

# DPX - DPAX butterfly valve technical description

## **DEFINOX butterfly valves**

have been made for several years using a choice of materials and machining conditions that guarantee top quality strength and surface finish.

The various seal types and numerous accessories make this **a highly versatile valve**.



● Manual DPX



● Automated DPAX

## ● Design

The DEFINOX butterfly valve consists of:

- a polished 316L stainless steel one-piece disc,
- o'ring,
- a food quality elastomer seal:

The seal is an essential component of the butterfly valve. It must be selected with care and adapted to the service conditions of the process. Identification of the seal is also necessary for maintenance operations. Butterfly valves are delivered as standard with an

EPDM seal, except for DN 125 which comes with a "FKM" fluorinated elastomer seal.

- Two symmetrical 316L stainless steel half-bodies,
- Securing screws (M6) in 304 stainless steel,
- An operating device.

These valves can be used at 140°C maximum, during a short time and valve open only (during sterilization for instance).

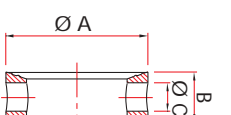
# DPX - DPAX butterfly valve technical description

ITDFX100 GB - REV 1 - MAY 2002

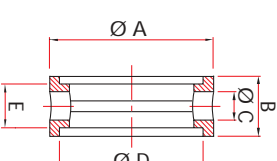
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## Seals for butterfly valves

Type 1



Type 2



MODEL	TYPE	DIMENSIONS													REFERENCES									
		DN			A					B					Food	Silicone	Food (FKM) fluorated Elastomer	Anti-acid (FKM) fluorated Elastomer	Clear food EPDM	Black food EPDM	Potash industrial EPDM			
		SMS	DIN	US																				
DPX	1	25	25	1"	41	23	13							7006513	7006528	7006612	7006573	7006695	7006663					
		32	32	1,5"	55	23	13						7000212	7006514	7006501	7006608	7006574	7006696	7006654					
		38	40		65	23	13						7000117	7006515	7006502	7006613	7006575	7006660	7006655					
		51	50	2"	65	23	13																	
		63		2,5"	75	27,4	13	65,5	20	7006581	7006582	7006583	7006614	7006600	7006697	7006656								
	2	76	65	3"	90	27,4	13	80,5	20	7006584	7006585	7006586	7006615	7006601	7006698	7006657								
			80		97	34,5	17	88,5	27	7006631	7006632	7006633	7006635	7006634	7006661	7006679								
		104	100	4"	117	34,5	17	108,5	27	7006636	7006637	7006638	7006640	7006639	7006662	7006658								
			125		150	35	17	137,5	25		7006555	7006556	7006618	7006579	7006699	7006659								
			150		175	35	17	159,5	25		7008546	7008543			7008544									
T old type	2		80		98	27	13	88,5	20		7006593	7006594	7006616	7006595										
		104	100	4"	118	27,4	13	108,5	20		7006597	7006598		7006599										
Old type (seal for pin disc)	1	63	65	2,5"	85	26	13						7000156	7006516	7006503	7006576								
		76	80	3"	105	33,5	17						7000190	7006517	7006504									
		104	100	4"	125	33,5	17						7000255	7006518	7006511	7008529								
			125		150	33,5	17							7006519	7006512									

# Manual DPX - automated DPAX butterfly valves dimensions



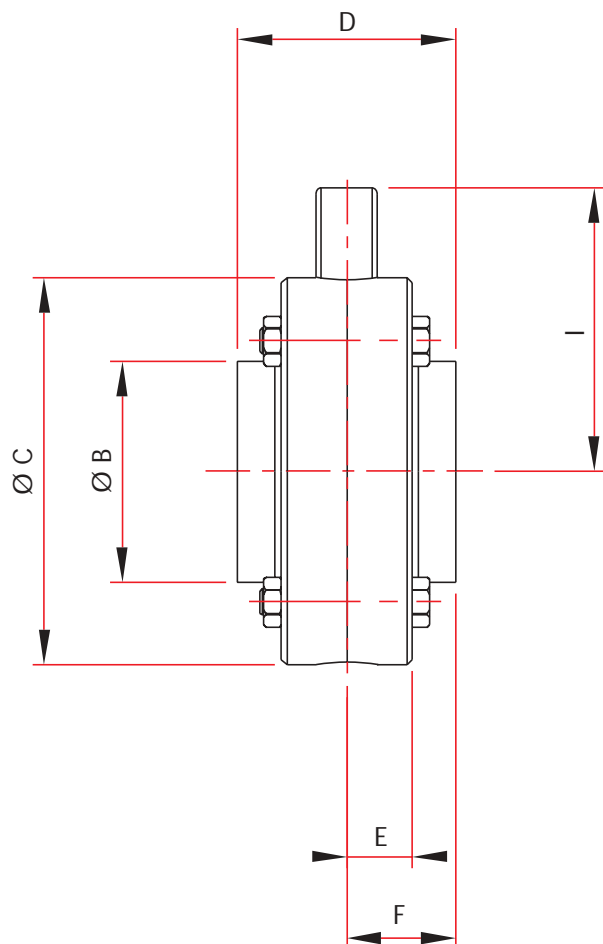
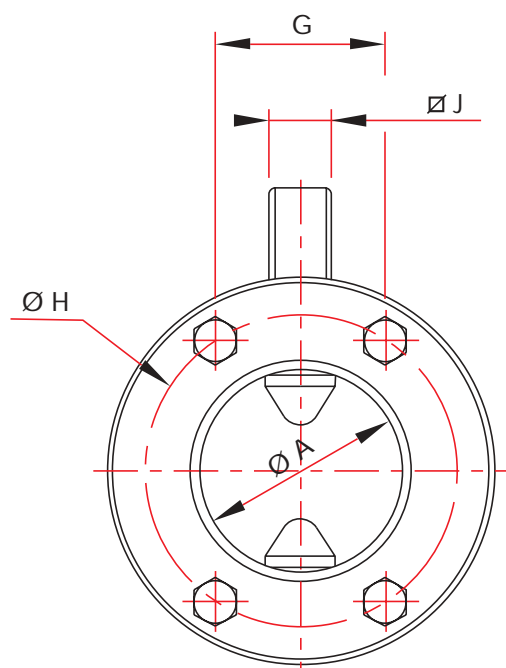
## DPX manual butterfly valve

The DPX1 disc stem has a driving square allowing various types of handle to be fitted.

The operating device is secured by a screw at the top of the disc.

Two sizes of square cover the entire range. Two handles of different length adapted to the operating torque correspond to these squares.

A device with a padlocking facility is optionally available.



## Manual DPX - automated DPAX butterfly valves dimensions

### DPX manual butterfly valve

SMS	DN		Ø A	Ø B	Ø C	D	E	F	G	Ø H	I	Ø J	Weight in kg
	DIN	US											
25			22,1	25,4	79	50	15	25	45	65	59,3	11	1
		1"	22,1	25,4	79	50	15	25	45	65	59,3	11	1
	25		26	29	79	50	15	25	45	65	59,3	11	1
32			29,6	32	79	50	15	25	45	65	59	11	0,9
	32		32	35	79	50	15	25	45	65	59	11	0,9
38			34,8	38,1	79	50	15	25	45	65	59	11	0,9
		1" 1/2	34,8	38,1	79	50	15	25	45	65	59	11	0,9
	40		38	41	79	50	15	25	45	65	59	11	0,9
		2"	47,5	50,8	89	50	15	25	45	75	64,5	11	1,2
51			47,5	50,8	89	50	15	25	45	75	64,5	11	1,2
	50		50	53	89	50	15	25	45	75	64,5	11	1,2
		2" 1/2	60,2	63,5	104	50	15	25	45	90	73	11	1,3
63			60,2	63,5	104	50	15	25	45	90	73	11	1,3
	65		66	70	119	50	15	25	45	105	81	11	1,7
76			72,9	76,2	119	50	15	25	45	105	81	11	1,6
		3"	72,9	76,2	119	50	15	25	45	105	81	11	1,6
	80		81	85	129	58	19	29	57	115	90,5	14	2,7
		4"	97,4	101,6	149	58	19	29	57	135	101,5	14	3,4
	100		100	104	149	58	19	29	57	135	101,5	14	3,4
104			100	104	149	58	19	29	57	135	101,5	14	3,4
	125		125	129	179	58	19	29	57	162	118	14	3,8
		6"	146,9	152,4	204	58	19	29	57	187	131	14	4,8
	150		150	154	204	58	19	29	57	187	131	14	4,8

## Manual DPX - automated DPAX butterfly valves dimensions



### Manual DPX butterfly valve with standard handle

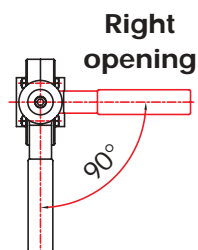
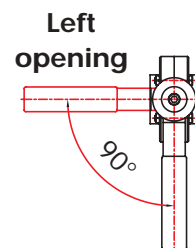
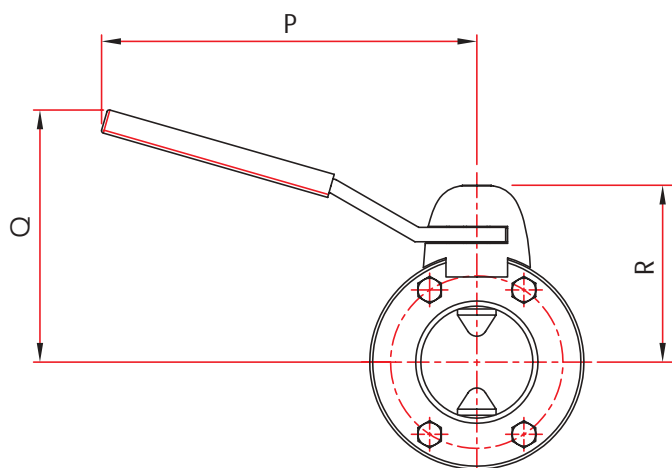
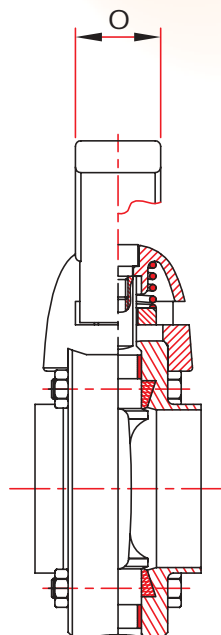


This quarter-turn handle is easy to fit and remove. It is equipped with three stop devices at the open, closed and 45° intermediate positions. Pressure must be applied to release it before turning.

Two symmetrical handles allow all opening configurations.

The standard manual operating device consists of:

- a 304 stainless steel handle with a square drive socket
- a plastic sleeve which can be customised with the user's name,
- a 304 stainless steel hub,
- a stainless steel return spring,
- a securing screw.



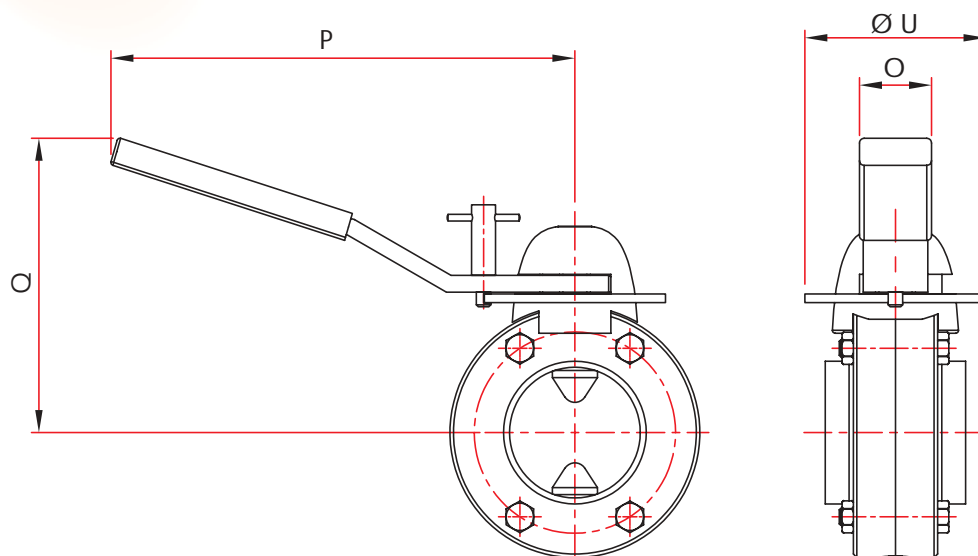
DN			O	P	Q	R	Weight in kg
SMS	DIN	US					
25	25	1"	30	165	100	70	1,4
32	32		30	165	100	70	1,3
38	40	1" 1/2	30	165	100	70	1,3
51	50	2"	30	165	105	75	1,6
63		2" 1/2	30	165	112	83	1,7
	65		30	165	120	91	2,1
76		3"	30	165	120	91	2
	80		35	260	145	101	3,4
104	100	4"	35	260	155	112	4,1
	125		35	260	170	128	4,5
	150	6"	35	260	190	140	5,6

## Manual DPX - automated DPAX butterfly valves dimensions

### Manual DPX butterfly valve with lock screw handle



This similar system to the standard handle has a lock screw to set an intermediate disc position. This handle is suited to settings that do not require a great degree of accuracy.



DN			O	P	Q	Ø U	Weight in kg
SMS	DIN	US					
25	25	1"	30	187	100	59	1,5
32	32		30	187	100	59	1,4
38	40	1" 1/2	30	187	100	59	1,4
51	50	2"	30	187	105	59	1,7
63		2" 1/2	30	187	112	59	1,8
	65		30	187	120	59	2,2
76		3"	30	187	120	59	2,1
	80		35	280	145	71	3,5
104	100	4"	35	280	155	71	4,2
	125		35	280	170	71	4,6
	150	6"	35	280	170	71	5,7

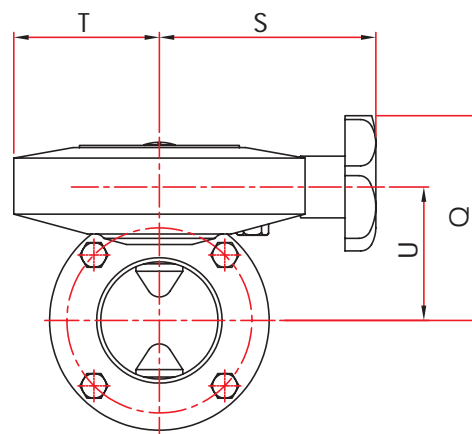
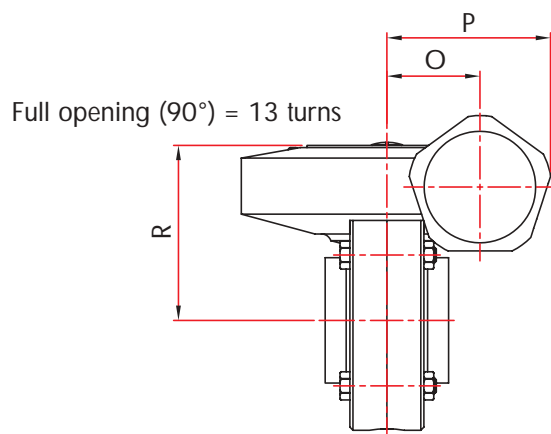
## Manual DPX - automated DPAX butterfly valves dimensions

### Manual DPX butterfly valve with micrometer handle and its different valve ends

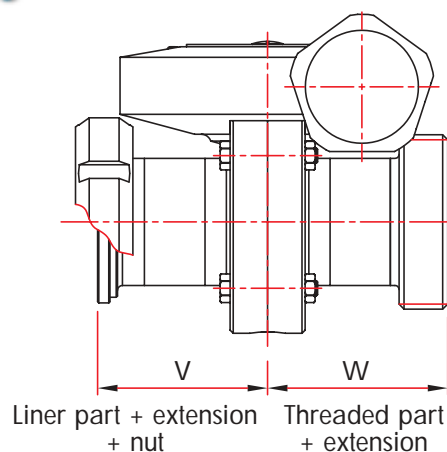
This system uses a wheel and worm screw device.

Fine opening and repeat positioning are possible via the graduated scale.

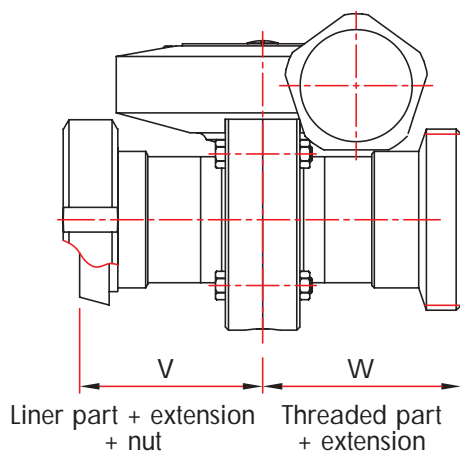
*Note: Unions cannot be welded directly to the half body of valves fitted with this handle.*



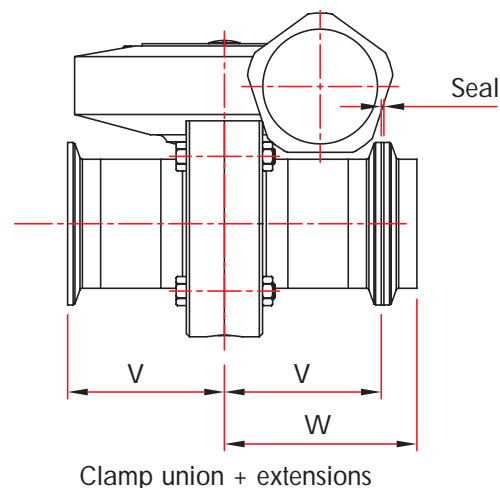
#### SMS end



#### DIN end



#### Clamp end



## Manual DPX - automated DPAX butterfly valves dimensions

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### Manual DPX butterfly valve with micrometer handle and its different valve ends

DN			O	P	Q	R	S	T	U	Weight in kg
SMS	DIN	US								
25			37,7	68	80	67	90	59	50	1,8
		1"	37,7	68	80	67	90	59	50	1,8
			37,7	68	80	67	90	59	50	1,8
32	25		37,7	68	80	67	90	59	50	1,7
			37,7	68	80	67	90	59	50	1,7
	32		37,7	68	80	67	90	59	50	1,7
38			37,7	68	80	67	90	59	50	1,7
		1" 1/2	37,7	68	80	67	90	59	50	1,7
	40		37,7	68	80	67	90	59	50	1,7
		2"	37,7	68	85	72	90	59	55	2
51			37,7	68	85	72	90	59	55	2
	50		37,7	68	85	72	90	59	55	2
		2" 1/2	37,7	68	93	80	90	59	63	2,1
63			37,7	68	93	80	90	59	63	2,1
	65		37,7	68	100	87	90	59	70	2,5
			37,7	68	100	87	90	59	70	2,4
76			37,7	68	100	87	90	59	70	2,4
		3"	37,7	68	100	87	90	59	70	2,4
	80		37,7	68	105	92	90	59	75	3,5
		4"	37,7	68	115	102	90	59	85	4,2
	100		37,7	68	115	102	90	59	85	4,2
104			37,7	68	115	102	90	59	85	4,2
	125		37,7	68	130	117	90	59	100	4,6

DN	V	W
SMS		
25	59	63
38	63	67
51	68	72
63	76	81
76	86	91
104	89	94
DIN		
25	66	73
32	69	76
40	70	77
50	77	84
65	86	94
80	97	104
100	108	118
125	98	110
Clamp		
1"	57	71,5
1" 1/2	57	71,5
2"	62	76,5
2" 1/2	67	81,5
3"	77	91,5
4"	80	97,5



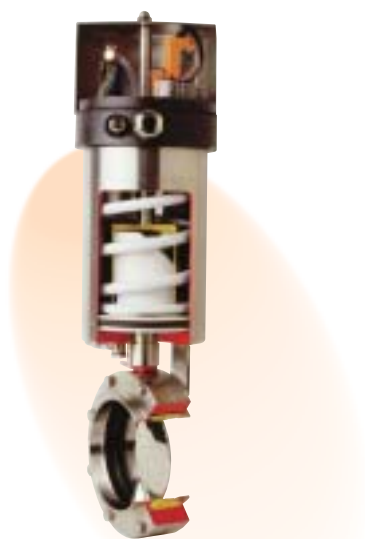
# Manual DPX - automated DPAX butterfly valves dimensions



## Automated DPAX butterfly valve

The butterfly valve can easily be automated. A vertical cylindrical pneumatic actuator replaces the standard manual handle. Three sizes of actuator cover the entire range:

- DN 25 to DN 76  
(diameter: 89 mm)
- DN 80 to DN 125  
(diameter: 115 mm)
- DN 150  
(diameter: 114 mm)



A red plastic locator showing the position of the valve is inserted between the square of the disc and the end of the actuator shaft. It indicates the NO (Normally Open) or NC (Normally Closed) position when the air supply to the valve is shut off.

The actuator also has a rising stem to provide remote information on the position of the valve if it is equipped with a signal-back unit (see signal-back section).

It is designed for single or double-acting operation with filtered air within a pressure range of 4 to 8 bar.

### Mounting on the valve and putting into service:

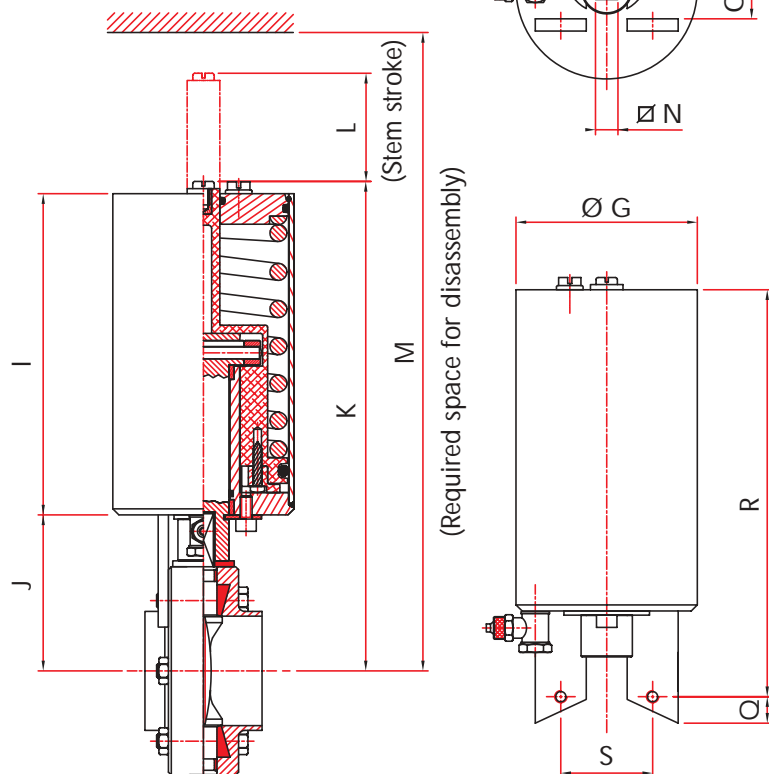
The butterfly valve can quickly be automated with this actuator. The screws securing the half-bodies hold the actuator in place by its threaded lugs which ensures good centring and disc and drive shaft alignment.

It is equipped as standard with adjustable air fittings for Rilsan 4/6 hoses.

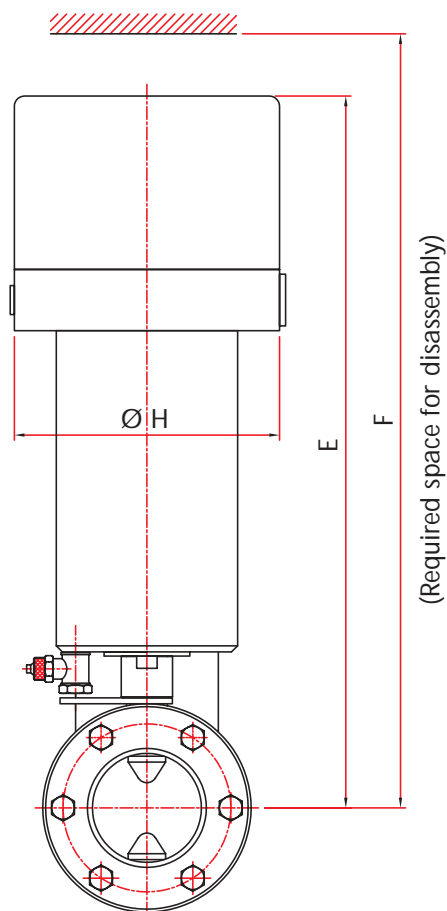
This actuator consists mainly of the following parts:

- a 304L stainless steel outer body,
- a 304L stainless steel drive shaft,
- a plastic helical cam,
- a spring with an anti-corrosion coating,
- a cover held by a stainless steel retaining ring.

### Without control unit



### With control unit



Manual DPX - automated DPAX  
butterfly valves dimensions

Automated DPAX butterfly valve

DN			E	F	Ø G	Ø H	I	J	K	L	M	Ø N	O	Ø P	Q	R	S	Weight in kg*
SMS	DIN	US																
25			339	369	89	130	157	67	231	53	304	11	15	25	13	200	45	4,6
		1"	339	369	89	130	157	67	231	53	304	11	15	25	13	200	45	4,6
	25		339	369	89	130	157	67	231	53	304	11	15	25	13	200	45	4,6
32			339	369	89	130	157	67	231	53	304	11	15	25	13	200	45	4,5
	32		339	369	89	130	157	67	231	53	304	11	15	25	13	200	45	4,5
38			339	369	89	130	157	67	231	53	304	11	15	25	13	200	45	4,5
		1" 1/2	339	369	89	130	157	67	231	53	304	11	15	25	13	200	45	4,5
	40		339	369	89	130	157	67	231	53	304	11	15	25	13	200	45	4,5
51			345	375	89	130	157	73	237	53	310	11	15	25	13	200	45	4,8
		2"	345	375	89	130	157	73	237	53	310	11	15	25	13	200	45	4,8
	50		345	375	89	130	157	73	237	53	310	11	15	25	13	200	45	4,8
63			354	384	89	130	157	82	246	53	319	11	15	25	13	200	45	4,9
		2" 1/2	354	384	89	130	157	82	246	53	319	11	15	25	13	200	45	4,9
	65		363	393	89	130	157	91	255	53	328	11	15	25	13	200	45	5,3
76			363	393	89	130	157	91	255	53	328	11	15	25	13	200	45	5,2
		3"	363	393	89	130	157	91	255	53	328	11	15	25	13	200	45	5,2
	80		379	414	115	130	174	90	274	53	352	14	19	30	8	214	57	9,2
	100		390	425	115	130	174	101	285	53	363	14	19	30	8	214	57	9,9
		4"	390	425	115	130	174	101	285	53	363	14	19	30	8	214	57	9,9
104			390	425	115	130	174	101	285	53	363	14	19	30	8	214	57	9,9
	125		405	445	115	130	174	116	300	53	383	14	19	30	8	214	57	10,3
		6"	417	460	114	130	173	129	312	53	395	14	19	30	8	221	57	12
	150		417	460	114	130	173	129	312	53	395	14	19	30	8	221	57	12

\* Without  
control unit

# Manual DPX - automated DPAX butterfly valves working conditions



## Manual DPX butterfly valve

DN			Maximum working pressure (Bar)	Pressure drop (Kv)	Pressure drop (Cv)	Sealing pressure (Bar)
SMS	DIN	US				
25		1"	10	42	48,72	12
	25		10	49	56,84	12
32			10	61	70,76	12
	32		10	65	75,4	12
38		1"1/2	10	78	90,48	12
	40		10	85	98,6	12
51		2"	10	185	214,6	12
	50		10	190	220,4	12
63		2" 1/2	10	360	417,6	12
	65		10	395	458,2	12
76		3"	10	430	498,8	12
	80		6	552	640,32	8
104	100	4"	6	860	997,6	8
	125		4	1350	1566	6
	150	6"	4	1980	2297	6

FOR ALL DIAMETERS OF MANUAL DPX BUTTERFLY VALVE		
Maximum temperature: +120 °C	Minimum temperature: 0 °C	Temperature difference: 90 °C
Vacuum resistance: 0,4 cm <sup>3</sup> /s		

# Manual DPX - automated DPAX butterfly valves working conditions

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## Automated DPAX butterfly valve

DN			Maximum working pressure (Bar)	Pressure drop (Kv)	Pressure drop (Cv)	Sealing pressure (Bar)	Opening time (s)	Air consumption (NI)	Torque (da N/m)
SMS	DIN	US							
25	25	1"	10	42	48,72	12	3	2	2,8
			10	49	56,84	12	3	2	2,8
32	32		10	61	70,76	12	3	2	2,8
			10	65	75,4	12	3	2	2,8
38		1"1/2	10	78	90,48	12	3	2	2,8
	40		10	85	98,6	12	3	2	2,8
51		2"	10	185	214,6	12	3	2	2,8
	50		10	190	220,4	12	3	2	2,8
		2" 1/2	10	360	417,6	12	3	2	2,8
63			10	395	458,2	12	3	2	2,8
	65		10	430	498,8	12	3	2	2,8
76		3"	6	552	640,3	8	5	4	4
	80		6	860	997,6	8	5	4	4
104	100	4"	4	1350	1566	6	5	4	4
	125		4	1980	2297	6	6	4	4,5
	150	6"							

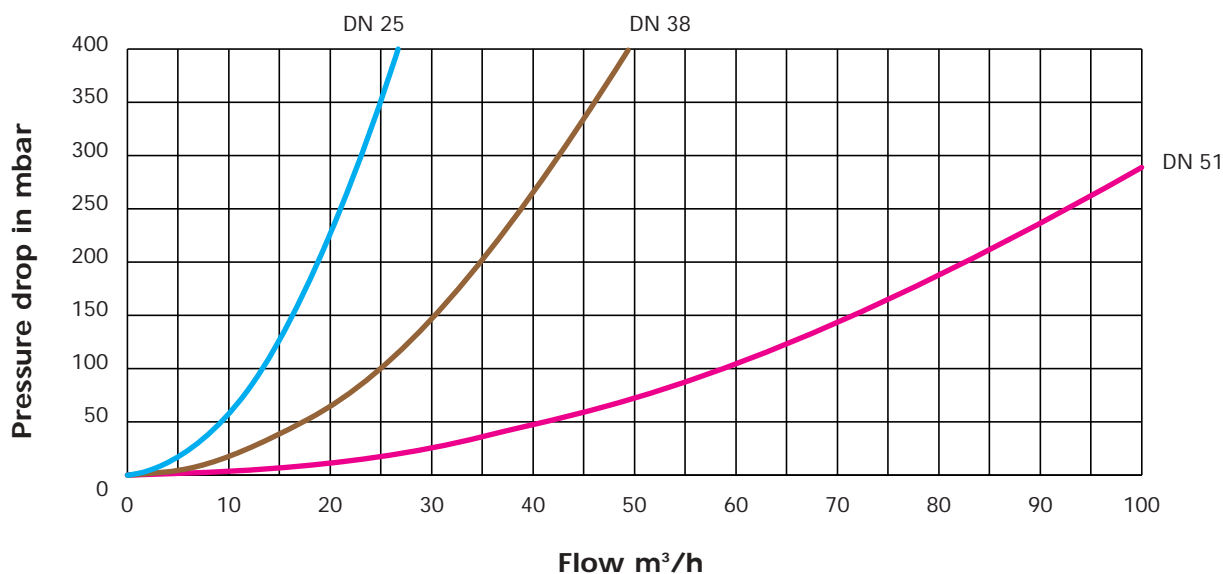
### FOR ALL DIAMETERS OF AUTOMATED DPAX BUTTERFLY VALVE

Maximum temperature: +120 °C	Minimum temperature: 0 °C	Temperature difference: 90 °C
Maximum supply pressure: 8 Bar	Minimum supply pressure: 4,5 Bar	Vacuum resistance: 0,4 cm³/s

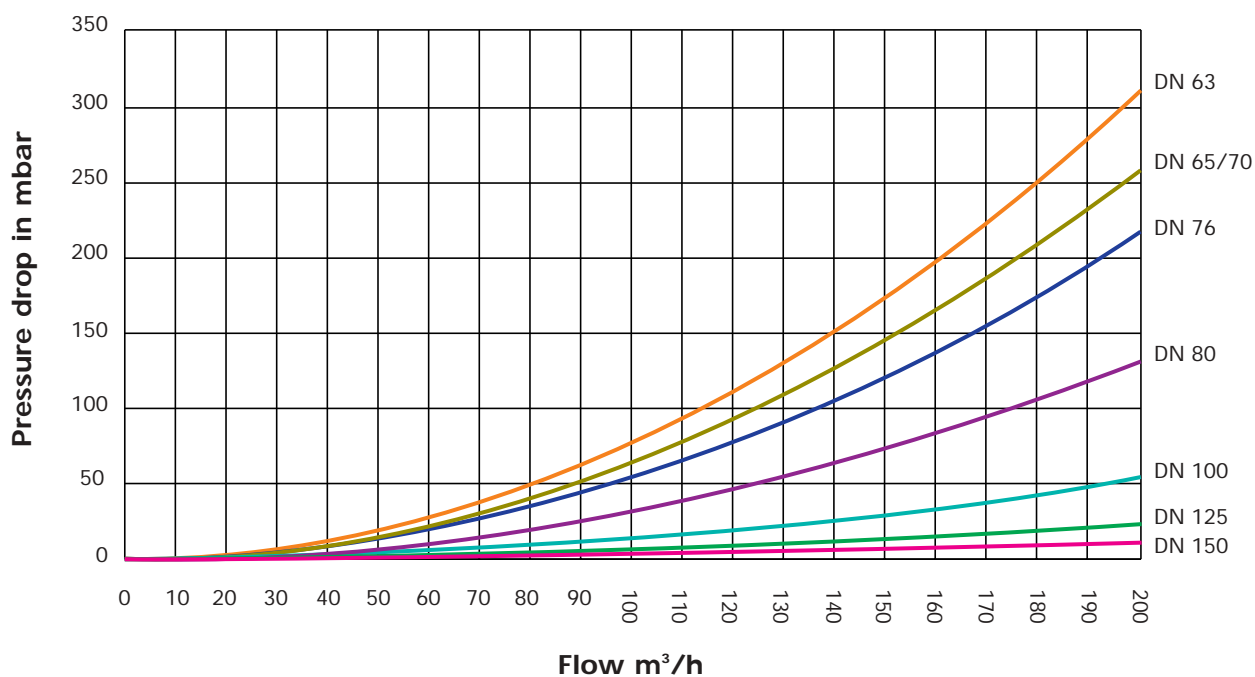
# Manual DPX - automated DPAX butterfly valves working conditions



## Pressure drop DPX butterfly valves DN 25 to DN 51



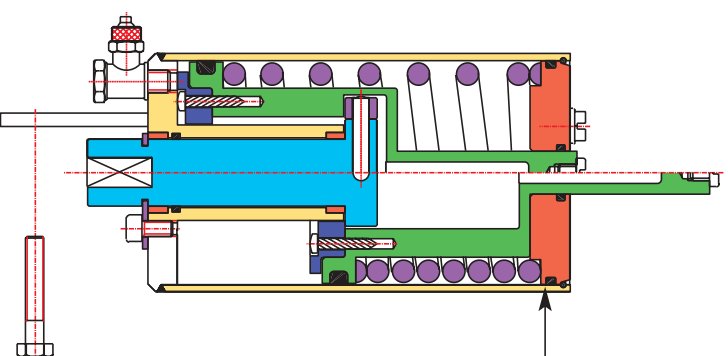
## Pressure drop DPX Butterfly Valves DN 63 to DN 150



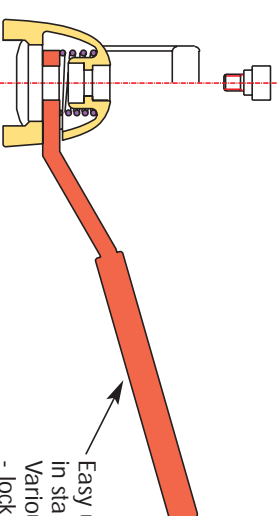


## Manual DPX - automated DPAX butterfly valves features

### DPAX

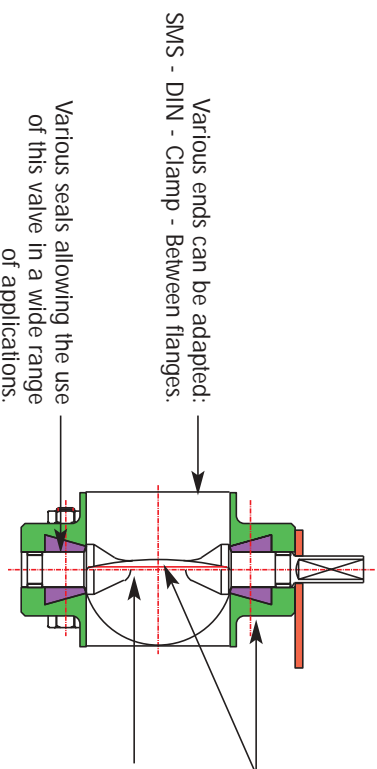


Pneumatic actuator  
easily modified.  
Normally Open "NO",  
Normally Closed "NC",  
Double acting "DE".



### DPX

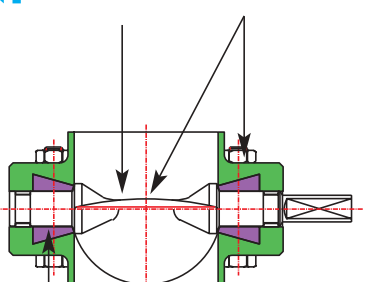
Easy use handle  
in stainless steel.  
Various manual handles:  
- lock screw handle,  
- micrometer handle,  
- left or right opening,  
- with detection.



Various ends can be adapted:  
SMS - DIN - Clamp - Between flanges.

Various seals allowing the use  
of this valve in a wide range  
of applications.

Valve body and stem in 316L  
stainless steel.  
Low pressure drop and retention  
free flow.



Various ends can be adapted:  
SMS - DIN - Clamp - Between flanges.  
Various seals allowing the use  
of this valve in a wide range  
of applications.



# DPX - DPAX

## butterfly valve ends

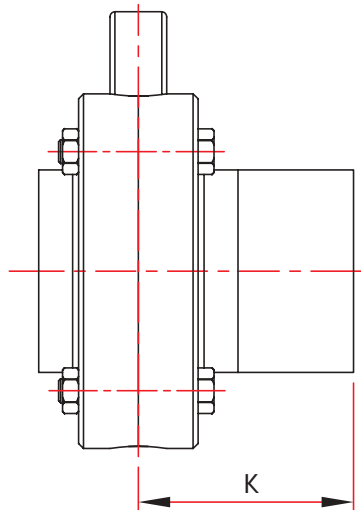
The DPX valve range splits into two distinct families using the same disc/seal pairing.

Butt weld valves whose half-bodies can be directly welded on with the usual standard fittings.

Valves fitted between supplied weld-on flanges.

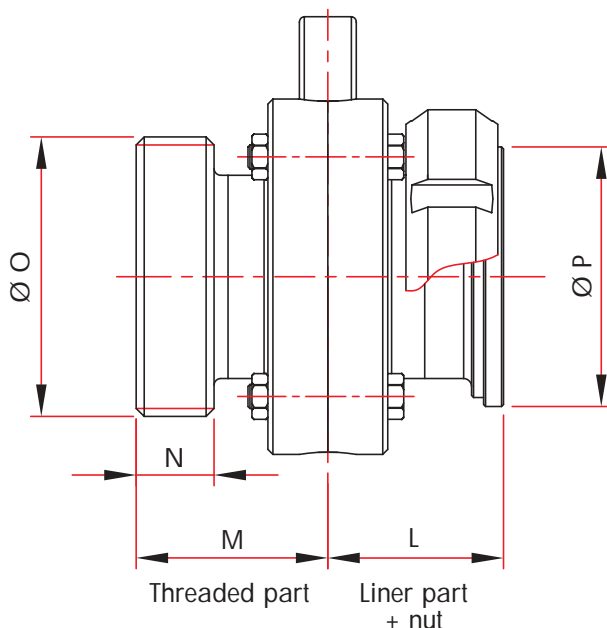
On request, we can weld your specific fittings (RJT, IDF, etc...).

### Long butt weld ends (SMS or Din)



DN		K
SMS	DIN	
25		45
	25	45
32		45
	32	45
38		45
	40	45
51		50
	50	50
63		55
	65	55
76		65
	80	60
104		65
	100	65
	125	65

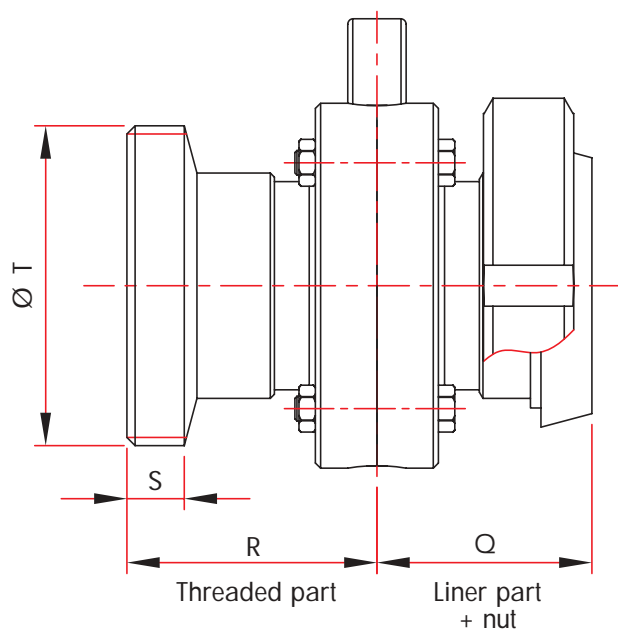
### SMS ends



DN	L	M	N	Ø O	Ø P
SMS					
25	40	44	11	40 x1/6"	35
38	44	48	15	60 x1/6"	55
51	44	48	15	70 x1/6"	65
63	47	52	18	85 x1/6"	80
76	47	52	18	98 x1/6"	93
104	54	59	21	125 x1/4"	118,5

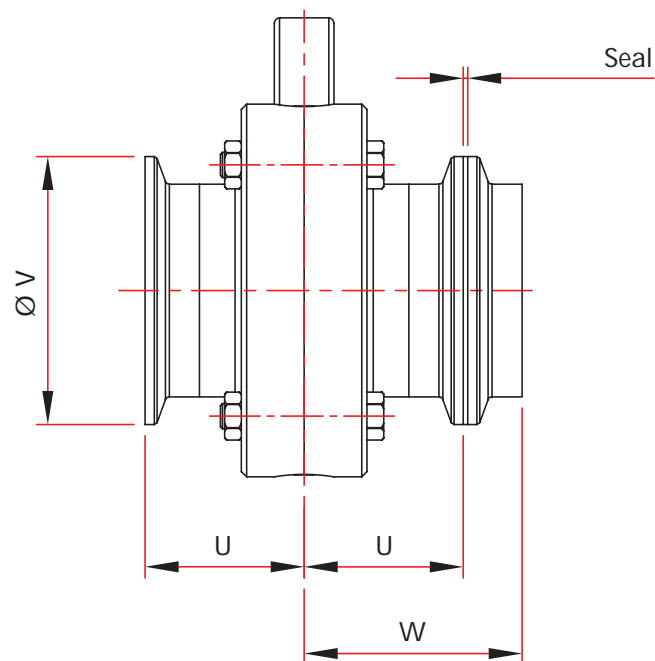
## DPX - DPAX butterfly valve ends

### Din ends



DN DIN	Q	R	S	Ø T
25	47	54	14	52 x1/6"
32	50	57	14	58 x1/6"
40	51	58	14	65 x1/6"
50	53	60	14	78 x1/6"
65	57	65	16	95 x1/6"
80	67	74	20	110 x1/4"
100	73	83	20	130 x1/4"
125	63	75	20	160 x1/4"

### Clamp ends



DN US	U	Ø V	W
1"	38	50,5	52,5
1,5"	38	50,5	52,5
2"	38	64	52,5
2,5"	38	77,5	52,5
3"	38	91	52,5
4"	45	119	62,5
100	54	119	71,5

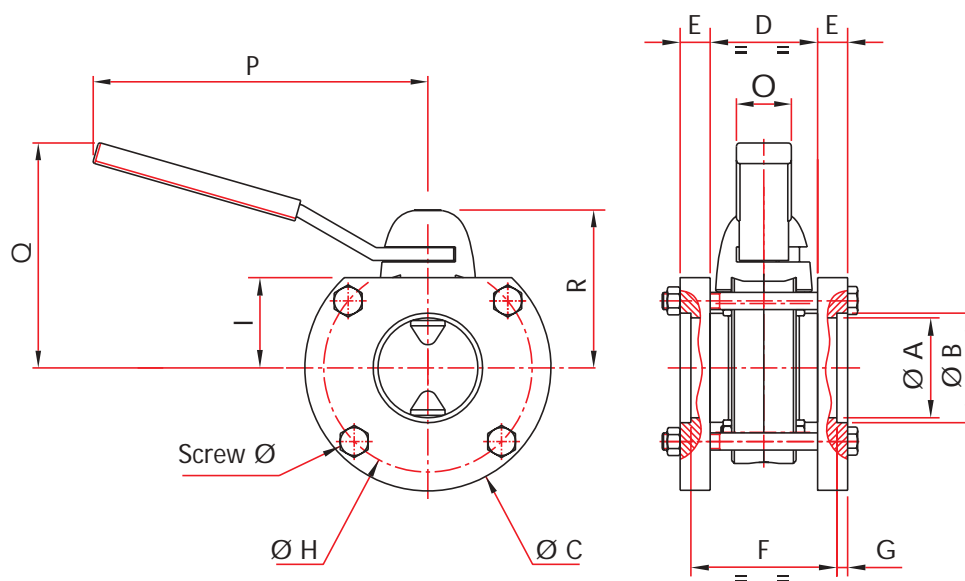


## DPX - DPAX butterfly valve ends

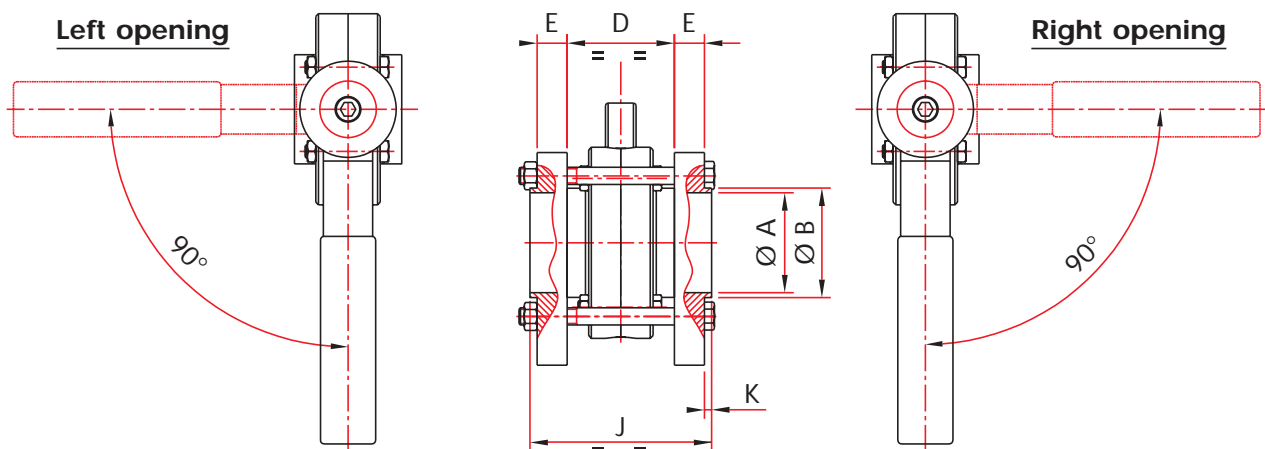


### Manual DPX butterfly valve between flanges

The seal between the butterfly valve and the connecting flanges is produced by O'rings on both bodies.



#### Option on request Lip flanges



## DPX - DPAX butterfly valve ends

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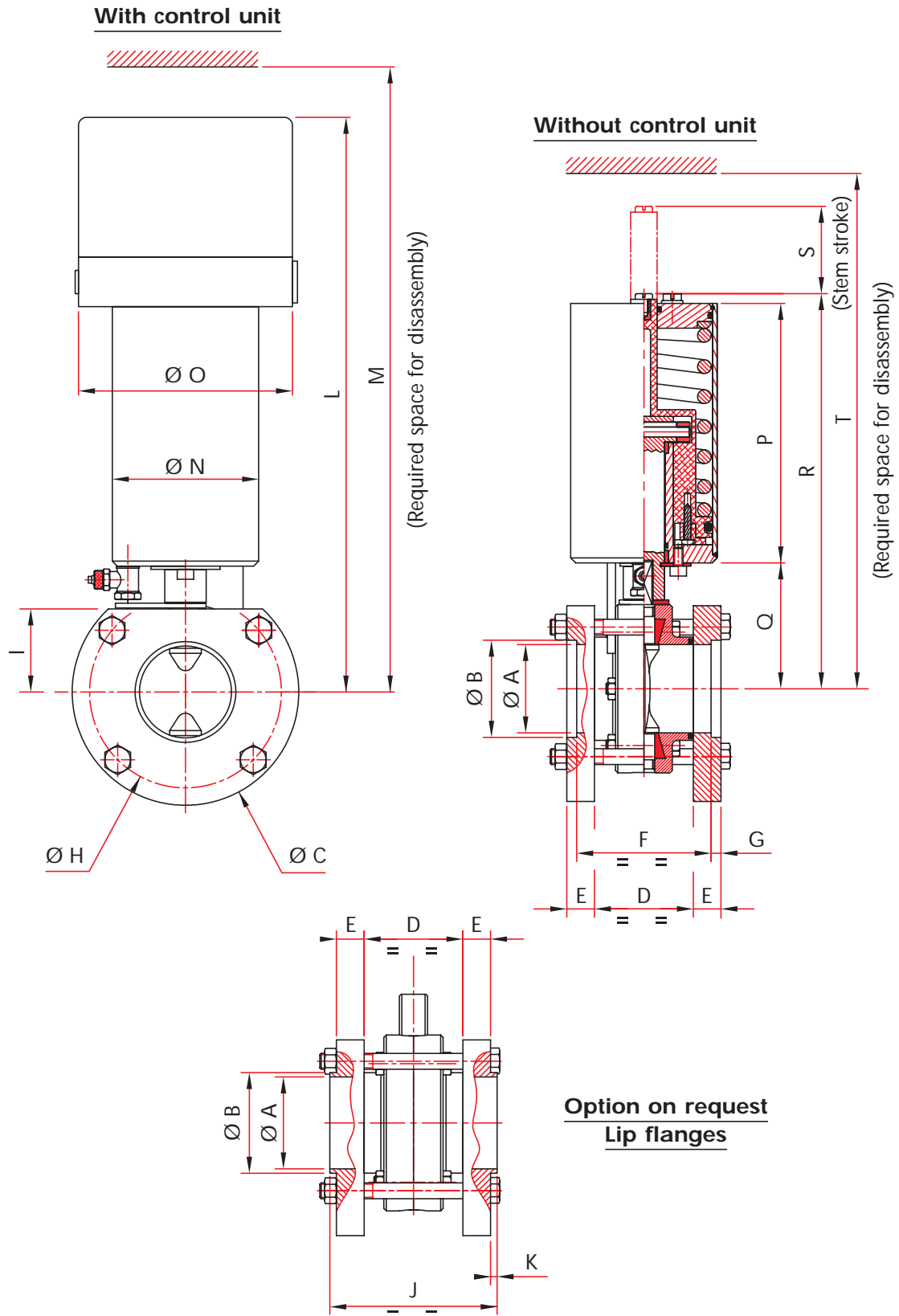
### Manual DPX butterfly valve between flanges

DN			Ø A	Ø B	Ø C	D	E	F	G	Ø H	I	J	K	O	P	Q	R	Screw Ø	Weight in kg
SMS	DIN	US																	
25			22,1	25	104	50	14	68	5	87	37	82	2	30	165	100	70	M8	1,9
			22,1	25	104	50	14	68	5	87	37	82	2	30	165	100	70	M8	1,9
			26	28	104	50	14	68	5	87	37	82	2	30	165	100	70	M8	1,9
			32	34	104	50	14	68	5	87	37	82	2	30	165	100	70	M8	1,9
			34,8	38	104	50	14	68	5	87	37	82	2	30	165	100	70	M8	2,3
38			34,8	38	104	50	14	68	5	87	37	82	2	30	165	100	70	M8	2,3
			34,8	38	104	50	14	68	5	87	37	82	2	30	165	100	70	M8	2,3
			38	40	104	50	14	68	5	87	37	82	2	30	165	100	70	M8	2,3
51			47,5	51	114	50	14	68	5	97	42	82	2	30	165	105	75	M8	3,4
			47,5	51	114	50	14	68	5	97	42	82	2	30	165	105	75	M8	3,4
			50	53	114	50	14	68	5	97	42	82	2	30	165	105	75	M8	3,4
63			60,2	63,5	134	50	14	68	5	114	50	82	2	30	165	112	83	M10	3,6
			60,2	63,5	134	50	14	68	5	114	50	82	2	30	165	112	83	M10	3,6
			66	70	149,5	50	14	68	5	129,5	57	82	2	30	165	120	91	M10	4,4
76			72,9	76	149,5	50	14	68	5	129,5	57	82	2	30	165	120	91	M10	4,4
			72,9	76	149,5	50	14	68	5	129,5	57	82	2	30	165	120	91	M10	4,4
			81	85	164	58	14	76	5	138,5	61	90	2	35	260	145	101	M10	8,9
104			97,4	101,6	188	58	14	76	5	158,5	72	90	2	35	260	155	112	M10	9,3
			100	104	188	58	14	76	5	158,5	72	90	2	35	260	155	112	M10	9,3
			100	104	188	58	14	76	5	158,5	72	90	2	35	260	155	112	M10	9,3
125			125	129	214	58	14	76	5	191	87	90	2	35	260	170	128	M12	9,7
			146,9	152,4	250	58	14	76	5	216	98	90	2	35	260	190	140	M12	11,8
			150	154	250	58	14	76	5	216	98	90	2	35	260	190	140	M12	11,8

## DPX - DPAX butterfly valve ends



### Automated DPAX butterfly valve between flanges



DPX - DPAX butterfly valve ends

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Automated DPAX butterfly valve between flanges

DN			A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	Weight in kg**
SMS	DIN	US																					
25			22,1	25	104	50	14	68	5	87	37	82	2	339	369	89	130	157	67	231	53	304	6,1
		1"	22,1	25	104	50	14	68	5	87	37	82	2	339	369	89	130	157	67	231	53	304	6,1
	25		26	28	104	50	14	68	5	87	37	82	2	339	369	89	130	157	67	231	53	304	6,1
	32		32	34	104	50	14	68	5	87	37	82	2	339	369	89	130	157	67	231	53	304	6
38			34,8	38	104	50	14	68	5	87	37	82	2	339	369	89	130	157	67	231	53	304	6,4
		1" 1/2	34,8	38	104	50	14	68	5	87	37	82	2	339	369	89	130	157	67	231	53	304	6,4
	40		38	40	104	50	14	68	5	87	37	82	2	339	369	89	130	157	67	231	53	304	6,4
51			47,5	51	114	50	14	68	5	97	42	82	2	345	375	89	130	157	73	237	53	310	7,8
		2"	47,5	51	114	50	14	68	5	97	42	82	2	345	375	89	130	157	73	237	53	310	7,8
	50		50	53	114	50	14	68	5	97	42	82	2	345	375	89	130	157	73	237	53	310	7,8
63			60,2	63,5	134	50	14	68	5	114	50	82	2	354	384	89	130	157	82	246	53	319	8,1
		2" 1/2	60,2	63,5	134	50	14	68	5	114	50	82	2	354	384	89	130	157	82	246	53	319	8,1
	65		66	70	149,5	50	14	68	5	129,5	57	82	2	363	393	89	130	157	91	255	53	328	9,3
76			72,9	76	149,5	50	14	68	5	129,5	57	82	2	363	393	89	130	157	91	255	53	328	9,2
		3"	72,9	76	149,5	50	14	68	5	129,5	57	82	2	363	393	89	130	157	91	255	53	328	9,2
	80		81	85	164	58	14	76	5	138,5	61	90	2	379	414	115	130	174	90	274	53	352	17,4
		4"	97,4	101,6	188	58	14	76	5	158,5	72	90	2	390	425	115	130	174	101	285	53	363	18,5
	100		100	104	188	58	14	76	5	158,5	72	90	2	390	425	115	130	174	101	285	53	363	18,5
104			100	104	188	58	14	76	5	158,5	72	90	2	390	425	115	130	174	101	285	53	363	18,5
	125		125	129	214	58	14	76	5	191	87	90	2	405	445	115	130	174	116	300	53	383	19,3
		6"	146,9	152,4	250	58	14	76	5	216	98	90	2	417	460	114	130	173	129	312	53	395	21,4
	150		150	154	250	58	14	76	5	216	98	90	2	417	460	114	130	173	129	312	53	395	21,4

\* Without  
control unit

# DPAX DE double sealing butterfly valve

## Design

This valve assembly, only available in an automatic version, uses a combination of two main butterfly valves between flanges connected by a channel forming an air space. This channel is equipped with a leakage microvalve and an optional air space washing microvalve.

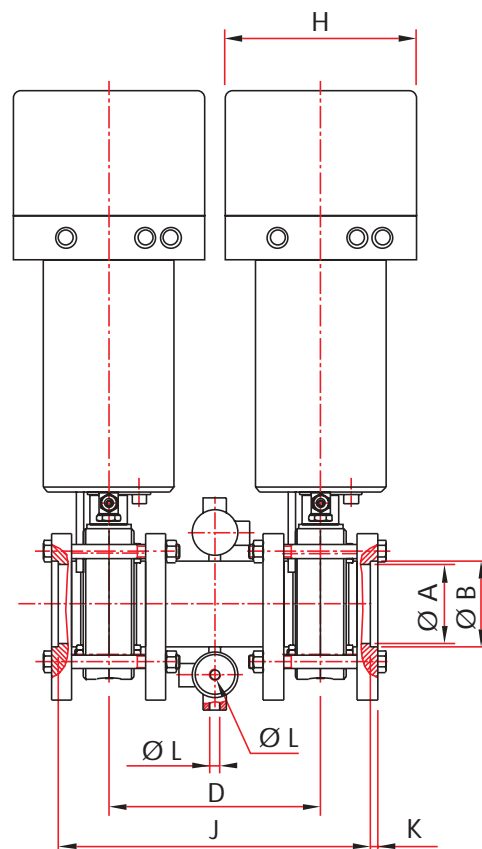
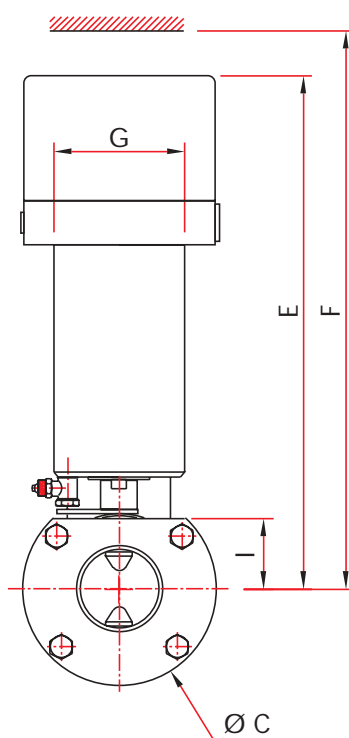
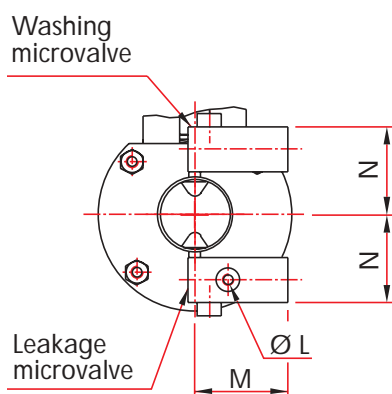
Technical specifications are the same as the base model specifications.

When both valves are closed, the venting of the air space reveals a fault on either of the valves. This guarantees that one circuit does not contaminate another.

In order to ensure simultaneous operation of these valves, a pneumatic connection is made between these three valves and the single control solenoid valve. An auxiliary solenoid valve may be used if necessary to open one of the two butterfly valves during cleaning in order to wash out the air space.

Components of the double sealing butterfly valve between flanges:

- leakage (and washing) indicator(s),
- two DPX valves between flanges,
- two actuators.



# DPAX DE double sealing butterfly valve

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## Dimensions

DN			
SMS	DIN	US	
25		1"	
	25		
	32		
38		1"1/2	
	40	2"	
51			
	50	2" 1/2	
63			
	65		
76		3"	
	80		
		4"	
	100		
104			
	125	6"	
	150		

Ø A	Ø B	Ø C	D	E	F	G	H	I	J	K	Ø L	M	N	Weight in kg*
22,1	25	104	144	339	369	89	130	37	212	5	1/8 gas	63,5	46,5	11
22,1	25	104	144	339	369	89	130	37	212	5	1/8 gas	63,5	46,5	11
26	28	104	144	339	369	89	130	37	212	5	1/8 gas	63,5	48	11
32	34	104	144	339	369	89	130	37	212	5	1/8 gas	63,5	51	11
34,8	38	104	144	339	369	89	130	37	212	5	1/8 gas	63,5	53	11,8
34,8	38	104	144	339	369	89	130	37	212	5	1/8 gas	63,5	53	11,8
38	40	104	144	339	369	89	130	37	212	5	1/8 gas	63,5	54	11,8
47,5	51	114	144	345	375	89	130	42	212	5	1/8 gas	63,5	59,5	14,2
47,5	51	114	144	345	375	89	130	42	212	5	1/8 gas	63,5	59,5	14,2
50	53	114	144	345	375	89	130	42	212	5	1/8 gas	63,5	60,5	14,2
60,2	63,5	134	144	354	384	89	130	50	212	5	1/8 gas	63,5	66	14,6
60,2	63,5	134	144	354	384	89	130	50	212	5	1/8 gas	63,5	66	14,6
66	70	149,5	144	363	393	89	130	57	212	5	1/8 gas	63,5	69	16,2
72,9	76	149,5	144	363	393	89	130	57	212	5	1/8 gas	63,5	72	16,2
72,9	76	149,5	144	363	393	89	130	57	212	5	1/8 gas	63,5	72	16,2
81	85	164	150	379	414	115	130	61	226	5	1/8 gas	63,5	76,5	30,4
97,4	101,6	188	150	390	425	115	130	72	226	5	1/8 gas	63,5	85	31,2
100	104	188	150	390	425	115	130	72	226	5	1/8 gas	63,5	85	31,2
100	104	188	150	390	425	115	130	72	226	5	1/8 gas	63,5	86	31,2
125	129	214	150	405	445	115	130	87	226	5	1/8 gas	63,5	98,5	32
146,9	152,4	250	150	417	460	114	130	98	226	5	1/8 gas	63,5	110	36,5
150	154	250	150	417	460	114	130	98	226	5	1/8 gas	63,5	111	36,5

\* Without  
control unit

## DPAX DE double sealing butterfly valve

### Working conditions

DN			Maximum working pressure (Bar)	Pressure drop (Kv)	Pressure drop (Cv)	Sealing pressure (Bar)	Opening time (s)	Air consumption (NI)	Torque (da N/m)
SMS	DIN	US							
25	25	1"	10	42	48,72	12	3	2	2,8
			10	49	56,84	12	3	2	2,8
32			10	61	70,76	12	3	2	2,8
	32		10	65	75,4	12	3	2	2,8
38		1"1/2	10	78	90,48	12	3	2	2,8
	40		10	85	98,6	12	3	2	2,8
51		2"	10	185	214,6	12	3	2	2,8
	50		10	190	220,4	12	3	2	2,8
63		2" 1/2	10	360	417,6	12	3	2	2,8
	65		10	395	458,2	12	3	2	2,8
76		3"	10	430	498,8	12	3	2	2,8
	80		6	552	640,32	8	5	4	4
104	100	4"	6	860	997,6	8	5	4	4
	125		4	1350	1566	6	5	4	4
	150	6"	4	1980	2297	6	6	4	4,5

#### FOR ALL DIAMETERS OF DPAX DE DOUBLE SEALING BUTTERFLY VALVE

Maximum temperature: +120 °C	Minimum temperature: 0 °C	Temperature difference: 90 °C
Vacuum resistance: 0,4 cm <sup>3</sup> /s	Maximum supply pressure: 8 Bar	Minimum supply pressure: 4,5 Bar

# DPX butterfly valve with quick-remove clamp

## Dimensions

DN	Ø A	Ø B	Ø C	D	E	F	G	Ø H	I	J	K	L
25 SMS - 1" to be welded	22,1		25,4		25	56,5	68,5	79	100	165	30	85
1" clamp	22,1	50,5		44,5		56,5	68,5	79	100	165	30	85
1 1/2" clamp	39	64		36		56,5	68,5	79	100	165	30	85

## Design

This valve is only available in 1" and 1 1/2" diameters with ends adapted as required. This is an exclusively manual valve designed for circumstances where frequent disassembly for cleaning and

sterilisation is called for. Can be supplied with a mirror finish (Ra = 0,2 µm or 320 grit).

Technical specifications are the same as the base model specifications.

## Working conditions

DN		Pressure drop (Kv)	Pressure drop (Cv)
SMS	US		
25	1"	42	48,72
38	1 1/2"	78	90,48

FOR ALL DIAMETERS OF DPX BUTTERFLY VALVE WITH QUICK-REMOVE CLAMP			
Maximum temperature: +120 °C		Minimum temperature: 0 °C	
Maximum working pressure: 10 Bar		Vacuum resistance: 0,4 cm³/s	
		Temperature difference: 90 °C	
		Pressure sealing: 12 Bar	

