product-merging
Material in contact with the product	1.4404/AISI 316 L
Material not in contact with the product	1.4301/AISI 304
Seal material in contact with the product	EPDM, FKM, HNBR
Ambient temperature	0 to 45 °C
Air supply pressure	5 bar (73 psi)
Product pressure	10 bar (145 psi)
Surface in contact with the product	$R_a \leq 0.8$ µm
External housing surface	Matte blasted
Control and feedback system	Connection 0 (without control top)
Actuator type	Pneumatic actuator air/spring
Connection fittings	Welding end
Identification	Adhesive ID tag
Valve seat version	Fixed vertical port
Certificates	CE FDA



	Pipe	Housing			Actuator	Dimensions			Valve	
Nominal width	Ø [mm]	A [mm]	B [mm]	C [mm]	D1 [mm]	H1 [mm]	H2 [mm]	Extension X [mm]	Stroke S [mm]	Weight [kg]
DN 10	13 × 1.50	44	40	65	70	166	295	345	6	5
DN 15	19 × 1.50	47	40	65	70	169	298	348	6	5

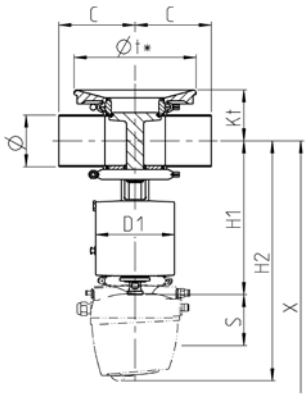
Position	Description of the order code for the standard version		
1	**Valve type**		
	W	ECOVENT® divert valve	
2	**Housing combinations**		
	 K P O V		
3	**Supplement to the valve type**		
	/ECO		
4/5	**Nominal width (upper housing / lower housing)**		
	DN 10		
	DN 15		
6	**Actuator type**		
	E	Air/Spring	
7	**Non-actuated position**		
	Z	Spring-to-close (NC)	
	A	Spring-to-open (NO)	
8	**Standard configuration with 5 bar air supply pressure for 10 bar product pressure (higher pressures on request)**		
	Actuator (spring-to-close)	**Actuator (spring-to-open)**	
	60/4	60/4	
9	**Valve seat version (upper housing / lower housing)**		
	V0	Fixed vertical port	
10	**Seal material in contact with the product**		
	1	EPDM (FDA)	
	2	FKM (FDA)	
	3	HNBR (FDA)	
11	**Surface quality of the housing**		
	2	Inside $R_a \leq 0.8$ µm, outside matte blasted	
12	**Connection fittings**		
	N	Welding end	
13	**Accessories**		
	/52	Adhesive ID tag	
+			
14–19	**Air connection / Control and feedback system**		
	00000M	Metric for air hose Ø 6/4 mm	
	00000Z	Inch for air hose Ø OD ¼" (6.35/4.35 mm)	
	XXXXX	Order code for different control and feedback systems see section 10	

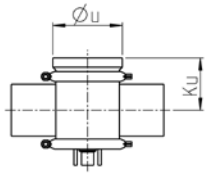
The code is composed as following, depending on the chosen configuration:

Position	1	2	3		4/5		6	7		8		9		10	11	12	13		14 to 19					
Code	W		/ECO	-	/	-	E		-	60/4	-	V0	-		2	N	/52	+						

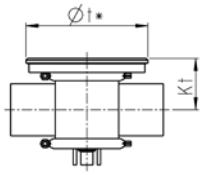
For order codes differing from the standard version, please refer to section 8 (options).

Technical data of the standard version	
Recommended flow direction	Filling, emptying
Material in contact with the product	1.4404/AISI 316 L
Material not in contact with the product	1.4301/AISI 304
Seal material in contact with the product	EPDM, FKM, HNBR
Ambient temperature	0 to 45 °C
Air supply pressure	6 bar (87 psi)
Product pressure	5 bar (73 psi)
Surface in contact with the product	$R_a \leq 0.8$ µm
External housing surface	Matte blasted
Control and feedback system	Connection 0 (without control top)
Actuator type	Pneumatic actuator air/spring
Connection fittings	Welding end
Identification	Adhesive ID tag
Valve seat version	Clamped seat ring
Certificates	CE FDA





Housing connection U



Housing connection T

	Pipe	Housing	Actuator	Dimensions			Housing connection U		Housing connection T		Valve	
Nominal width	Ø [mm]	C [mm]	D1 [mm]	H1 [mm]	H2 [mm]	Extension X [mm]	Ku [mm]	Øu [mm]	Kt [mm]	Øt* [mm]	Stroke [mm]	Weight [kg]
DN 25	29.0 × 1.50	90	99	209	338	423	50.0	70 × 2.0	49.0	145	16.0	6
DN 40	41.0 × 1.50	90	110	243	372	457	56.0	85 × 2.0	55.5	165	20.0	7
DN 50	53.0 × 1.50	90	110	249	378	463	62.0	85 × 2.0	61.5	165	28.0	8
DN 65	70.0 × 2.00	125	135	257	386	531	78.0	114 × 2.5	76.0	200	28.0	12
DN 80	85.0 × 2.00	125	135	264	393	538	85.5	114 × 2.5	83.5	200	28.0	12
DN 100	104.0 × 2.00	125	170	274	403	548	95.0	154 × 2.0	92.5	225	28.0	17
OD 1"	25.4 × 1.65	90	99	207	336	421	48.0	70 × 2.0	47.0	145	12.0	6
OD 1 ½"	38.1 × 1.65	90	110	241	370	455	54.5	85 × 2.0	54.0	165	17.0	7
OD 2"	50.8 × 1.65	90	110	248	377	462	60.8	85 × 2.0	60.3	165	25.5	7
OD 2 ½"	63.5 × 1.65	125	135	254	383	528	75.0	114 × 2.5	73.0	200	22.0	11
OD 3"	76.2 × 1.65	125	135	260	389	534	81.5	114 × 2.5	79.5	200	20.0	12
OD 4"	101.6 × 2.11	125	170	273	402	547	93.8	154 × 2.0	91.3	225	25.5	17

* The maximum wall thickness of the tank can be 8 mm.

Position	Description of the order code for the standard version		
1	**Valve type**		
	N	ECOVENT® single-seat bottom valve	
2	**Housing combinations**		
	F* 	D* 	
3	**Supplement to the valve type**		
	/ECO		
4/5	**Nominal width (upper housing/lower housing)**		
	DN 25	OD 1"	
	DN 40	OD 1 ½"	
	DN 50	OD 2"	
	DN 65	OD 2 ½"	
	DN 80	OD 3"	
	DN 100	OD 4"	
6	**Actuator type**		
	E	Air/Spring	
7	**Non-actuated position**		
	Z	Spring-to-close (NC)	
	A	Spring-to-open (NO)	
8	**Standard configuration with 6 bar air supply pressure for 5 bar product pressure (higher pressures on request)**		
	Actuator (spring-to-close)	**Actuator (spring-to-open)**	**For nominal widths**
	EAA	EAA	DN 25, OD 1"
	EBB	EBA	DN 40, DN 50, OD 1 ½", OD 2"
	ECD	ECB	DN 65, DN 80, OD 2 ½", OD 3"
	EDF	EDD	DN 100, OD 4"
9	**Valve seat version (upper housing/lower housing)**		
	L0	Loose seat ring/Clamp connection	
10	**Seal material in contact with the product**		
	1	EPDM (FDA)	
	2	FKM (FDA)	
	3	HNBR (FDA)	
11	**Surface quality of the housing**		
	2	Inside $R_a \leq 0.8$ µm, outside matte blasted	
12	**Connection fittings**		
	N	Welding end	
13	**Accessories**		
	/T	Housing connection T (up to DN 100, OD 4")	
	/U	Housing connection U	
	/52	Adhesive ID tag	
+			
14–19	**Air connection/Control and feedback system**		
	00000M	Metric for air hose Ø 6/4 mm	
	00000Z	Inch for air hose Ø OD ¼" (6.35/4.35 mm)	
	XXXXX	Order code for different control and feedback systems see section 10	

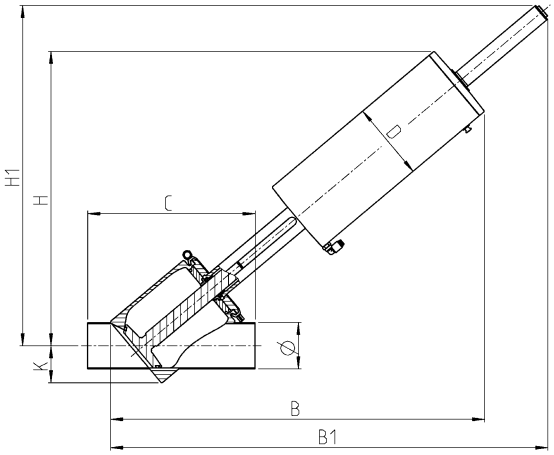
* Optionally with housing connection flange U or housing connection flange T (see position 13)

The code is composed as following, depending on the chosen configuration:

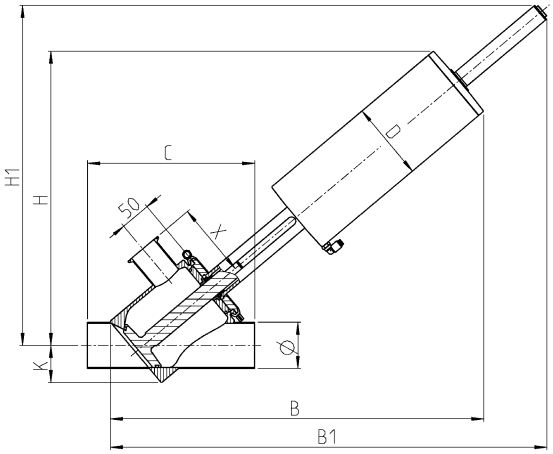
Position	1	2	3		4/5		6	7		8		9		10	11	12	13			14 to 19						
Code	N		/ECO	-	/	-	E		-		-	L0	-		2	N		/52	+							

For order codes differing from the standard version, please refer to section 8 (options).

Technical data of standard version	
Material in contact with the product	1.4404/AISI 316 L
Material not in contact with the product	1.4301/AISI 304
Seal material in contact with the product	EPDM, FKM, HNBR
Ambient temperature	0 to 45 °C
Air supply pressure	6 bar (87 psi)
Surface in contact with the product	$R_a \leq 0{,}8$ µm
External housing surface	Matte blasted
Control and feedback system	Connection 0 (without control top)
Actuator type	Pneumatic actuator air / spring
Connection fittings	Welding end
Identification	Adhesive ID tag
Valve seat version	Welded seat ring
Certificates	CE FDA



Angle Valve



Angle Valve with CIP Connection

	Pipe	Housing			Actuator	Dimensions				Valve	
Nominal width	Ø [mm]	B [mm]	B1 [mm]	C [mm]	D1 [mm]	H [mm]	H1 [mm]	K [mm]	X* [mm]	Stroke S [mm]	Weight [kg]
OD 2 ½"	63.5 × 1.65	491	586	250	129	454	549	50.3	123	67	18.5
OD 3"	76.2 × 1.65	618	727	275	129	489	568	61.5	123	120	19.5
OD 4"	101.6 × 2.11	733	829	360	170	576	641	79.5	143	155	40.0

* Dimension is valid for Angle Valve with CIP Connection

Position	Description of the oder code for the standard version		
1	**Valve type**		
	N	ECOVENT® Angle valve	
2	**Housing combination**		
	I 		
3	**Supplement to the valve type**		
	/ECO		
4/5	**Nominal width (upper housing / lower housing)**		
	OD 2 ½"		
	OD 3"		
	OD 4"		
6	**Actuator type**		
	E	Air/Spring	
7	**Non-actuated position**		
	Z	Spring-to-close (NC)	
	A	Spring-to-open (NO)	
8	**Standard configuration with 6 bar air supply pressure for 5 bar product pressure (higher pressures on request)**		
	Actuator (spring-to-close)	**Actuator (spring-to-open)**	**For nominal widths**
	ECD/12	ECD/12	OD 2 ½"
	ECD/12	ECD/12	OD 3"
	EDF/16	EDF/16	OD 4"
9	**Valve seat version (upper housing / lower housing)**		
	V0	Fixed port	
10	**Seal material in contact with the product**		
	1	EPDM (FDA)	
	2	FKM (FDA)	
	3	HNBR (FDA)	
11	**Surface quality of the housing**		
	2	Inside $R_a \leq 0{,}8$ µm, outside matte blasted	
12	**Connection fittings**		
	N	Welding end	
13	**Accessories**		Housing combination
	/33	With CIP Housing	
	/52	Adhesive ID tag	
+			
14–19	**Air connection**		
	0 0M	Metric for air hose Ø 6/4 mm	
	00000Z	Inch for air hose Ø OD 1/4" (6.35/4.35 mm)	

The code is composed as following, depending on the chosen configuration:

Position	1	2	3		4/5		6	7		8		9		10	11	12	13		14 to 19					
Code	N	I	/ECO	-	/	-	E		-		-	V0	-		2	N		+	0	0	0	0	0	

For order codes differing from the standard version, please refer to section 8 (options).

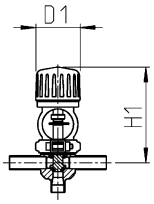
Typical application and description

For manual operation of ECOVENT® valves.

This manual actuator is designed as a handwheel for the nominal widths DN 10 and DN 15.

Available nominal widths		
Metric	DN	10–15

Available valve types	
Single-seat valves with shut-off function	N_ECO small
Single-seat valves with divert function	W_ECO small
Mixproof valves with shut-off function	–
Mixproof valves with shut-off function and seat lifting	–
Mixproof valves with divert function	–
Tank bottom valves	–



Technical data	
Material	PPH

	Type	Dimensions		
Nominal width	No. 8 in order code	D1 [mm]	H [mm]	Weight [kg]
DN 10	H	60	126	0.7
DN 15	H	60	129	0.7

Incorporation of the option in the order code and example

Position	Description of the order code for options
6	**Actuator type**
	H Manual actuator

Position	1	2	3		4/5		6	7		8		9		10	11	12	13		14 to 19					
Code	N	L	/ECO	-	DN 10/DN 10	-	***H***	Z	-	–	-	V0	-	1	2	N	/52	+	0	0	0	0	0	0

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