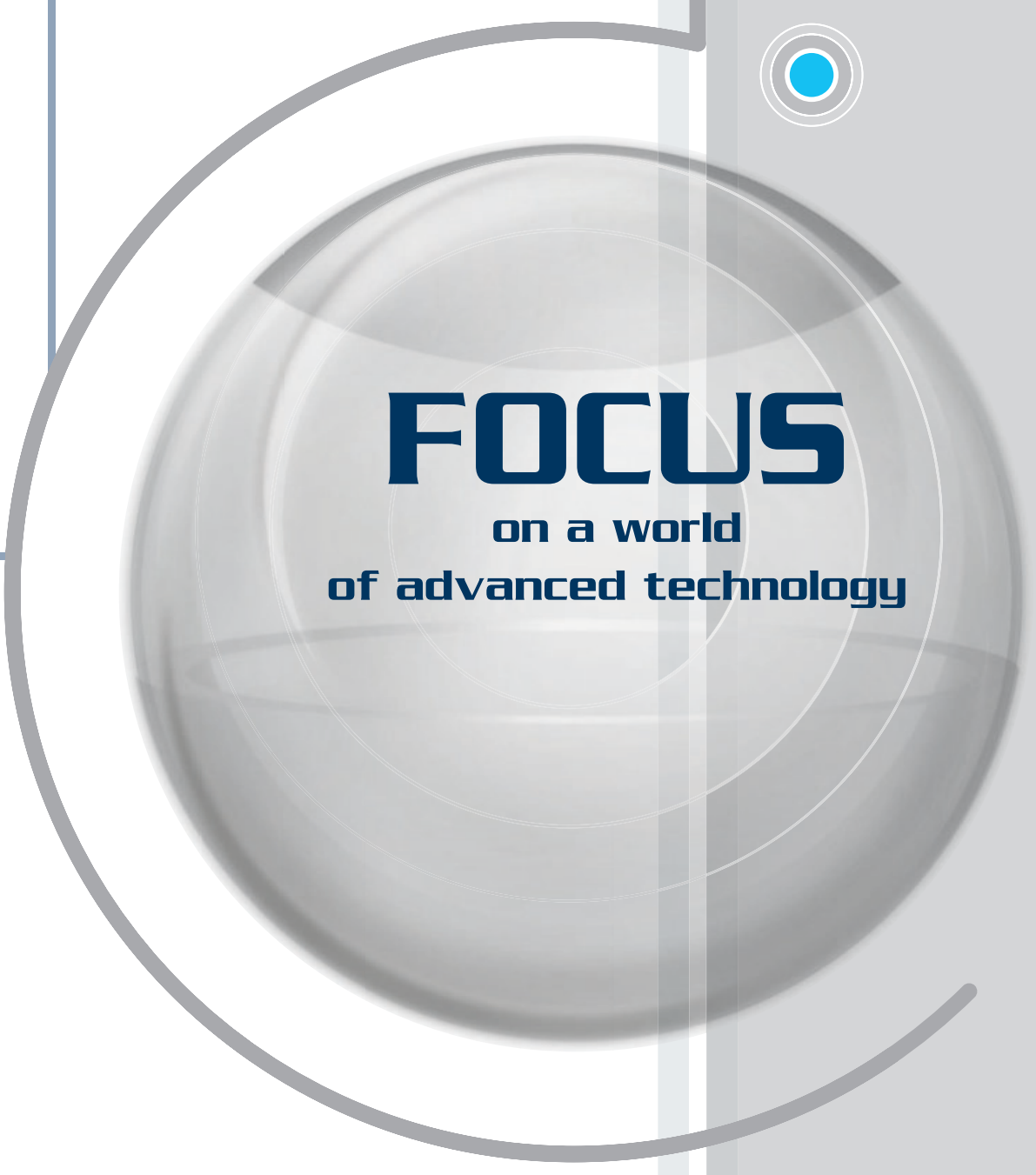


VALVES & EQUIPMENT



FOCUS
on a world
of advanced technology

Butterfly valves DPX - DPAX

FEATURES

- Reliable and economical technology
- Quick assembly and disassembly
- Can be used for a variety of applications
- Low pressure loss and line transfer without retention
- Easy to adjust operating devices

SPECIFICATIONS

DIMENSIONS

- SMS - DIN - US
- from DN 25 (1") to DN 150 (6")

MATERIALS

- Half body: stainless steel 316L
 Disc: stainless steel 316L
 Seal: EPDM - fluorinated elastomer (FKM) or silicon
 Operating devices: stainless steel 304

CONNECTIONS

- | | |
|------------------|-------------------------|
| CONNECTION TYPES | STANDARDS |
| To weld | SMS - DIN - US standard |
| Threaded | SMS - DIN |
| Liner-nut | SMS - DIN |
| Clamp | US standard |

OPERATING DEVICES

MANUAL - DPX

- Right-opening standard or trigger handle
 Left-opening standard or trigger handle
 Simple adjusting handle
 Micrometric handle

AUTOMATIC - DPAX

- Single or double acting valve actuator

SIGNALLING EQUIPMENT

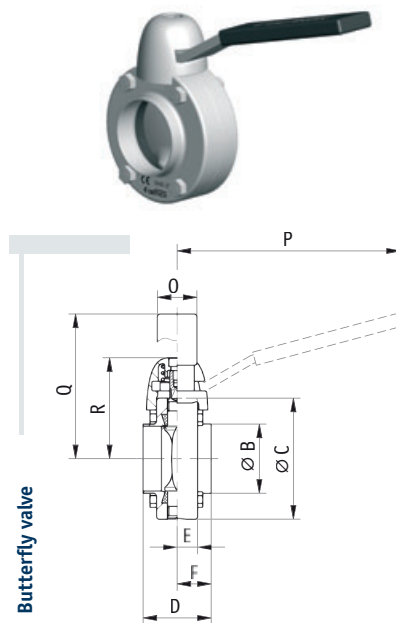
- Visible on single or double stainless steel bracket
 Point-to-point or AS-i control unit
 ICS (from DN 25 to DN 150)
 ACS (from DN 25 to DN 150)

SURFACE CONDITIONS

- RA exterior = 1.2 µm (150 grit)
- RA interior = 0.8 µm (180 grit)

SERVICE CONDITIONS

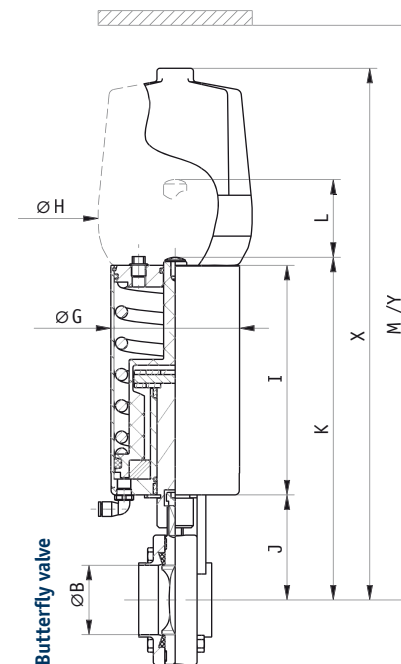
- Max. temperature: +120°C (temperature depending on seal type)
- Min. temperature: 0°C
- Max. working pressure: from 4 to 10 bar (400 to 1000 kPa) depending on diameter
- Actuator air supply pressure: min. 5.5 bar (550 kPa) - max. 8 bar (800 kPa)
- Vacuum resistance: 0.4 cm³/s



DPX manual - standard handle



DPX manual - trigger handle



DPAX automatic



Tube ØB	ØC	D	E	F	ØG	ØH	I	J	K	L (stroke)	M (without unit)	O	P	Q	R	X	Y (with unit)	Weight in Kg	
																		DPX	DPAX
SMS 22.6/25	79	50	15	25	89	104	157	67	231	53	304	30	165	100	70	341	371	1.4	4.6
SMS 30/32	79	50	15	25	89	104	157	67	231	53	304	30	165	100	70	341	371	1.3	4.5
SMS 35.6/38	79	50	15	25	89	104	157	67	231	53	304	30	165	100	70	341	371	1.3	4.5
SMS 48.5/51	89	50	15	25	89	104	157	73	237	53	310	30	165	105	75	347	377	1.6	4.8
SMS 60.3/63.5	104	50	15	25	89	104	157	82	246	53	319	30	165	112	83	356	386	1.7	4.9
SMS 72/76	119	50	15	25	89	104	157	91	255	53	328	30	165	120	91	365	395	2	5.2
SMS 100/104	149	58	19	29	114	140	174	101	285	53	363	35	260	155	112	410	445	4.1	9.9
DIN 26/28	79	50	15	25	89	104	157	67	231	53	304	30	165	100	70	341	371	1.4	4.6
DIN 32/34	79	50	15	25	89	104	157	67	231	53	304	30	165	100	70	341	371	1.3	4.5
DIN 38/40	79	50	15	25	89	104	157	67	231	53	304	30	165	100	70	341	371	1.3	4.5
DIN 50/53	89	50	15	25	89	104	157	73	237	53	310	30	165	105	75	347	377	1.6	4.8
DIN 66/70	119	50	15	25	89	104	157	91	255	53	328	30	165	120	91	365	395	2.1	5.3
DIN 81/85	129	58	19	29	89	104	157	90	274	53	352	30	165	145	101	381	434	3.4	9.2
DIN 100/104	149	58	19	29	114	140	174	101	285	53	363	35	260	155	112	410	445	4.1	9.9
DIN 125/129	179	58	19	29	114	140	174	116	300	53	383	35	260	170	128	425	465	4.5	10.3
DIN 150/154	204	58	19	29	114	140	173	129	312	53	395	35	260	190	140	437	480	5.6	12
US 1" (22.1/25.4)	79	50	15	25	89	104	157	67	231	53	304	30	165	100	70	341	371	1.4	4.6
US 1 1/2" (34.8/38.1)	79	50	15	25	89	104	157	67	231	53	304	30	165	100	70	341	371	1.3	4.5
US 2" (47.5/50.8)	89	50	15	25	89	104	157	73	237	53	310	30	165	105	75	347	377	1.6	4.8
US 2 1/2" (60.2/63.5)	104	50	15	25	89	104	157	82	246	53	319	30	165	112	83	356	386	1.7	4.9
US 3" (72.9/76.1)	119	50	15	25	89	104	157	91	255	53	328	30	165	120	91	365	395	2	5.2
US 4" (97.4/101.6)	149	58	19	29	114	140	174	101	285	53	363	35	260	155	112	410	445	4.1	9.9
US 6" (146.9/152.4)	204	58	19	29	114	140	173	129	312	53	395	35	260	190	140	437	480	5.6	12

Interflange butterfly valves DPX EB - DPAX EB

FEATURES

- New compact interflange valve design
- O-rings that seal between the half bodies and the flange
- Quick assembly and disassembly
- Can be used for a variety of applications
- Low pressure loss and line transfer without retention
- Easy to adjust operating devices

SPECIFICATIONS

DIMENSIONS

- SMS - DIN - US
- from DN 25 (1") to DN 150 (6")

MATERIALS

Half body:	stainless steel 316L
Disc:	stainless steel 316L
Weld end:	stainless steel 316L
Seal:	EPDM - fluorinated elastomer (FKM) or silicon
Flange and fastening:	stainless steel 304
Operating devices:	stainless steel 304

OPERATING DEVICES

MANUAL - DPX

Left standard or trigger handle
Right standard or trigger handle

AUTOMATIC - DPAX

Single or double acting valve actuator

SIGNALLING EQUIPMENT

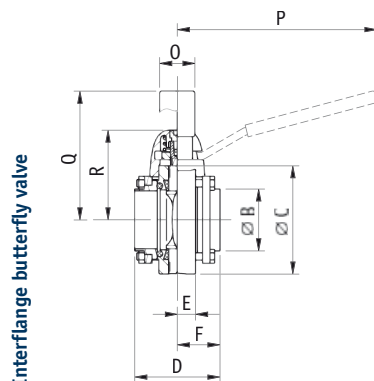
Visible on single or double stainless steel bracket
Point-to-point or AS-i control unit
ICS (from DN 25 to DN 150)
ACS (from DN 25 to DN 150)

SURFACE CONDITIONS

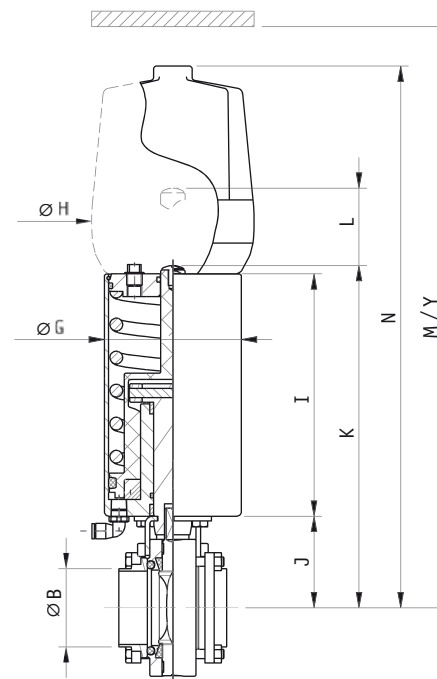
- RA exterior = 1.2 µm (150 grit)
- RA interior = 0.8 µm (180 grit)

SERVICE CONDITIONS

- Max. temperature: +120°C (temperature depending on seal type)
- Min. temperature: 0°C
- Max. working pressure: from 4 to 10 bar (400 to 1000 kPa)
depending on diameter
- Actuator air supply pressure:
min. 5.5 bar (550 kPa) - max. 8 bar (800 kPa)
- Vacuum resistance: 0.4 cm³/s



DPX EB manual



Interflange butterfly valve

DPAX EB automatic



Tube ØB	ØC	D	E	F	ØG	ØH	I	J	K	L	M	N	O	P	Q	R	Y	Weight in Kg	
										(stroke)	(without unit)	(with unit)	DPX	DPAX					
SMS 22.6/25	79	68	15	34	89	104	157	55	218	53	291	347	30	165	100	70	371	1.8	5.1
SMS 30/32	79	68	15	34	89	104	157	55	218	53	291	347	30	165	100	70	371	1.6	5
SMS 35.6/38	79	70	15	35	89	104	157	55	218	53	291	347	30	165	100	70	371	1.8	4.9
SMS 48.5/51	89	70	15	35	89	104	157	60	223	53	296	352	30	165	105	75	377	1.8	5.1
SMS 60.3/63.5	104	82	15	41	89	104	157	68	230	53	303	360	30	165	112	83	386	3.9	5.9
SMS 72/76	119	82	15	41	89	104	157	76	239	53	312	368	30	165	120	91	395	3.9	6.4
SMS 100/104	149	90	19	45	114	140	174	90	275	53	353	416	35	260	155	112	445	5.1	10.7
DIN 26/28	79	68	15	34	89	104	157	55	218	53	291	347	30	165	100	70	371	1.8	5.1
DIN 32/34	79	68	15	34	89	104	157	55	218	53	291	347	30	165	100	70	371	1.6	5
DIN 38/40	79	70	15	35	89	104	157	55	218	53	291	347	30	165	100	70	371	1.8	4.9
DIN 50/53	89	70	15	35	89	104	157	60	223	53	296	352	30	165	105	75	377	1.8	5.1
DIN 66/70	119	82	15	41	89	104	157	76	239	53	312	368	30	165	120	91	395	3.5	6.2
DIN 81/85	129	82	15	41	89	104	157	76	239	53	317	368	30	165	120	91	395	4.1	6.6
DIN 100/104	149	90	19	45	114	140	174	90	275	53	353	416	35	260	155	112	445	5.1	10.7
DIN 125/129	179	92	19	46	114	140	174	105	291	53	374	431	35	260	170	128	471	7.1	12.5
DIN 150/154	204	92	19	46	114	140	174	118	303	53	386	444	35	260	190	140	487	8.4	13.6
US 1" (22.1/25.4)	79	68	15	34	89	104	157	55	218	53	291	347	30	165	100	70	371	1.8	5.1
US 1 1/2 (34.8/38.1)	79	70	15	35	89	104	157	55	218	53	291	347	30	165	100	70	371	1.8	4.9
US 2" (47.5/50.8)	89	70	15	35	89	104	157	60	223	53	296	352	30	165	105	75	377	1.8	5.1
US 2 1/2 (60.2/63.5)	104	82	15	41	89	104	157	68	230	53	303	360	30	165	112	83	386	3.9	5.9
US 3" (72.9/76.1)	119	82	15	41	89	104	157	76	239	53	312	368	30	165	120	91	395	3.9	6.4
US 4" (97.4/101.6)	149	90	19	45	114	140	174	90	275	53	353	416	35	260	155	112	445	5.1	10.7
US 6" (146.9/152.4)	204	92	19	46	114	140	174	118	303	53	386	444	35	260	190	140	487	8.4	13.6

Diaphragm valves DMX - DMAX



FEATURES

- No product entrapment areas that prevents the development of bacteria
- Retained passage diameter
- Low loss of pressure
- Quick assembly and disassembly ; easy maintenance
- Easy to adjust operating devices
- Machined solid body to guarantee good material uniformity
- Valve can be washed and sterilised
- Leak detection in case of deterioration of the diaphragm

SPECIFICATIONS

DIMENSIONS

- Diaphragm valve from DN 9/13.5 to DN 41.8/48.3 ISO STD
- Sampling diaphragm valve from DN 6/8 to DN 16/18 DIN

MATERIALS

- Body: stainless steel 316L
 Handle: plastic material PBT (thermoplastic polymer polyester)
 stainless steel 304 on request
 Actuator: stainless steel 304
 Diaphragm: uniform composite diaphragm (PTFE and elastomer) FDA/3A certified
 EPDM or silicon diaphragm

CONNECTIONS

- CONNECTION TYPES STANDARDS
 Welded SMS - DIN - US standard
 Threaded SMS - DIN
 Liner-nut SMS - DIN
 Clamp US standard

OPERATING DEVICES

MANUAL - DMX

Ergonomic handle with visual opening indicator

AUTOMATIC - DMAX

Single or double acting valve actuator

SIGNALLING EQUIPMENT

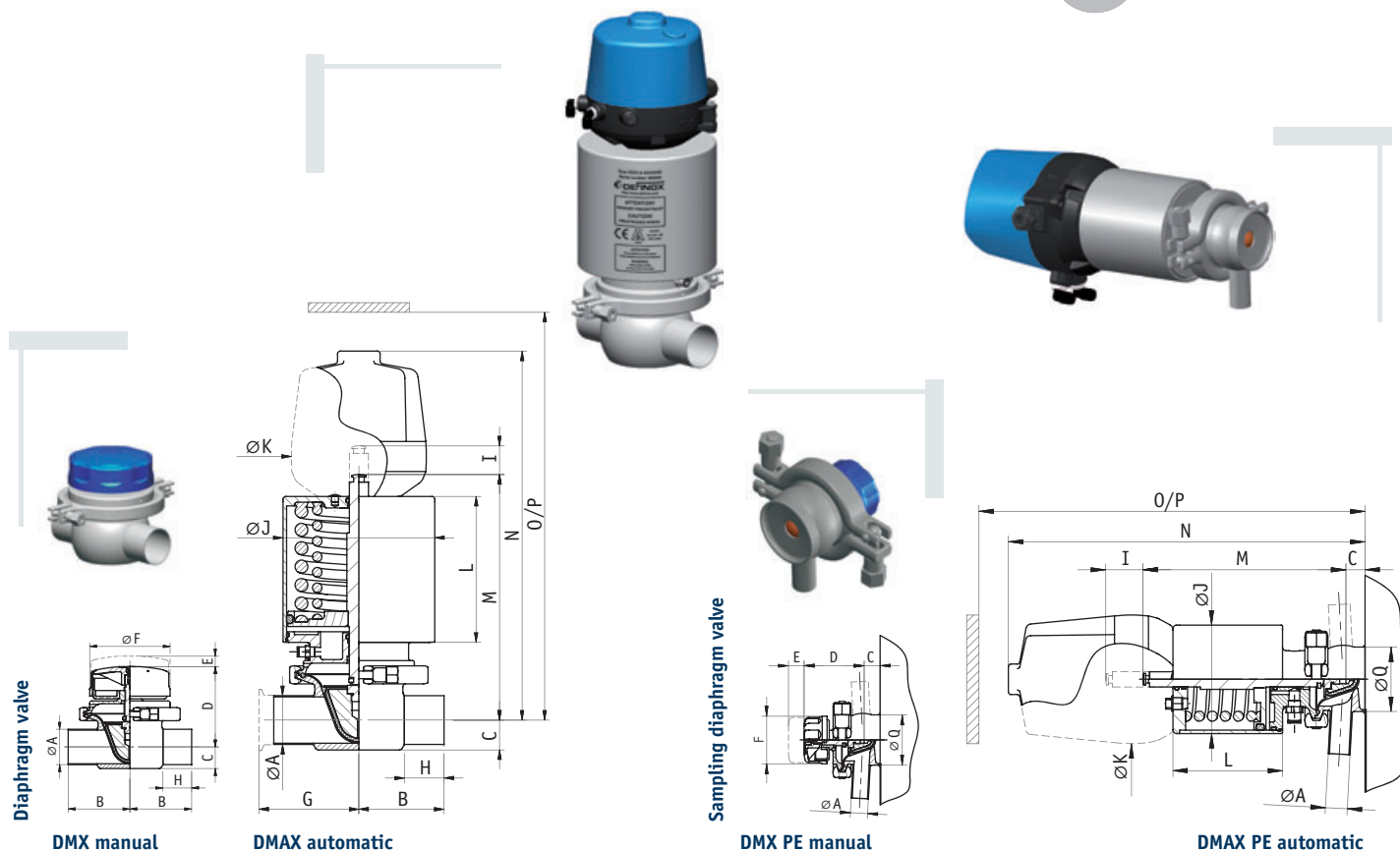
Visible on single or double stainless steel bracket
 Point to point or AS-i control unit
 ICS (from DN 9 to DN 53)

SURFACE CONDITIONS

- RA exterior = 1.2 µm (150 grit)
- RA interior = 0.8 µm (180 grit)
 0.4 µm (240 grit) on request
 0.2 µm (320 grit) on request

SERVICE CONDITIONS

- Max. temperature: +140°C
- Min. temperature: 0°C
- Max. working pressure: 10 bar (1000 kPa) elastomer diaphragm
 8 bar (800 kPa) PTFE diaphragm
- Vacuum resistance elastomer diaphragm: 10⁻⁶ mbar
 Helium tightness (leakage rate): 10⁻⁶ atm.cm³/s
- Vacuum resistance PTFE diaphragm: 10⁻³ mbar
 Helium tightness (leakage rate): 10⁻³ atm.cm³/s
- Actuator air supply pressure: min. 5.5 bar (550 kPa) - max. 8 bar (800 kPa)
- Fatigue resistance: 100 000 cycles elastomer diaphragm
 40 000 cycles PTFE diaphragm



DMX manual

DMAX automatic

DMX PE manual

DMAX PE automatic

Tube ØA	B	C	D	E	ØF	G	H	I	ØJ	ØK	L	M	N	O	P	ØQ	Weight in Kg	
Standard version				(stroke)				(stroke)						(without unit)	(with unit)		DMX	DMAX
ISO STD 9/13.5	30	13	56	5	50	42.5	18	5	59	104	90	173	268	191	286	-	0.3	2.5
ISO STD 12.5/17.2	50	15	69	10	50	62.5	29	11	89	104	90	182	280	212	310	-	1	3.2
ISO STD 16/21.3	50	17	68	10	50	62.5	30	11	89	104	90	181	279	210	308	-	1	3.2
ISO STD 21.6/26.9	60	22	98	12	78	72.5	26	12	114	104	120	224	315	263	354	-	2.4	7
ISO STD 27.2/33.7	60	25	95	12	78	72.5	26	12	114	104	120	222	313	257	348	-	2.5	7.2
ISO STD 35.9/42.4	88.5	29	120	22	78	101	43	22	159	140	147	274	364	327	419	-	4	13.3
ISO STD 41.8/48.3	88.5	35	117	22	78	101	42	22	159	104	147	271	361	320	413	-	4	13.3
Sampling																		
DN 6/8	-	5	56	5	50	-	-	5	59	104	90	173	280	193	300	25	0.3	2.5
DN 10/12	-	8	68	5	50	-	-	5	89	104	90	181	294	201	324	53	0.3	3.5
DN 9/13.5	-	8	68	5	50	-	-	5	89	104	90	181	294	201	324	53	0.3	3.7
DN 16/18	-	8	68	10	50	-	-	11	89	104	90	181	294	211	334	53	1	4

Manual sampling valves PEX - PEAX

FEATURES

- Simple and secure sampling solution
- Flame sterilisation (1 branch PEX1 / PEAX1) or steam injection sterilisation or cleaning with a sterilising agent (2 branches PEX2 / PEAX2)
- Neutral diaphragm available FDA certified
- Quick and easy to change operating devices

SPECIFICATIONS

DIMENSIONS

- DIN from DN 6/8 to DN 16/18

MATERIALS

Body:	stainless steel 316L machined from solid
Handle:	white plastic material or stainless steel 304
Actuator:	stainless steel 304
Diaphragm:	elastomer (fluorinated elastomer (FKM)- EPDM or white silicon)

VALVE BODY CONNECTIONS

Wall welded
Clamp
Pipe line welded
Male gas end

OPERATING DEVICES

MANUAL - PEX
Ergonomic handle

AUTOMATIC - PEAX
Compact pneumatic valve actuator
Stainless steel operating lever for DN 6 and 10
for manual control in an automatic cycle

SIGNALLING EQUIPMENT

Detection possible on request

SURFACE CONDITIONS

- RA exterior = 0.8 µm (180 grit)
- RA interior = 0.8 µm (180 grit) standard
0.4 µm (240 grit) on request

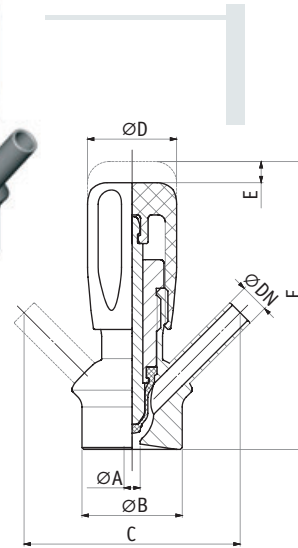
SERVICE CONDITIONS

- Max. temperature: +120°C
- Min. temperature: 0°C
- Max. working pressure: 10 bar (1000 kPa)
- Actuator air supply pressure:
4 to 6 bar (400 to 600 kPa)
- Air connection: Ø 4/6

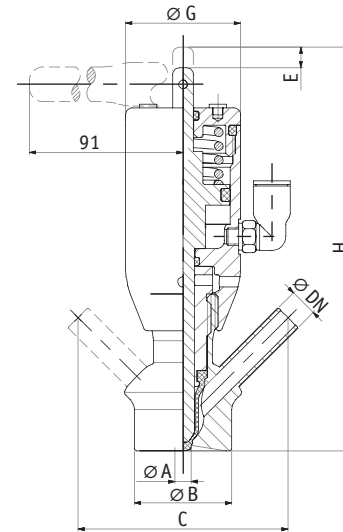
Tube ØB	ØA	ØB	C	ØD	E	F	ØG	H	ØI	ØJ	ØK	M	Weight in Kg	
													PEX	PEAX
DN 6/8	Ø4.5	Ø28	60	Ø26	5	75	Ø33	115	Ø50.4	Ø5.9	Ø7	12	0.2	0.5
DN 10/12	Ø8	Ø36	65	Ø30	7	90	Ø39	140	Ø50.4	Ø9.9	Ø11	12	0.3	0.65
DN 16/18	Ø15	Ø52	85	Ø39	7	102	Ø55	160	Ø50.4	Ø16.9	Ø18	12	0.75	1.5



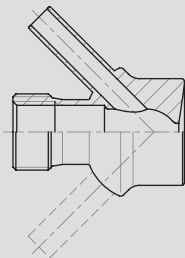
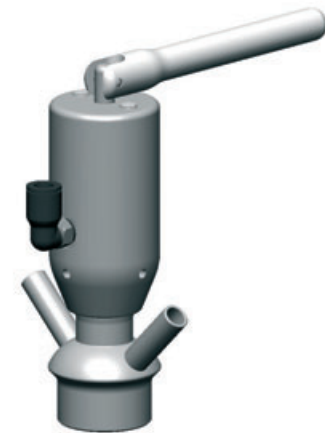
Sampling valve



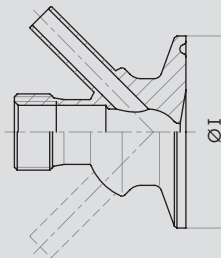
PEX manual



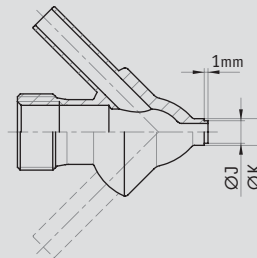
PEAX automatic



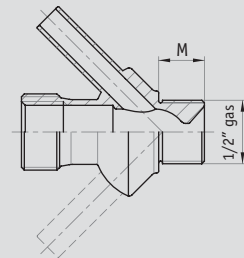
Wall welded



Clamp



Pipe line welded



Male gas end

Single sealing changeover valves DCX3 - DCX4

FEATURES

- Fitted as standard with a floating PFA valve seal that can be cleaned and offers outstanding tightness at high temperatures and good resistance to chemical products
- Dismountable pneumatic valve actuator that can be easily transformed into NO (Normally Open) - NC (Normally Closed) or DA (Double Acting)
- Connection of actuators and shut-off units with clamps for easier maintenance and offering a variety of options
- Spherical body with thick walls guaranteeing excellent resistance to expansion constraints and offering a variety of configurations: + - T - L - L/L - T/L

SPECIFICATIONS

DIMENSIONS

- SMS - DIN - US
- from DN 25 (1") to DN 104 (4") for the manual version
- from DN 25 (1") to DN 150 (6") for the automatic version

MATERIALS

- Body: stainless steel 316L
 Shut-off unit: stainless steel 316L
 Valve seal: floating PFA - EPDM
 fluorinated elastomer (FKM) or silicon
 Other seals: EPDM - fluorinated elastomer (FKM) or silicon
 Operating devices: stainless steel 304

CONNECTIONS

- CONNECTION TYPES STANDARDS
 Welded SMS - DIN - US standard
 Threaded SMS - DIN
 Liner-nut SMS - DIN
 Clamp US standard

OPTIONS

- Elastomer seal tightness
 Long stroke for maximum valve disengage

SIGNALLING EQUIPMENT

- Visible on single or double stainless steel bracket
 Point-to-point or AS-i control unit
 ICS (from DN 25 to DN 80)
 ACS (from DN 25 to DN 150)

SURFACE CONDITIONS

- RA exterior = 1.2 µm (150 grit)
- RA interior = 0.8 µm (180 grit)

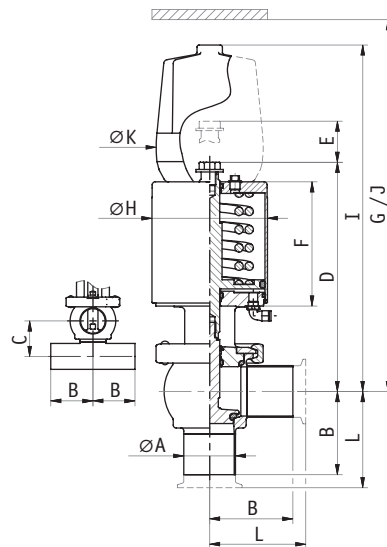
SERVICE CONDITIONS

- Max. temperature: +140°C (temperature depending on seal type)
- Min. temperature: -5°C
- Max. working pressure: 8 bar (800 kPa)
- Actuator air supply pressure: min. 5.5 bar (550 kPa) - max. 8 bar (800 kPa)
- Vacuum resistance: 0.4 cm³/s

Changeover valve

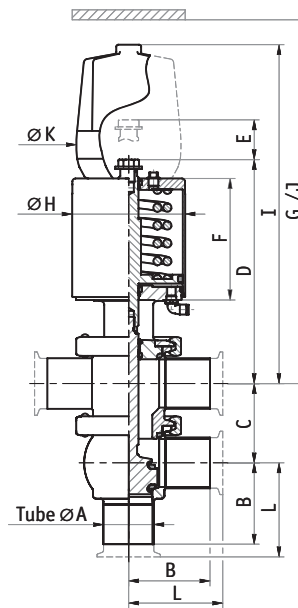


DCX3 manual



DCX3 automatic

Changeover valve



DCX4 automatic

Tube ØA	B	C		D		E (stroke)		F	G	ØH	I	J	ØK	L	Weight in Kg	
		DCX3	DCX4	DCX3	DCX4	DCX3	DCX4								DCX3	DCX4
SMS 22.6/25	55	45	55	193	192	17	14	110	280	89	302	430	104	70	4.5	6
SMS 35.6/38	70	55	70	195	195	21	18	110	300	89	309	430	104	85	5	6.5
SMS 48.5/51	82	70	80	224	225	29	27	123	340	114	338	460	104	97	8	9
SMS 60.3/63.5	105	85	95	276	275	35	32	159	400	167	388	500	104	125	17	20
SMS 72/76	110	95	105	281	280	35	32	159	430	167	394	510	104	130	17	21
SMS 100/104	130	125	150	333	335	40	35	181	530	216	461	600	140	155	33	40
DIN 26/28	55	47	55	192	192	17	14	110	280	89	302	430	104	-	4.6	5
DIN 32/34	55	51	65	197	194	17	17	110	300	89	307	430	104	-	4.7	5
DIN 38/40	70	55	70	195	195	21	18	110	310	89	309	430	104	-	5	5
DIN 50/53	80	71	80	224	225	29	27	123	340	114	338	460	104	-	8	9
DIN 66/70	108	93	100	277	277	35	31	159	400	167	390	500	104	-	17	20
DIN 81/85	115	105	130	288	291	40	36	159	420	167	420	510	104	-	18	23
DIN 100/104	130	125	150	333	335	40	35	181	530	216	461	600	140	-	33.1	45.8
DIN 125/129	160	155	165	488	488	70	56	285	590	270	614	730	140	-	62	73
DIN 150/154	180	180	195	500	500	70	62	285	620	270	625	760	140	-	65	78
US 1" (22.1/25.4)	51	45	82.5	192	192	17	14	110	280	89	302	430	104	64	4.5	6
US 1 1/2 (34.8/38.1)	57	55	82.5	195	195	21	18	110	300	89	309	430	104	70	5	6.5
US 2" (47.5/50.8)	76	70	95	224	225	29	27	123	350	114	338	470	104	89	7.5	10.2
US 2 1/2 (60.2/63.5)	76	85	108	276	275	35	32	159	420	167	388	520	104	89	15	19.3
US 3" (72.9/76.1)	82	95	120	281	280	35	32	159	430	167	394	520	104	95	15.5	19.1
US 4" (97.4/101.6)	130	125	165	333	335	40	35	181	540	216	461	590	140	146	33	40
US 6" (146.9/152.4)	180	180	195	500	500	70	62	285	620	270	625	760	140	200	65	78

Fractional changeover valves DCX3 - DCX4

FEATURES

- High sealing pressure
- Self-contained and compact body with a variety of configuration options: + - T - L - L/L - T/L
- Quick to disassemble

SPECIFICATIONS

DIMENSIONS

- US
- DN 1/2" and DN 3/4"

MATERIALS

Body: stainless steel 316L
 Shut-off unit: stainless steel 316L
 Valve seal: PFA - EPDM - fluorinated elastomer (FKM) or silicon
 Handle: plastic material
 Actuator: stainless steel 304

CONNECTIONS

To weld
 Clamp

OPERATING DEVICES

MANUAL

Ergonomic handle with visual opening indicator

AUTOMATIC

Single or double acting compact pneumatic valve actuator

OPTION

Adjustable actuator to pre-set the pressure for use as relief valve

SIGNALLING EQUIPMENT

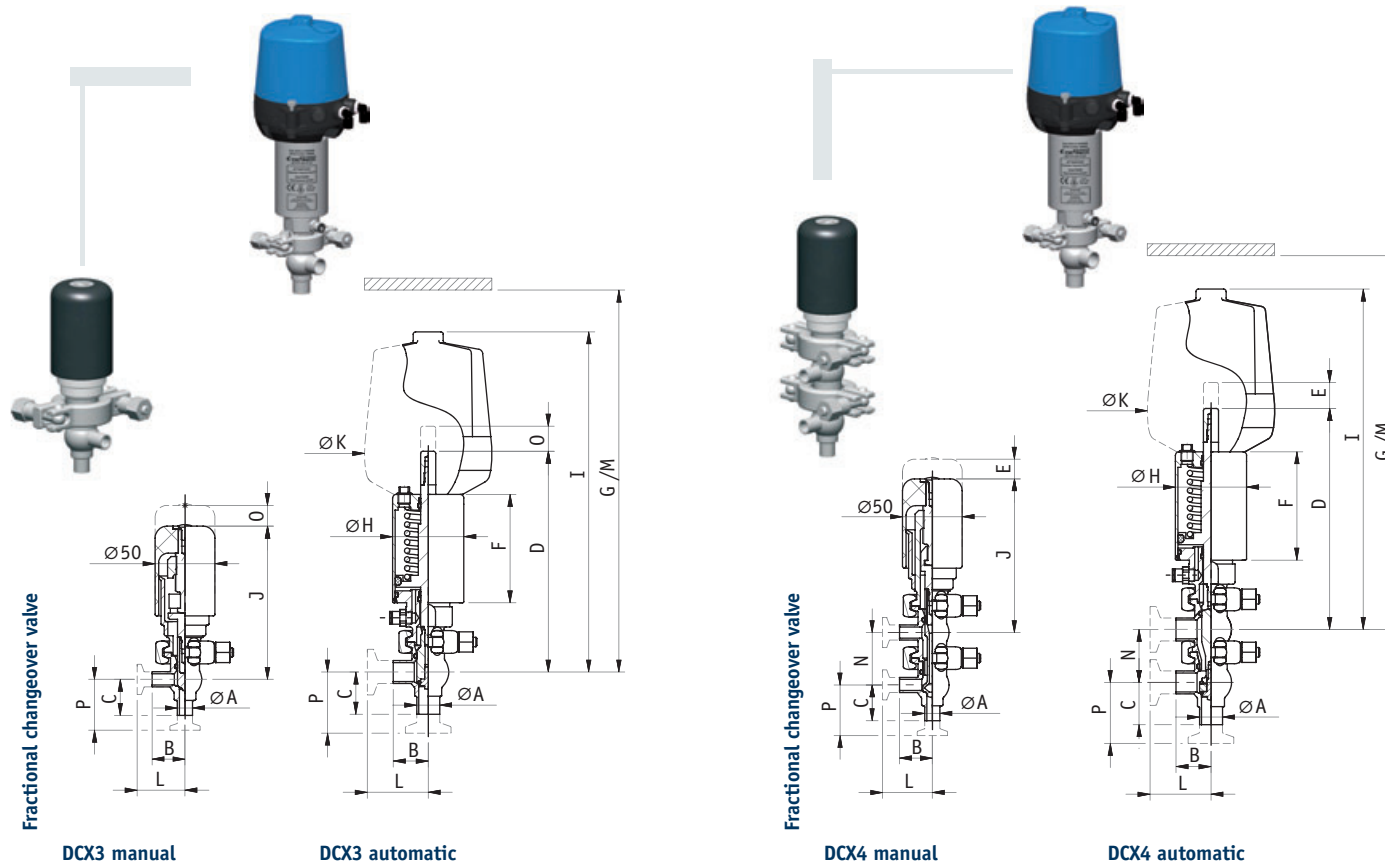
Visible on single or double stainless steel bracket
 Point-to-point or AS-i control unit
 ICS (DN 1/2" and DN 3/4")

SURFACE CONDITIONS

- RA exterior = 1.2 µm (150 grit)
- RA interior = 0.8 µm (180 grit)

SERVICE CONDITIONS

- Max. temperature: +140°C (temperature depending on seal type)
- Min. temperature: -5°C
- Max. working pressure: 18 bar (1800 kPa)
- Actuator air supply pressure:
 min. 5.5 bar (550 kPa) - max. 8 bar (800 kPa)
- Vacuum resistance: 0.4 cm³/s



Tube ØA	B	C	D	E	F	G	ØH	I	J	ØK	L	M	N	O	P	Weight in Kg DCX3		Weight in Kg DCX4	
																MANUAL	AUTO	MANUAL	AUTO
US 1/2" (9.4/12.7)	27.5	30	192	10.5	90	215	59	277	128	104	40	300	44	12	42.5	0.6	1.5	0.7	1.6
US 3/4" (15.75/19.05)	29	35	195	11	90	220	59	279	130	104	41.5	304	44	12	47.5	0.6	1.5	0.7	1.7
US 1" (22.1/25.4)	35.3	40	212	14.7	103	240	71	294	130	104	64	322	55	15	64	1	1.9	1.1	2

Diaphragm changeover valves DCX3 - DCX4

FEATURES

- Same features as standard DCX3 (floating seal – thick body, etc...)
- Fitted:
 - with PTFE (PolyTetraFluorEthylène) diaphragm to ensure a physical barrier between the inside of the valve and the outside environment
 - and with microvalve to warn of a leak or possible seal damage
- The stroke on these valves is slightly shorter than on a standard DCX valve.

SPECIFICATIONS

DIMENSIONS

- SMS - DIN - US
- from DN 25 (1") to DN 150 (6")

MATERIALS

Body:	stainless steel 316L
Shut-off unit:	stainless steel 316L
Valve seal:	floating PFA – EPDM fluorinated elastomer (FKM) or silicon
Other seals:	EPDM – fluorinated elastomer (FKM) or silicon
Operating devices:	stainless steel 304

CONNECTIONS

CONNECTION TYPES	STANDARDS
To weld	SMS - DIN - US standard
Threaded	SMS - DIN
Liner-nut	SMS - DIN
Clamp	US standard

OPTIONS

Deformable sealing diaphragm in PTFE and alcohol barrier
On request available up to DN 250 (10")

SIGNALLING EQUIPMENT

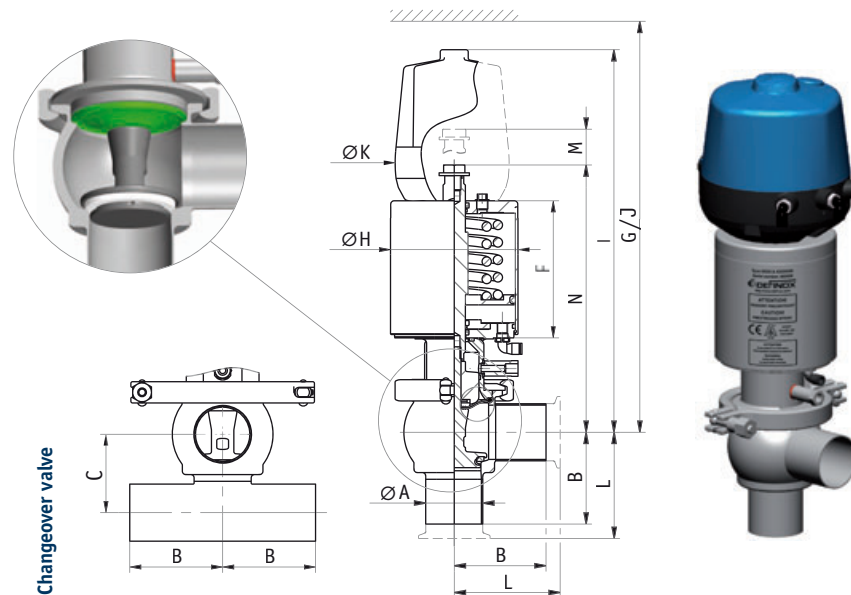
Visible on single or double stainless steel bracket
Point-to-point or AS-i control unit
ICS (from DN 25 to DN 80)
ACS (from DN 25 to DN 150)

SURFACE CONDITIONS

- RA exterior = 1.2 µm (150 grit)
- RA interior = 1.8 µm (180 grit)

SERVICE CONDITIONS

- Max. temperature: +140°C (temperature depending on seal type)
- Min. temperature: +1°C
- Max. working pressure:
 - 8 bar (800 kPa)
- Actuator air supply pressure:
 - min. 5.5 bar (550 kPa) – max. 8 bar (800 kPa)
- Vacuum resistance: 0,4 cm³/s



DCX3 diaphragm type

Tube ØA	B	C	F	G	ØH	I	J	ØK	L	M (stroke)	N	Weight in Kg
(without unit)					(with unit)							
SMS 22.6/25	55	45	110	280	89	302	430	104	70	12	205	6
SMS 35.6/38	70	55	110	300	89	309	430	104	85	12	205	6.5
SMS 48.5/51	82	70	123	340	114	338	460	104	97	17	239	9.5
SMS 60.3/63.5	105	85	159	400	167	388	500	104	125	26	292	18.5
SMS 72/76	110	95	159	430	167	394	510	104	130	26	292	18.5
SMS 100/104	130	125	181	530	216	461	600	140	155	35	342	36
DIN 26/28	55	47	110	280	89	302	430	104	-	12	205	6
DIN 32/34	55	51	110	300	89	307	430	104	-	12	205	6
DIN 38/40	70	55	110	310	89	309	430	104	-	12	205	6.5
DIN 50/53	80	71	123	340	114	338	460	104	-	17	239	9.5
DIN 66/70	108	93	159	400	167	390	500	104	-	26	292	18.5
DIN 81/85	115	105	159	420	167	420	510	104	-	35	342	19.5
DIN 100/104	130	125	181	530	216	461	600	140	-	35	342	36
DIN 125/129	160	155	285	590	270	614	730	140	-	36	513	69
DIN 150/154	180	180	285	620	270	625	760	140	-	36	525	81
US 1" (22.1/25.4)	51	45	110	280	89	302	430	104	64	12	205	6
US 1 1/2 (34.8/38.1)	57	55	110	300	89	309	430	104	70	12	205	6
US 2" (47.5/50.8)	76	70	123	350	114	338	470	104	89	17	239	9.5
US 2 1/2 (60.2/63.5)	76	85	159	420	167	388	520	104	89	26	292	18.5
US 3" (72.9/76.1)	82	95	159	430	167	394	520	104	95	26	292	18.5
US 4" (97.4/101.6)	130	125	181	540	216	461	590	140	146	35	342	36
US 6" (146.9/152.4)	180	180	285	620	270	625	760	140	200	36	525	81

Changeover valves DCX3 - DCX4 with aseptic bearing

FEATURES

- Same features as standard DCX3 (floating seal – thick body, etc...)
- Fitted with an aseptic guide bearing which steam or fluid (washing - rinsing) circulates through to clean the parts of the plug, which come into contact with the outside environment on the valve outstroke
When the valve closes, the stem in contact with the outside environment is sterilized before penetrating the valve body.

SPECIFICATIONS

DIMENSIONS

- SMS - DIN - US
from DN 25 (1") to DN 150 (6")

MATERIALS

Body:	stainless steel 316L
Shut-off unit:	stainless steel 316L
Valve seal:	floating PFA – EPDM fluorinated elastomer (FKM) or silicon
Other seals:	EPDM
Operating devices:	stainless steel 304

CONNECTIONS

CONNECTION TYPES	STANDARDS
To weld	SMS - DIN - US standard
Threaded	SMS - DIN
Liner-nut	SMS - DIN
Clamp	US standard

OPTION

Cooling bearing

SIGNALLING EQUIPMENT

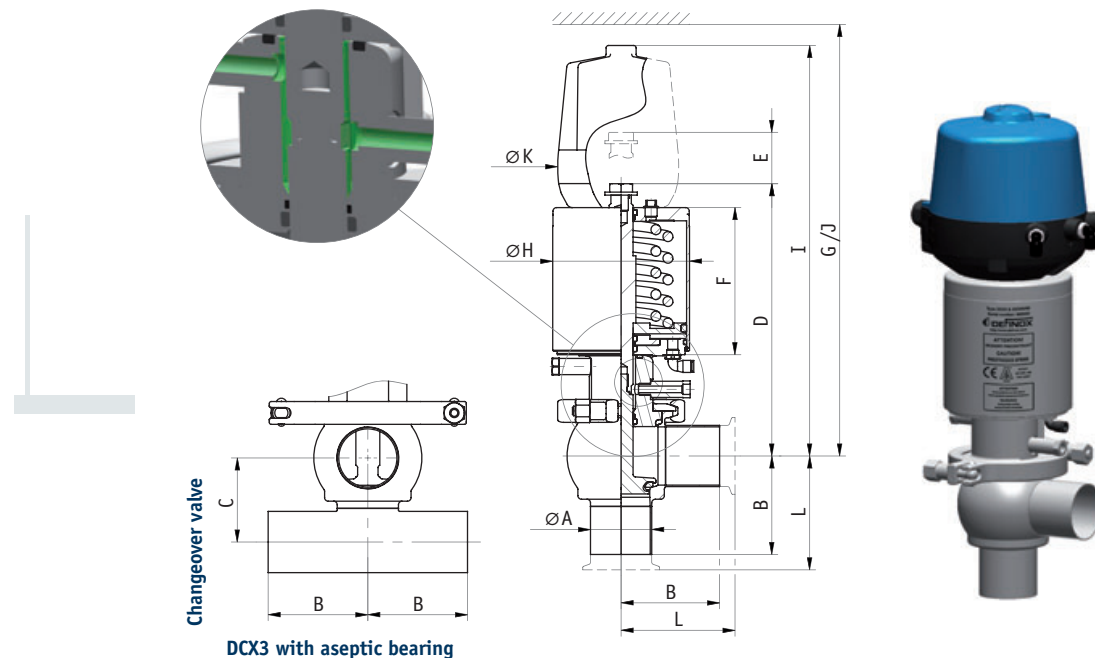
Visible on single or double stainless steel bracket
Point-to-point or AS-i control unit
ICS (from DN 25 to DN 80)
ACS (from DN 25 to DN 150)

SURFACE CONDITIONS

- RA exterior = 1.2 µm (150 grit)
- RA interior = 1.8 µm (180 grit)

SERVICE CONDITIONS

- Max. temperature: +140°C (temperature depending on seal type)
- Min. temperature: -5°C
- Max. working pressure:
8 bar (800 kPa)
- Actuator air supply pressure:
min. 5.5 bar (550 kPa) – max. 8 bar (800 kPa)
- Vacuum resistance: 0,4 cm³/s



Tube ØA	B	C	F	G (without unit)	ØH	I (with unit)	J (with unit)	ØK	L	D	E (stroke)	Weight in Kg
SMS 22.6/25	55	45	110	280	89	302	430	104	70	193	17	5
SMS 35.6/38	70	55	110	300	89	309	430	104	85	195	21	5.5
SMS 48.5/51	82	70	123	340	114	338	460	104	97	224	29	8.5
SMS 60.3/63.5	105	85	159	400	167	388	500	104	125	276	35	18
SMS 72/76	110	95	159	430	167	394	510	104	130	281	35	18
SMS 100/104	130	125	181	530	216	461	600	140	155	333	40	34
DIN 26/28	55	47	110	280	89	302	430	104	-	192	17	5
DIN 32/34	55	51	110	300	89	307	430	104	-	197	17	5
DIN 38/40	70	55	110	310	89	309	430	104	-	195	21	5.5
DIN 50/53	80	71	123	340	114	338	460	104	-	224	29	8.5
DIN 66/70	108	93	159	400	167	390	500	104	-	277	35	18
DIN 81/85	115	105	159	420	167	420	510	104	-	288	40	19
DIN 100/104	130	125	181	530	216	461	600	140	-	333	40	34
DIN 125/129	160	155	285	590	270	614	730	140	-	488	70	68
DIN 150/154	180	180	285	620	270	625	760	140	-	500	70	80
US 1" (22.1/25.4)	51	45	110	280	89	302	430	104	64	192	17	5
US 1 1/2 (34.8/38.1)	57	55	110	300	89	309	430	104	70	195	21	5.5
US 2" (47.5/50.8)	76	70	123	350	114	338	470	104	89	224	29	8.5
US 2 1/2 (60.2/63.5)	76	85	159	420	167	388	520	104	89	276	35	18
US 3" (72.9/76.1)	82	95	159	430	167	394	520	104	95	281	35	18
US 4" (97.4/101.6)	130	125	181	540	216	461	590	140	146	333	40	34
US 6" (146.9/152.4)	180	180	285	620	270	625	760	140	200	500	70	80

Double sealing changeover valve DCX3 DE

FEATURES

- Non-independent double valve system
- Leakage chamber with indicator preventing any risk of mixing between the lines
- Able to absorb overpressure under the plug
- Spherical body with thick walls guaranteeing excellent resistance to expansion constraints

SPECIFICATIONS

DIMENSIONS

- SMS - DIN - US
from DN 51 (2") to DN 100 (4")

MATERIALS

Body: stainless steel 316L
Shut-off unit: stainless steel 316L
Valve seal: EPDM - fluorinated elastomer (FKM) or silicon
Actuator: stainless steel 304

CONNECTIONS

CONNECTION TYPES STANDARDS
To weld SMS - DIN - US standard
Threaded SMS - DIN
Liner-nut SMS - DIN
Clamp US standard

OPTION

Washing microvalve that cleans the leakage chamber and the leakage microvalve when the valve is closed (requiring a 2nd solenoid valve in the control unit)

SIGNALLING EQUIPMENT

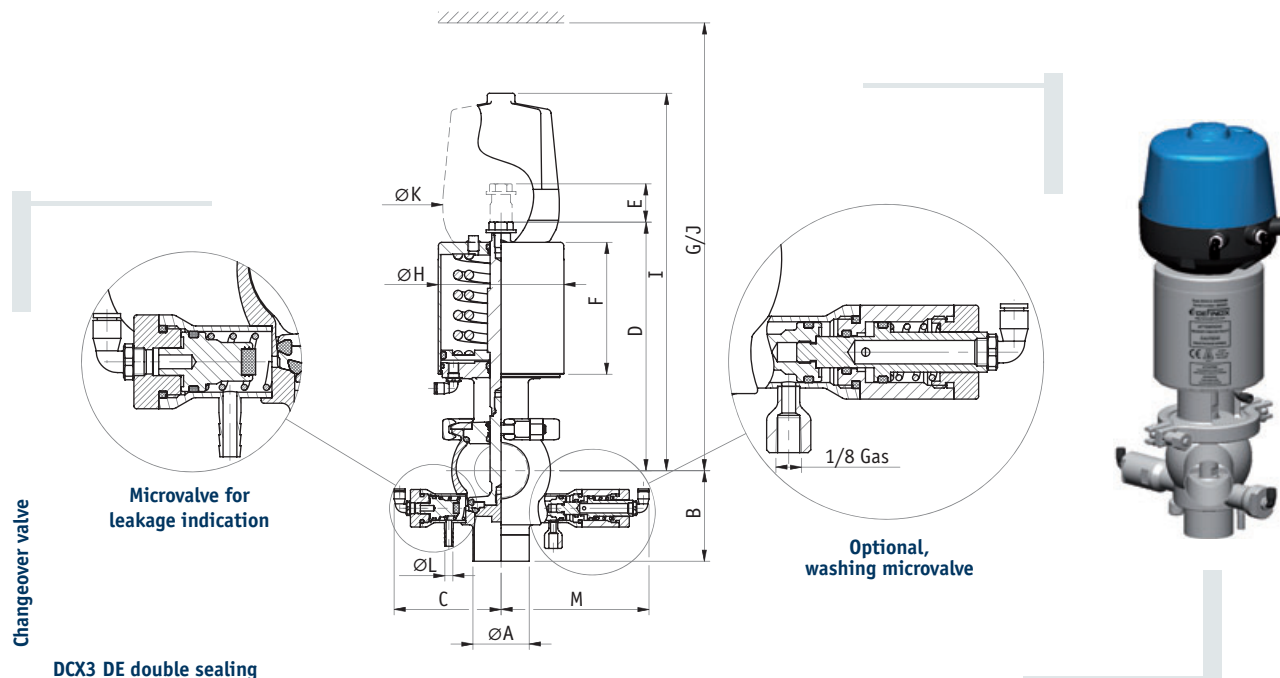
Visible on single or double stainless steel bracket
Point-to-point or AS-i control unit
ICS (from DN 51 to DN 80)
ACS (from DN 51 to DN 104)

SURFACE CONDITIONS

- RA exterior = 1.2 µm (150 grit)
- RA interior = 0.8 µm (180 grit)

SERVICE CONDITIONS

- Max. temperature: +120°C
- Min. temperature: 0°C
- Max. working pressure: 8 bar (800 kPa)
- Actuator air supply pressure:
min. 5.5 bar (550 kPa) - max. 8 bar (800 kPa)
- Vacuum resistance: 0.3 cm³/s



DCX3 DE double sealing

Tube ØA	B	C	D	E (stroke)	F	G (without unit)	ØH	I	J (with unit)	ØK	ØL	M	Weight in kg
SMS 48.5/51	82	97	227	29	123	360	114	342	470	104	8	134	8
SMS 60.3/63.5	105	107	276	35	159	430	167	390	510	104	8	144	17
SMS 72/76	110	113	282	35	159	460	167	397	530	104	8	152	17.5
SMS 100/104	130	127	338	40	181	550	216	463	600	140	8	166	36.5
DIN 50/53	80	97	227	29	123	360	114	342	470	104	8	134	8
DIN 66/70	108	113	279	35	159	460	167	393	530	104	8	152	17.5
DIN 81/85	115	127	288	40	159	470	167	404	540	104	8	166	18
DIN 100/104	130	127	338	40	181	550	216	463	600	140	8	166	37
US 2" (47.5/50.8)	76	97	227	29	123	370	114	342	470	104	8	134	8
US 2 1/2" (60.2/63.5)	76	107	276	35	159	430	167	390	510	104	8	144	17
US 3" (72.9/76.1)	82	113	282	35	159	460	167	397	530	104	8	152	17.5
US 4" (97.4/101.6)	130	127	338	40	181	550	216	463	600	140	8	166	36.5

DCX3 Relief valve

FEATURES

- A predefined pressure enables the main circuit to be off-loaded thus protecting certain equipment or circuits
- Actuator with special spring
- Possibility to add additional air thanks to an unit with a single regulator

SPECIFICATIONS

DIMENSIONS

- SMS - DIN - US
from DN 25 (1") to DN 100 (4")

SERVICE CONDITIONS

- Max. temperature: +140°C
- Min. temperature: -5°C
- Max. working pressure: 8 to 12 bar (800 to 1200 kPa)
depending on the diameter
- Tolerance for pressure adjustment: ±15 %
- Actuator air supply pressure:
min. 5.5 bar (550 kPa) - max. 8 bar (800 kPa)
- Vacuum resistance: 0.4 cm³/s

DCX3 Regulating valve

FEATURES

- Fitted with a positioner enabling the flow, pressure or level to be regulated on all supply fluids using a signal (0)/4/20 mA or 0/10 V
- Profiled plug (without sealing)

SPECIFICATIONS

DIMENSIONS

- SMS - DIN - US
from DN 25 (1") to DN 100 (4")

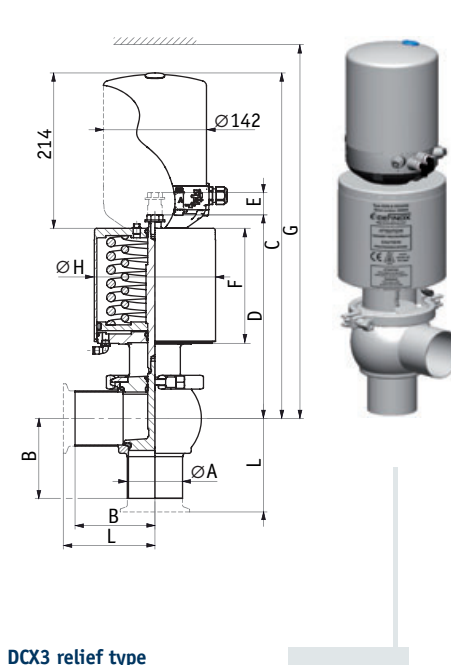
OPTION

Elastomer seal for absolute tightness

SERVICE CONDITIONS

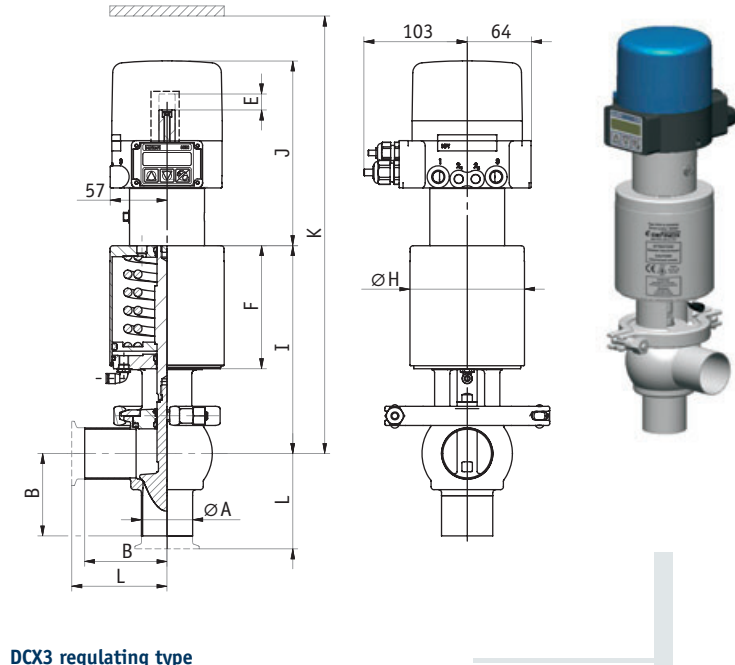
- Max. temperature: +140°C
- Min. temperature: -5°C
- Max. working pressure: 8 bar (800 kPa)
- Actuator air supply pressure:
min. 5.5 bar (550 kPa) - max. 8 bar (800 kPa)
- Vacuum resistance: 0.7 cm³/s

Changeover valve



DCX3 relief type

Changeover valve



DCX3 regulating type

DIMENSIONS (STANDARD)						RELIEF VALVE				REGULATING VALVE			
Tube ØA	B	E (stroke)	F	ØH	L	C	D	G (with unit)	Weight in kg	I	J	K (with unit)	Weight in kg
SMS 22.6/25	55	17	110	89	70	415	193	490	4	170	165	390	5.5
SMS 35.6/38	70	21	110	89	85	422	195	490	4	177	165	400	5.5
SMS 48.5/51	82	29	123	114	97	451	224	520	7	206	185	500	8.5
SMS 60.3/63.5	105	35	159	167	125	501	276	590	16	256	185	560	17.5
SMS 72/76	110	35	159	167	130	507	281	600	16	262	185	590	17.5
SMS 100/104	130	40	181	216	155	557	333	750	28	312	185	660	29.5
DIN 26/28	55	17	110	89	-	415	192	490	4	170	165	390	5.5
DIN 32/34	55	17	110	89	-	420	197	490	4	175	165	400	5.5
DIN 38/40	70	21	110	89	-	422	195	490	4	177	165	400	5.5
DIN 50/53	80	29	123	114	-	451	224	520	7	206	185	500	8.5
DIN 66/70	108	35	159	167	-	503	277	590	16	258	185	570	17.5
DIN 81/85	115	40	159	167	-	548	288	610	27	268	185	580	20.5
DIN 100/104	130	40	181	216	-	557	333	750	28	312	185	660	29.5
US 1" (22.1/25.4)	51	17	110	89	64	415	192	490	4	170	165	390	5.5
US 1 1/2 (34.8/38.1)	57	21	110	89	70	422	195	500	4	177	165	400	5.5
US 2" (47.5/50.8)	76	29	123	114	89	451	224	520	7	206	185	500	8.5
US 2 1/2 (60.2/63.5)	76	35	159	167	89	501	276	590	16	256	185	560	17.5
US 3" (72.9/76.1)	82	35	159	167	95	507	281	600	16	262	185	590	17.5
US 4" (97.4/101.6)	130	40	181	216	146	557	333	750	28	312	185	660	29.5

Tank bottom changeover valves DCX3 FdC



FEATURES

- Body and plug shape provide the tightest seal to the tank wall without retention area
- Same features as standard DCX3 (floating seal - thick body, etc...)
- Two versions: raising or lowering plug

SPECIFICATIONS

DIMENSIONS

- SMS - DIN - US
- from DN 25 (1") to DN 100 (4")

MATERIALS

- Body: stainless steel 316L
- Shut-off unit: stainless steel 316L
- Flange: stainless steel 316L
- Plug seal: PFA
- Body seal: EPDM - fluorinated elastomer (FKM) or silicon
- Actuator: stainless steel 304

CONNECTIONS

- On tank with special welded flange

OPTION

- Long stroke actuator for complete disengagement of the plug (recommended for fragile or inconsistent products)

SIGNALLING EQUIPMENT

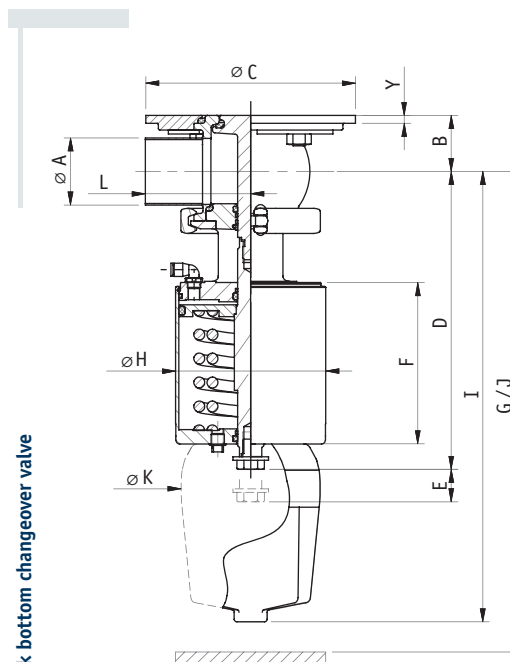
- Visible on single or double stainless steel bracket
- Point-to-point or AS-i control unit
- ICS (from DN 25 to DN 76)
- ACS (from DN 25 to DN 104)

SURFACE CONDITIONS

- RA exterior = 1.2 µm (150 grit)
- RA interior = 0.8 µm (180 grit)

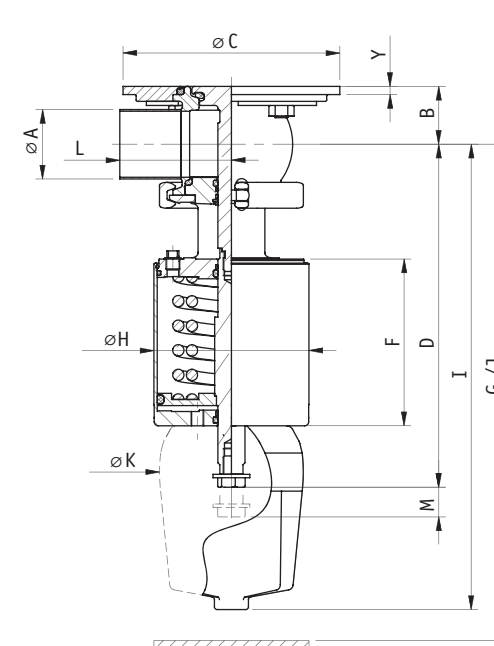
SERVICE CONDITIONS

- Max. temperature: +140°C
- Min. temperature: -5°C
- Max. working pressure: 7 bar (700 kPa)
- Actuator air supply pressure: min. 5.5 bar (550 kPa) - max. 8 bar (800 kPa)
- Vacuum resistance: 0.4 cm³/s



Tank bottom changeover valve

DCX3 FdC lowering plug



DCX3 FdC raising plug



Tube ØA	B	ØC	D	E	F	G	ØH	I	J	ØK	L	M	Weight
				(lowering plug stroke)		(without unit)			(with unit)			(raising plug stroke)	in kg
SMS 22.6/25	29.5	139	189	23.5	109.5	300	89	320	450	104	55	21	4.5
SMS 35.6/38	35	139	193.5	25.5	109.5	320	89	327	450	104	70	21	5
SMS 48.5/51	42.5	159	226	29.5	123	360	114	356	470	104	82	19.5	8.5
SMS 60.3/63.5	48.5	189	275.5	35	159	420	167	406	520	104	105	20.5	15
SMS 72/76	55	189	282	35	159	450	167	412	530	104	110	20	15.4
SMS 100/104	75	249	337	40	181	600	216	462	700	140	130	20	47
DIN 26/28	30.5	139	191.5	22.5	109.5	300	89	320	450	104	55	20.5	4.5
DIN 32/34	33.5	139	192	25.5	109.5	300	89	325	450	104	55	28	4.7
DIN 38/40	36	139	194	26	109.5	300	89	327	450	104	70	28	5.2
DIN 50/53	42.5	159	226	29.5	123	360	114	356	470	104	80	28	8.4
DIN 66/70	52	189	279	34.5	159	460	167	408	530	104	108	35	15
DIN 81/85	65	249	288	39.5	159	470	167	419	540	104	115	35	29
DIN 100/104	75	249	337	40	181	600	216	462	700	140	130	34.5	47
US 1" (22.1/25.4)	29.5	139	189	23.5	109.5	300	89	320	450	104	51	35	4.5
US 1 1/2" (34.8/38.1)	35	139	193.5	25.5	109.5	320	89	327	450	104	57	35	5
US 2" (47.5/50.8)	42.5	159	226	29.5	123	360	114	356	470	104	76	39.5	8.5
US 2 1/2" (60.2/63.5)	48.5	189	275.5	35	159	420	167	406	520	104	76	39.5	15
US 3" (72.9/76.1)	55	189	282	35	159	450	167	412	530	104	82	39.5	15.4
US 4" (97.4/101.6)	75	249	337	40	181	600	216	462	700	140	130	39.5	47

Tank bottom mixproof valve VDCI FdC

FEATURES

- Isolates the tank from the rest of the process circuit
- Body and plug shape provide the tightest seal to the tank wall, without retention area
- Same features as VDCI MC (floating seal - thick body, etc...)
- Leakage chamber washed by pulsing the lower plug

SPECIFICATIONS

DIMENSIONS

- SMS - DIN - US
- from DN 51 (2") to DN 100 (4")

MATERIALS

Body:	stainless steel 316L
Shut-off unit:	stainless steel 316L
Plug seal:	PFA
Other seals:	EPDM - fluorinated elastomer (FKM)
Actuator:	stainless steel 304

CONNECTIONS

On tank with special welded flange

OPTION

Steam bearing stem

SIGNALLING EQUIPMENT

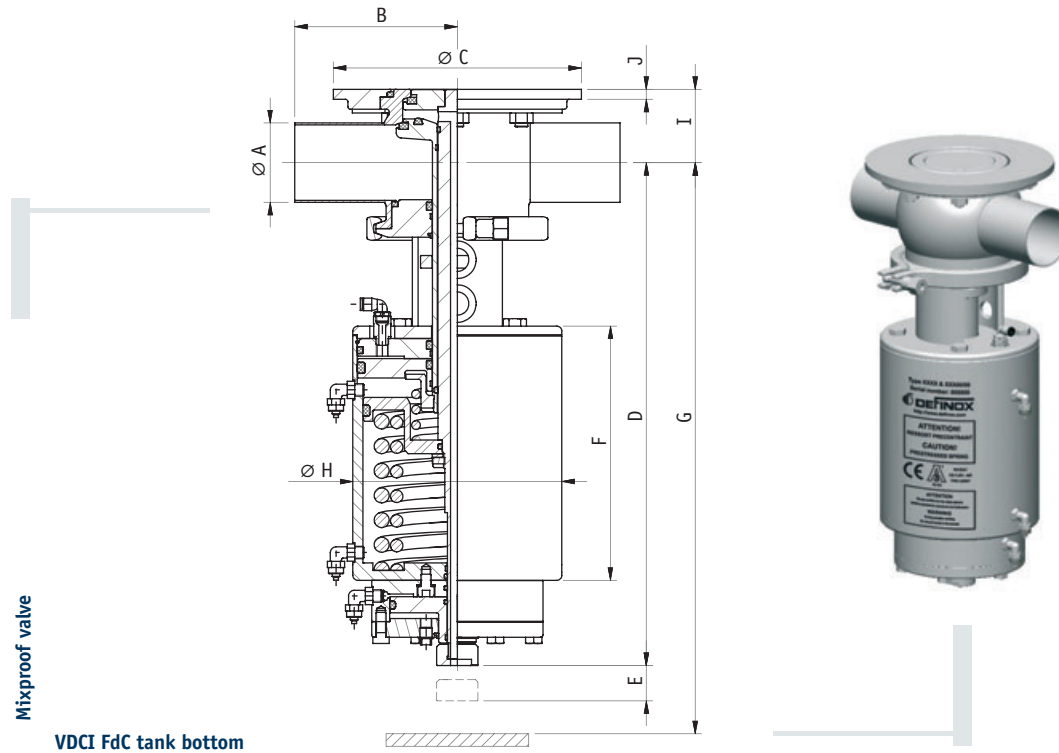
Lantern detection and cabinet control solenoid valves

SURFACE CONDITIONS

- RA exterior = 1.2 µm (150 grit)
- RA interior = 0.8 µm (180 grit)

SERVICE CONDITIONS

- Max. temperature: +140°C
- Temperature differential between the upper line and the lower line: max. +90°C
- Min. temperature: -5°C
- Max. working pressure permissible in the tank: 4 bar (400 kPa)
- Max. working pressure in the valve: 7 bar (700 kPa)
- Actuator air supply pressure: min. 5.5 bar (550 kPa) - max. 8 bar (800 kPa)
- Vacuum resistance: 0.4 cm³/s



Mixproof valve

VDCI FdC tank bottom

Tube ØA	B	ØC	D	E (stroke)	F	G	ØH	I	J	Weight in kg
SMS 48.5/51	105	178	363	34	179	465	128	49	8	20
SMS 60.3/63.5	130	198	406	40	204	520	167	58	8	35
SMS 72/76	130	198	413	40	204	540	167	64	8	40
SMS 100/104	155	268	471	49	234	635	218	78	10	75
DIN 50/53	105	178	363	34	179	465	128	49	8	20
DIN 66/70	130	198	408	40	204	530	167	61	8	40
DIN 81/85	155	268	461	49	234	625	218	68	10	66
DIN 100/104	155	268	471	49	234	635	218	78	10	75
US 2" (47.5/50.8)	105	178	363	34	179	465	128	49	8	20
US 2 1/2" (60.2/63.5)	130	198	406	40	204	520	167	58	8	35
US 3" (72.9/76.1)	130	198	413	40	204	540	167	64	8	40
US 4" (97.4/101.6)	155	268	471	49	234	635	218	78	10	75

Mixproof valve VDCI MC PFA

FEATURES

- Standard solid machined compact actuator for all versions
- Reduced disassembly and assembly times for the actuator
- Plugs can be removed from the lantern making maintenance much easier
- Volume machined body with a new profile guaranteeing excellent resistance against mechanical and thermal damage
- Counter Balance offering good resistance against pressure hammer
- Improved cleaning of the leakage chamber thanks to the internal plug which has floating seals for easy cleaning and are extremely resistant to chemical attack
- Leak indicator showing any fault in the sealing point between the plugs
- High level of modularity for all options and versions
- Option to accurately detect the movement of each independent plug with our new generation ACS control unit

SPECIFICATIONS

DIMENSIONS

- SMS - DIN - US from DN 38 (1" 1/2) to DN 125 (5")

MATERIALS

Body:	stainless steel 316L
Shut-off unit:	stainless steel 316L
Plug seal:	PFA
Other seals:	EPDM - fluorinated elastomer (FKM)
Actuator:	stainless steel 304

CONNECTIONS

CONNECTION TYPES	STANDARDS
Welded	SMS - DIN - US standard
Threaded	SMS - DIN
Liner-nut	SMS - DIN
Clamp	US standard

OPTION

Sterilisation of the stem and counter balancer by the upper and lower bearings

SIGNALLING EQUIPMENT

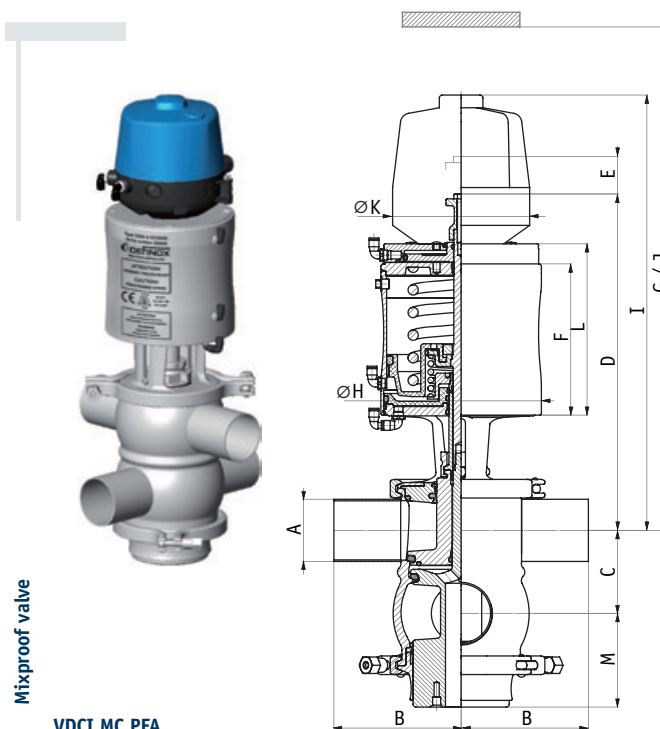
Visible on double stainless steel bracket
Point-to-point or AS-i control unit
ACS (from DN 25 to DN 125)
Option: lantern detector for breakaway of the upper plug

SURFACE CONDITIONS

- RA exterior = 1.2 µm (150 grit)
- Interior RA = 0.8 µm (180 grit)

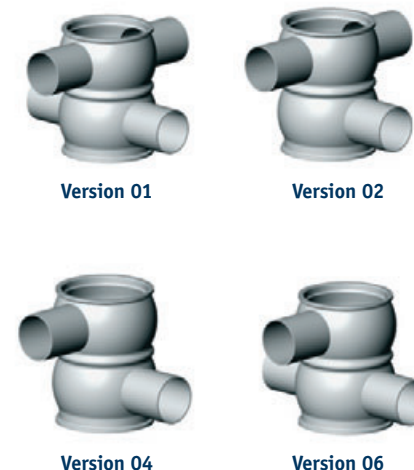
SERVICE CONDITIONS

- Operating temperature: -5 to +130°C
- Sterilisation temperature: +140°C
- Max. working pressure: 9 bar (900 kPa)
Except during the cleaning
7 bar (700 kPa)
- Actuator air supply pressure: 5 to 7 bar (500 to 700 kPa)
with the ACS unit
up to 8 bar (800 kPa)
with direct supply



Mixproof valve

VDCI MC PFA



Main body configurations

Other configurations available on request

Tube ØA	B	C	D	E (stroke)	F	G (without unit)	ØH	I	J (with unit)	ØK	L	M	Weight in kg
SMS 35.6/38	105	55	279	26	126	329	128	379	429	140	145	80	14.5
SMS 48.5/51	105	70	287	35	126	377	128	387	477	140	145	88	15
SMS 60.3/63.5	130	85	333	45	156	477	164	433	577	140	175	103	28.5
SMS 72/76	130	95	340	45	156	488	164	440	588	140	175	110	30
SMS 100/104	155	125	418	62	196	645	218	518	745	140	215	141	61.5
DIN 38/40	105	60	280	26	126	330	128	380	430	140	145	81	14.5
DIN 50/53	105	70	287	35	126	377	128	387	477	140	145	88	15
DIN 66/70	130	90	337	45	156	473	164	437	573	140	175	106	29
DIN 81/85	155	110	344	45	156	514	164	444	614	140	175	113	31
DIN 100/104	155	125	418	62	196	645	218	518	745	140	215	141	62
DIN 125/129	200	155	431	62	196	712	218	531	812	140	215	152	67
US 1"1/2 (34.8/38.1)	105	55	280	26	126	330	128	380	430	140	145	80	14.5
US 2" (47.5/50.8)	105	70	287	35	126	377	128	387	477	140	145	88	15
US 2"1/2 (60.2/63.5)	130	85	333	45	156	477	164	433	577	140	175	103	28.5
US 3" (72.9/76.1)	130	95	340	45	156	488	164	440	588	140	175	110	30
US 4" (97.4/101.6)	155	125	418	62	196	645	218	518	745	140	215	141	62

FEATURES

- Versions based on the same model as VDCI MC PFA
- **VDCI MC SP** leak-free opening: Sliding plug seal guaranteeing complete tightness and avoiding product loss on opening
- **VDCI MC PMO** "Pasteurized Milk Ordinance": leakage section identical to that used in the tubular process

SPECIFICATIONS

DIMENSIONS

- SMS - DIN - US
- from DN 38 (1" 1/2) to DN 125 (5")

MATERIALS

- Body: stainless steel 316L
- Shut-off unit: stainless steel 316L
- Plug seal: EPDM - fluorinated elastomer (FKM)
- Valve seal: EPDM - fluorinated elastomer (FKM)
- Actuator: stainless steel 304

CONNECTIONS

- | | |
|------------------|-------------------------|
| CONNECTION TYPES | STANDARDS |
| To weld | SMS - DIN - US standard |
| Threaded | SMS - DIN |
| Liner-nut | SMS - DIN |
| Clamp | US standard |

OPTION

Sterilisation of the stem and counter balancer by the upper and lower bearings

SIGNALLING EQUIPMENT

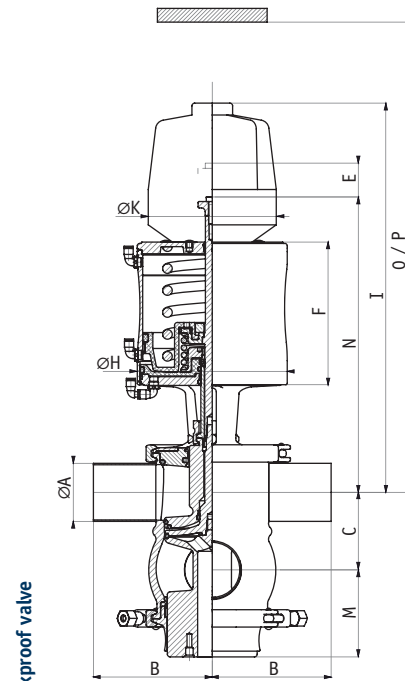
Visible on single or double stainless steel bracket
Point-to-point or AS-i control unit
ACS (from DN 25 to DN 125)
Option: lantern detector for breakaway of the upper plug

SURFACE CONDITIONS

- RA exterior = 1.2 µm (150 grit)
- RA interior = 0.8 µm (180 grit)

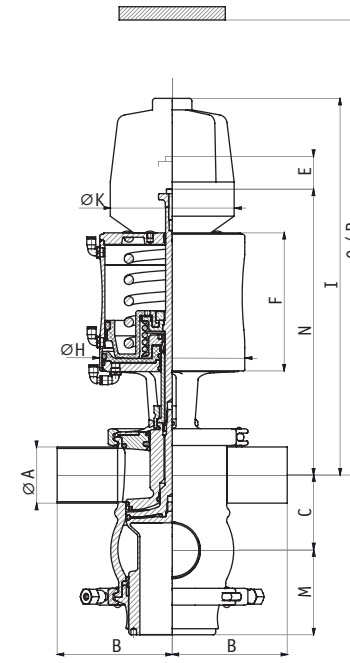
SERVICE CONDITIONS

- Operating temperature: -5 to +120°C
- Sterilisation temperature: +130°C
- Max. working pressure: 9 bar (900 kPa)
Except during the cleaning
7 bar (700 kPa)
- Actuator air supply pressure:
5 to 7 bar (500 to 700 kPa)
with the ACS unit
up to 8 bar (800 kPa)
with direct supply



Mixproof valve

VDCI MC SP



Mixproof valve

VDCI MC PMO



Tube ØA	B	C	D	E	F	G	ØH	I	J	ØK	L	M	N	O	P	Weight in Kg	
				(stroke)		(without unit)			(with unit)					(without unit)	(with unit)	SP	PMO
SMS 35.6/38	105	55	279	26	126	329	128	379	429	140	145	80	275	325	425	13	-
SMS 48.5/51	105	70	287	35	126	377	128	387	477	140	145	88	282	372	472	13.5	-
SMS 60.3/63.5	130	85	333	45	156	477	164	433	577	140	175	103	323	449	549	25.5	-
SMS 72/76	130	95	340	45	156	488	164	440	588	140	175	110	330	480	580	27.5	-
SMS 100/104	155	125	418	62	196	645	218	518	745	140	215	141	408	635	735	59	-
DIN 38/40	105	60	280	26	126	330	128	380	430	140	145	81	276	333	433	13	-
DIN 50/53	105	70	287	35	126	377	128	387	477	140	145	88	283	373	473	13.5	-
DIN 66/70	130	90	337	45	156	473	164	437	573	140	175	106	326	463	563	26.5	-
DIN 81/85	155	110	344	45	156	514	164	444	614	140	175	113	333	505	605	28	-
DIN 100/104	155	125	418	62	196	645	218	518	745	140	215	141	408	635	735	59	-
DIN 125/129	200	155	431	62	196	712	218	531	812	140	215	152	421	703	803	63	-
US 1"1/2 (34.8/38.1)	105	55	280	26	126	330	128	380	430	140	145	80	275	325	425	13	12.5
US 2" (47.5/50.8)	105	70	287	35	126	377	128	387	477	140	145	88	282	372	472	13.5	13
US 2"1/2 (60.2/63.5)	130	85	333	45	156	477	164	433	577	140	175	103	323	449	549	26	24
US 3" (72.9/76.1)	130	95	340	45	156	488	164	440	588	140	175	110	330	480	580	27.5	24.5
US 4" (97.4/101.6)	155	125	418	62	196	645	218	518	745	140	215	141	408	635	735	59	53.5

Ball valves DBX - DBAX

FEATURES

- Valves used for auxiliary circuits
- Available with full or reduced port

SPECIFICATIONS

DIMENSIONS

- Full port from DN8 to DN50
- Reduced port from DN 15 to DN 65

MATERIALS

Stainless steel 316L and PTFE

CONNECTIONS

CONNECTION TYPES	STANDARDS
To weld	ISO - SMS - DIN

OPERATING DEVICES

MANUAL - DBX

Right or left opening standard handle

AUTOMATIC - DBAX

Fitted with pneumatic DPAX butterfly valve actuator

SIGNALLING EQUIPMENT

Visible on single or double stainless steel bracket

Point-to-point or AS-i control unit

ICS (from DN 8 to DN 65)

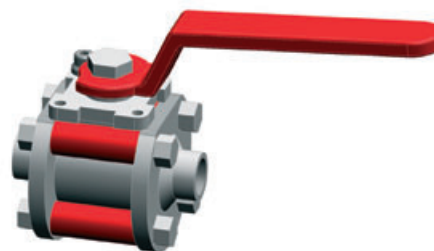
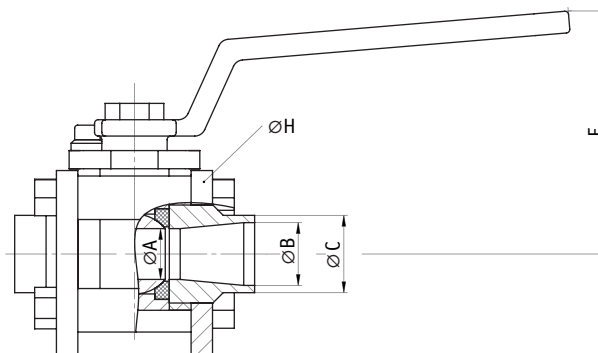
ACS (from DN 8 to DN 65)

SERVICE CONDITIONS

- Max. temperature: +160°C
- Min. temperature: -30°C
- Max. working pressure: 20 bar (2000 kPa)
- Actuator air supply pressure: min. 5.5 bar (550 kPa) – max. 8 bar (800 kPa)

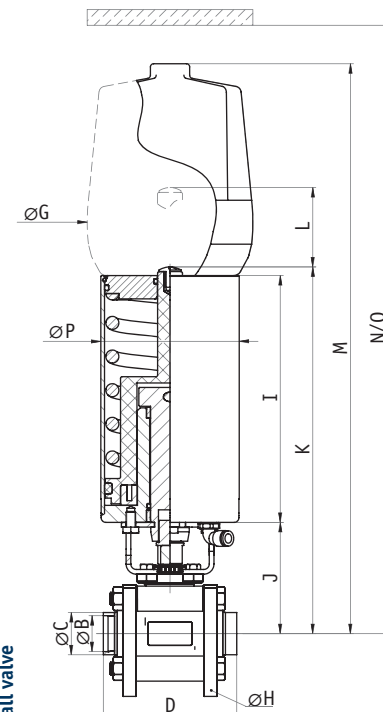
Ball valve

DBX manual



Ball valve

DBAX automatic



Full port Ø ISO	ØA	ØB	ØC	D	E	F	ØG	ØH	I	J	K	L (stroke)	M (without unit)	N (with unit)	O (with unit)	ØP	Weight in Kg	
																	DBX	DBAX
Ø8	11.1	9.5	13.5	65	70	120	104	56	157	58	221	49	350	290	380	89	0.7	4.1
Ø12	11.1	13.2	17.2	65	70	120	104	56	157	58	221	49	350	290	380	89	0.7	4.1
Ø15	14	17.3	21.3	70	73	120	104	63	157	61	224	49	353	293	383	89	0.8	4.2
Ø20	19	22.9	26.9	85	91	160	104	80	157	71	234	49	363	303	393	89	1.6	5
Ø25	25	29.7	33.7	100	95	160	104	88	157	75	238	49	367	307	397	89	2.1	5.5
Ø32	32	37.2	42.4	110	111	190	104	104	157	93	256	49	385	325	415	89	3.3	6.7
Ø40	38	43.1	48.3	125	116	190	104	117	157	98	261	49	390	330	420	89	4.3	7.7
Ø50	50	54.5	60.3	150	137	230	104	148	174	119	282	51	411	353	441	114	8.7	12.1
Reduced port Ø ISO																		
Ø15	11.1	17.3	21.3	65	70	120	104	56	157	58	221	49	350	290	380	89	0.7	4.1
Ø20	14	22.9	26.9	70	73	120	104	63	157	61	224	49	353	293	383	89	0.8	4.2
Ø25	19	29.7	33.7	85	91	160	104	80	157	71	234	49	363	303	393	89	1.6	5
Ø32	25	37.2	42.4	100	95	160	104	88	157	75	238	49	367	307	397	89	2.1	5.5
Ø40	32	43.1	48.3	110	111	190	104	104	157	93	256	49	385	325	415	89	3.1	6.5
Ø50	38	54.5	60.3	125	116	190	104	117	157	98	261	49	390	330	420	89	4.3	7.7
Ø65	50	70.3	76.1	150	137	230	104	148	174	119	282	51	411	353	441	114	8.6	12

NON-RETURN VALVE

- Non-return valve with full bore
- Quick disassembly using an SMS type nut

SPECIFICATIONS

DIMENSIONS

- SMS - DIN - US
from DN 1/2" to DN 125 (5")

MATERIALS

Body - plug - spring:	stainless steel 316L
Plug seal:	PFA
Seal:	fluorinated elastomer (FKM) - EPDM - PFA

CONNECTIONS

TYPES OF CONNECTION	STANDARD
Welded	SMS - DIN - US standard
Threaded	SMS - DIN
Liner-nut	SMS - DIN
Clamp	US standard

OPTION

Metal/metal tightness (requiring pairing)

SERVICE CONDITIONS

- Max. temperature:** +120°C **■ Min. temperature:** 0°C
■ Max. working pressure: 10 bar (1000 kPa)
■ Counterpressure: 90 mbar

PRESSURE VACUUM VALVE

- Manual forced opening device for 4" version

SPECIFICATIONS

DIMENSIONS

- CLAMP DN 2" and 2"1/2
- CLAMP DN 4"

MATERIALS

Valve:	stainless steel 316L
Pressure plug:	PTFE
Seal:	fluorinated elastomer (FKM) - silicon

CONNECTIONS

Clamp

SERVICE CONDITIONS

- Max. temperature: +80°C ■ Min. temperature: 0°C
 ■ Vacuum: 30 mbar
 ■ Pressure: 0.2 to 2 bar depending on spring

PRESSURE RELIEF VALVE

- Easy disassembly using an SMS type nut
- Sealing option for a pre-established setting

SPECIFICATIONS

DIMENSIONS

- DN 1" 1/2 and 2"

MATERIALS

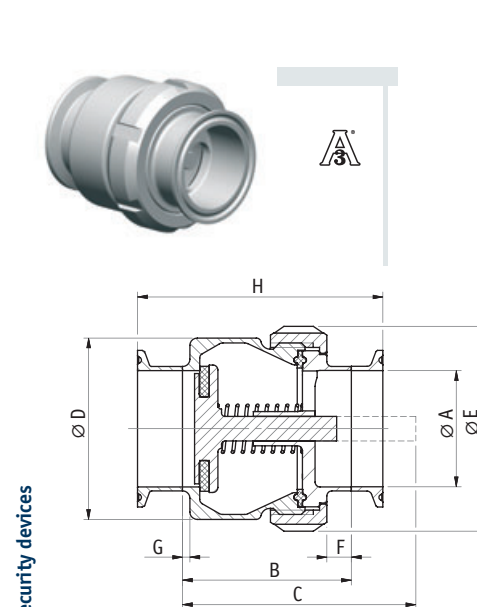
Body and plug:	stainless steel 316L
Seal:	fluorinated elastomer (FKM) - EPDM
Adjusting device:	stainless steel 304

CONNECTIONS

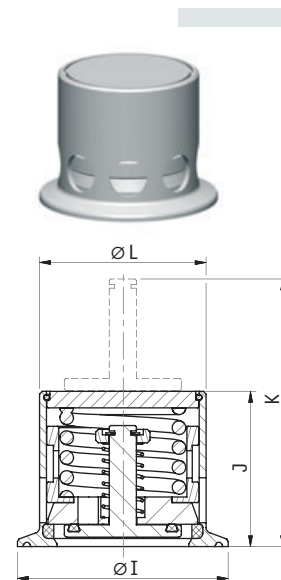
Welded SMS - DIN - US standard

SERVICE CONDITIONS

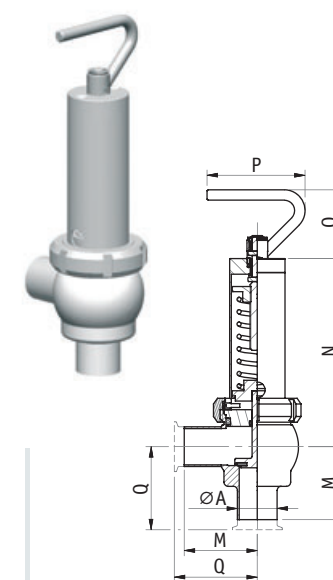
- Max. temperature: +120°C ■ Min. temperature: 0°C
■ Adjustment range: 0 to 13 bar (1300 kPa)



Non-return valve



Pressure/vacuum valve



Pressure relief valve

TUBE ØA	NON-RETURN VALVE								PRESSURE/VACUUM VALVE					PRESSURE RELIEF VALVE					
	B	C (release)	ØD	ØE	F	G	H	Weight in kg	ØI	J	K	ØL	Weight in kg	M	N	O	P	Q	Weight in kg
SMS 22.6/25	74.5	107	59.5	70	13	9	100.5	0.65	-	-	-	-	-	-	-	-	-	-	-
SMS 30/32	70.5	107	59.5	70	9	9	96.5	0.55	-	-	-	-	-	-	-	-	-	-	-
SMS 35.6/38	70.5	107	59.5	70	9	9	96.5	0.82	-	-	-	-	-	-	-	-	-	-	-
SMS 48.5/51	74.5	115	74	84	10	9	100.5	1.1	-	-	-	-	-	-	-	-	-	-	-
SMS 60.3/63.5	108.5	158	110	114	14	10	134.5	2.66	-	-	-	-	-	-	-	-	-	-	-
SMS 72/76	104.5	158	110	114	10	10	130.5	2.31	-	-	-	-	-	-	-	-	-	-	-
SMS 100/104	123.5	201	148	148	11	11	154.5	4.4	-	-	-	-	-	-	-	-	-	-	-
DIN 26/28	74.5	107	59.5	70	13	9	100.5	0.6	-	-	-	-	-	-	-	-	-	-	-
DIN 38/40	65.5	102	59.5	70	9	9	91.5	1	-	-	-	-	-	-	-	-	-	-	-
DIN 50/53	74.5	115	74	84	10	9	100.5	1.05	-	-	-	-	-	-	-	-	-	-	-
DIN 66/70	104.5	158	110	114	10	10	130.5	2.63	-	-	-	-	-	-	-	-	-	-	-
DIN 81/85	127.5	201	148	148	15	11	153.5	3.82	-	-	-	-	-	-	-	-	-	-	-
DIN 100/104	123.5	201	148	148	11	11	154.5	4.4	-	-	-	-	-	-	-	-	-	-	-
DIN 125/129	141.5	229	178	178	9	11	172.5	5.6	-	-	-	-	-	-	-	-	-	-	-
US 1/2" (9.4/12.7)	48.5	71	40	49.5	6	5	74.5	0.3	-	-	-	-	-	-	-	-	-	-	-
US 3/4" (15.75/19.05)	48.5	71	40	49.5	6	5	74.5	0.3	-	-	-	-	-	-	-	-	-	-	-
US 1" (22.1/25.4)	74.5	107	59.5	70	13	9	100.5	0.65	-	-	-	-	-	-	-	-	-	-	-
US 1 1/2 (34.8/38.1)	70.5	107	59.5	70	9	9	96.5	0.82	-	-	-	-	-	70	180	65	100	85	2.7
US 2" (47.5/50.8)	74.5	115	74	84	10	9	100.5	1.1	64	70	112	61	0.6	82	250	65	100	97	3.9
US 2 1/2 (60.2/63.5)	108.5	158	110	114	14	10	134.5	2.66	77.5	57	99	61	0.55	-	-	-	-	-	-
US 3" (72.9/76.1)	104.5	158	110	114	10	10	130.5	2.31	-	-	-	-	-	-	-	-	-	-	-
US 4" (97.4/101.6)	123.5	201	148	148	11	11	154.5	4.43	119	151	270	119	4.1	-	-	-	-	-	-

FEATURES

OPTIMISED APPLICATION

- A modular design
- Easy handling
- A user-friendly interface
- Quick-fitting electric and pneumatic connections

ADDITIONAL FUNCTIONS

- A relief valve
- Optional linear sensor to detect plug operations
- Various electronic modules
- Easy assembly and disassembly

NEWS

- Simplified air circuit
- Threaded pneumatic connections on the base of the control top

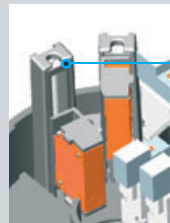
2 RANGES FOR ALL TYPES OF VALVES

■ ACS (Advanced Control System)

The ACS control top covers:
DPAX range of butterfly valve from DN 25 to DN 150
DCX range of changeover valve from DN 25 to DN 150
DMX range of diaphragm valve from DN 25 to DN 50
VDCI MC range of mixproof valve from DN 38 to DN 150

■ ICS (Integrated Control System)

The ICS control top covers:
DPAX range of butterfly valve from DN 25 to DN 150
DCX range of changeover valve from DN 10 to DN 80
DMX range of diaphragm valve from DN 25 to DN 50



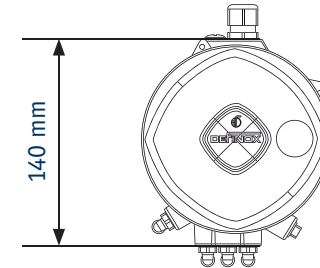
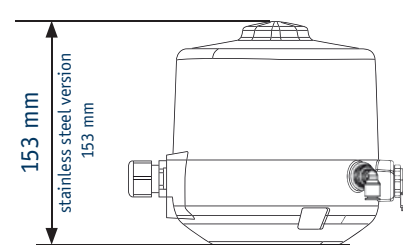
TOR sensors



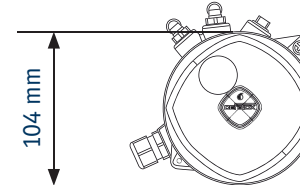
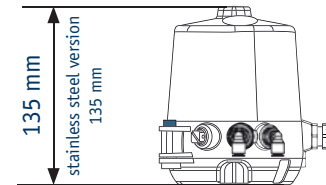
Linear sensor

Accurate detection

Unit
ACS



Unit
ICS



For
choice

SPECIFICATIONS	ACS unit	ICS unit
Stainless steel cover	Yes, optional	Yes, optional
Relief valve	Yes	Yes
Point-to-point connections	24-48V AC/DC	24-48V AC/DC
Multi-voltage modules	PNP/NPN retro data	PNP/NPN retro data
AS-i connections	AS-i 2.1 or AS-i 2.0	AS-i 2.1 or AS-i 2.0
Sensors	2 TOR sensors with fine adjustment or 1 linear sensor	2 TOR sensors
Linear sensor	Resolution 0.2 mm Manual calibration Stroke 80 mm	No
External sensor	Yes	No
Electrical consumption (1 SV and 1 sensor activated)	< 70 mA in AS-i < 50 mA in 24V DC	< 70 mA in AS-i < 50 mA in 24V DC
Solenoid valves	1 to 3 SV 3/2 or 1 SV 5/2 (24V DC)	1 SV 3/2 (24V DC)
Pneumatic functions	NC - NO and DA	NC - NO
Pneumatic connections	Quick 4/6	Quick 4/6
Air quality	Dry air filtered to 10µm 500 to 700 kPa (5 to 7 bar)	Dry air filtered to 10µm 500 to 700 kPa (5 to 7 bar)
Display for version with module	Yellow LEDs (3 or 7): I/O Red LED (1): faults Green LED (1): power supply	Yellow LEDs (3): I/O Red LED (1): faults Green LED (1): power supply
Operating temperature	0°C - +70°C	0°C - +70°C
Protection index	IP67	IP67



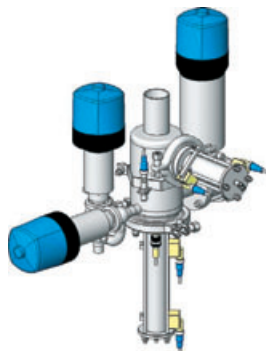
User interface

40 YEARS OF PARTNERSHIP
WITH THE FOOD,
PHARMACEUTICAL AND
COSMETIC INDUSTRIES

**we develop
customized
systems adapted
to your process.**

MANIFOLD
SCRAPING SYSTEM
TANK EQUIPMENT
CIP OZONE
BLENDER OR MICRO-BLENDER
FILTER
...

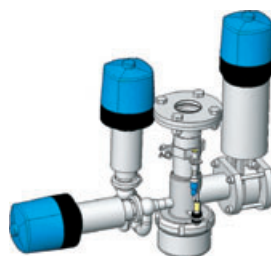
Scraping system



Scraping station crossing body
DN 51 SMS



We bring you
innovative solutions



Scraping station no crossing body
with absorber DN 51 SMS



**DEFINOX**

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