

# Mixproof Butterfly Valve



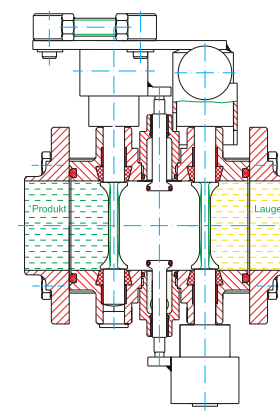
**Very small leakage space**  
**Pressure-surge-proof due to mechanical linking**  
**Self-draining at gradients of up to 1 in 20**

A Company of the NEUMO-EHRENBERG-GROUP

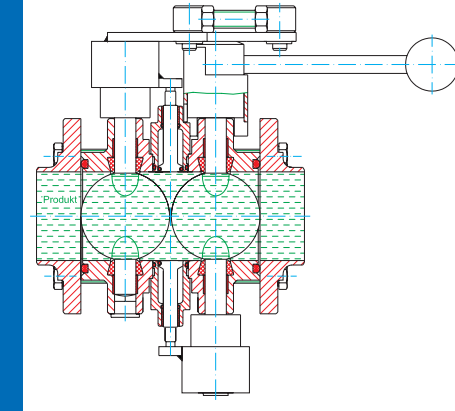
## Mixproof Butterfly Valve

### The Mixproof Butterfly Valve

is designed to be used in applications where mixing of liquids must be precluded. Double sealing guarantees absolute operational reliability. Field experience shows that any two gaskets/seals or their seats will never fail at a time. This principle has been taken into account in designing the AWH Mixproof Butterfly Valve.



When in home position the two butterfly valves are closed and the leakage valves are fully open.  
 The opened leakage valves enable a check to be made to ensure that the butterfly valves seal properly. Leakage as may occur can be discharged/drained into the atmosphere at zero pressure, and mixing of products is ruled out.  
 When the leakage valves are connected to an existing cleaning circuit the leakage space can be cleaned by means of SIP or CIP liquid.



On opening of the butterfly valves the leakage valves are closed first, and it is only then that the product valves will open.  
 This functional sequence permits flushing losses to be minimised.

### As both butterfly valves

are controlled by a single actuator, even though each butterfly valve blocks open area individually, it is definitely ensured that both fluids are physically isolated from each other. Positive mechanical linking is provided for all the individual valves, so both a reliable control performance and the greatest possible safety of function are guaranteed.

Use of standardised components from our butterfly-valve range permits great variability with respect to connections, gasket or sealing materials, and modifications. Moreover, it allows spare-parts stockkeeping to be minimised, while ensuring that parts will be available at short notice. These valves come with the well-known stem bushings on the valve disk. The leakage valve can be operated by an actuator or manually.

### Specifications

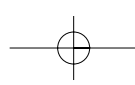
Valve-body surface:	Inside and outside precision-machined	Material:	Parts in contact with product: 1.4404 Parts not in contact with product: 1.4301
Max. allowable pressure:	10 bar sealing against 10 bar in each case	Leakage:	Leakage rate 1 to DIN 3230
Operating temperature:	Max. temperature is a function of the particular gasket or seal material	Connections:	Weld/Weld for pipes to DIN 11850; Connection to DIN 11864; Thread to DIN 11851
Gasket/Seal materials:	EPDM, VMQ, FPM or HNBR	Leakage connection:	G 3/8" / D: 10 mm

### The $K_V$ value

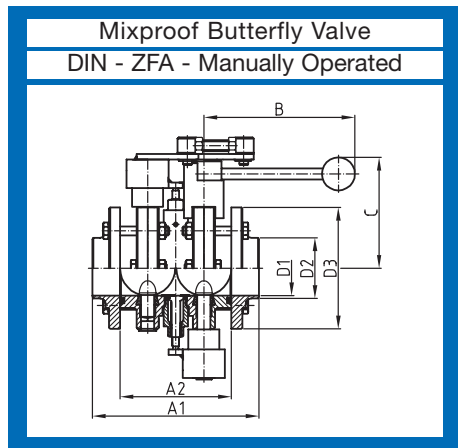
describes the flowrate ( in  $m^3 / hr$  ) of water at 5-30°C at a pressure drop (=  $\Delta p$  ) of 1 bar.

DN	25	32	40	50	65	80	100
$K_V$	14	29	50	120	262	380	626

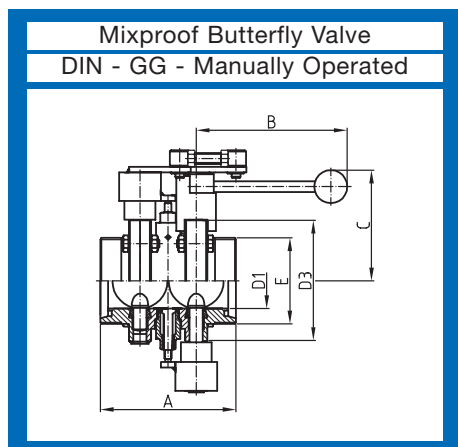
where  $\Delta p = p_1 - p_2$  at:  $p_1$  = Pressure at valve inlet  
 $p_2$  = Pressure at valve outlet  
 and with the disk 90° open



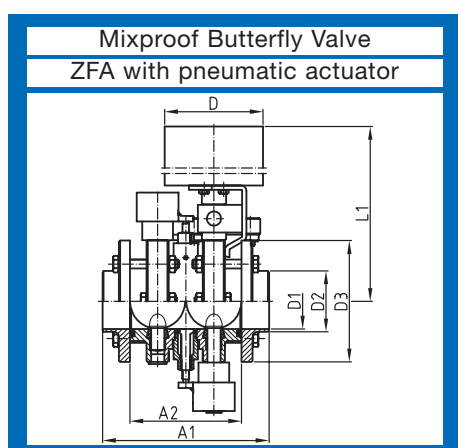
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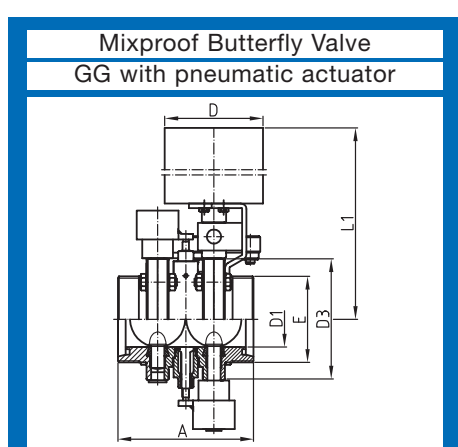
DN	A1	A2	B	C	D1	D2	D3	Wt.[kg]
25	138	98	107	90	26	31	87	4.51
32	138	98	107	92	32	37	92	4.82
40	148	98	137	94	38	43	97	5.11
50	151	101	137	101	50	55	110	6.01
65	167	117	137	110	66	72	127	7.72
80	194	134	167	123	81	87	142	11.20
100	194	134	167	134	100	106	162	13.50



DN	A	B	C	D1	D3	E	Wt.[kg]
25	112	107	90	26	87	52 x 1/6"	3.85
32	112	107	92	32	92	58 x 1/6"	4.04
40	120	137	94	38	97	65 x 1/6"	4.39
50	123	137	101	50	110	78 x 1/6"	5.15
65	143	137	110	66	127	95 x 1/6"	6.76
80	158	167	123	81	142	110 x 1/4"	9.10
100	162	167	134	100	162	130 x 1/4"	11.18



DN	A1	A2	D1	D2	D3	L1	D	Wt.[kg]
25	138	98	26	31	87	253	85	7.53
32	138	98	32	37	92	255	85	7.94
40	148	98	38	43	97	258	85	8.23
50	151	101	50	55	110	264	85	9.14
65	167	117	66	72	127	315	104	12.80
80	194	134	81	87	142	322	104	16.00
100	194	134	100	106	162	332	104	18.30



DN	A	D1	D3	E	L1	D	Wt.[kg]
25	112	26	87	52 x 1/6"	253	85	6.87
32	112	32	92	58 x 1/6"	255	85	7.16
40	120	38	97	65 x 1/6"	258	85	7.51
50	123	50	110	78 x 1/6"	264	85	8.28
65	143	66	127	95 x 1/6"	315	104	11.84
80	158	81	142	110 x 1/4"	322	104	13.90
100	162	100	162	130 x 1/4"	332	104	15.98



## Mixproof Butterfly Valve

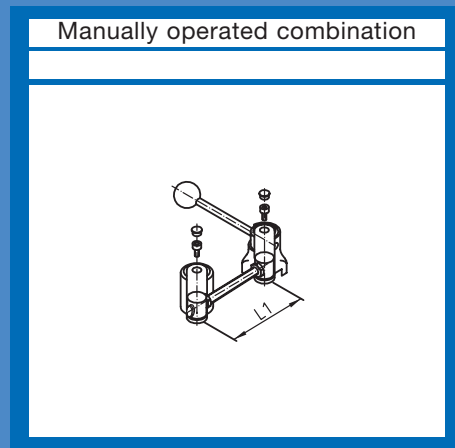
Manually operated		
1.4404 / EPDM		
DN	Price [EUR]	Product No.
25	866.18	340205012/1
32	880.69	340206012/1
40	887.54	340207012/1
50	915.10	340208012/1
65	977.73	340209012/1
80	1126.89	340210012/1
100	1201.63	340212012/1

Manually operated		
1.4404 / EPDM		
DN	Price [EUR]	Product No.
25	829.86	340305012/1
32	845.21	340306012/1
40	836.10	340307012/1
50	838.06	340308012/1
65	912.30	340309012/1
80	1053.93	340310012/1
100	1125.20	340312012/1

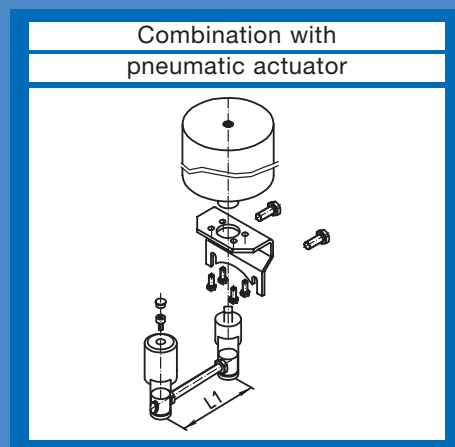
Pneumatic actuator Air/Spring		
1.4404 / EPDM		
DN	Price [EUR]	Product No.
25	1121.43	350205302/1
32	1135.95	350206302/1
40	1142.79	350207302/1
50	1170.35	350208302/1
65	1245.00	350209302/1
80	1394.17	350210302/1
100	1468.90	350212302/1

Pneumatic actuator Air/Spring		
1.4404 / EPDM		
DN	Price [EUR]	Product No.
25	1085.15	350305302/1
32	1100.47	350306302/1
40	1091.38	350307302/1
50	1093.32	350308302/1
65	1179.60	350309302/1
80	1321.23	350310302/1
100	1392.48	350312302/1

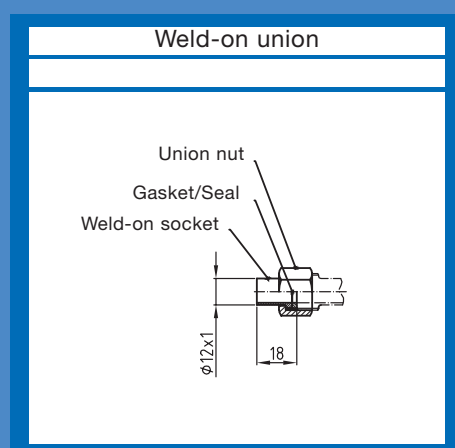
## Accessories and Spare Parts



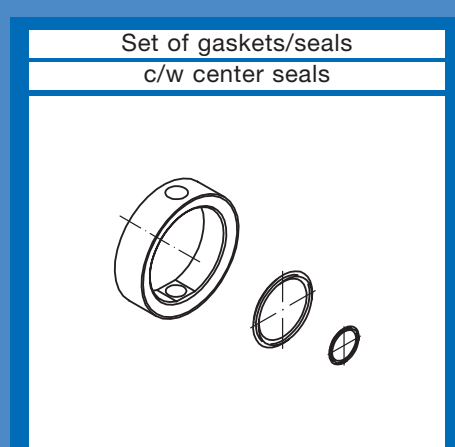
Manually operated combination			
1.4301			
DN	Price [EUR]	Product No.	L1
25	251.43	340206791	48
32	251.43	340206791	48
40	251.43	340207791	48
50	253.00	340208791	51
65	253.00	340209791	67
80	257.27	340212791	58
100	257.27	340212791	58



Combination with pneumatic actuator			
1.4301			
DN	Price [EUR]	Product No.	L1
25	488.86	350205791	48
32	488.86	350206791	48
40	488.86	350207791	48
50	488.86	350208791	51
65	500.89	350209791	67
80	500.89	350210791	58
100	500.89	350212791	58



Weld-on union		
1.4404 / EPDM		
DN	Price [EUR]	Product No.
25-100	11.00	340212002



Set of gaskets/seals c/w center seals		
EPDM		
DN	Price [EUR]	Product No.
25	23.96	340005091
32	27.28	340006091
40	32.70	340007091
50	37.06	340008091
65	44.62	340009091
80	57.66	340010091
100	77.80	340012091

