

Mixproof valve VDCI MC PFA

The operating conditions are given for information. Some combinations of extreme operating conditions are not always suitable. It is highly recommended to ask for advice from our technical department.

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 1.4404 / 316L
 Shut-off unit: stainless steel 1.4404 / 316L
 Plug seal: PFA
 Other seals: EPDM - fluorinated elastomer (FKM)
 Actuator: stainless steel 1.4301 / 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

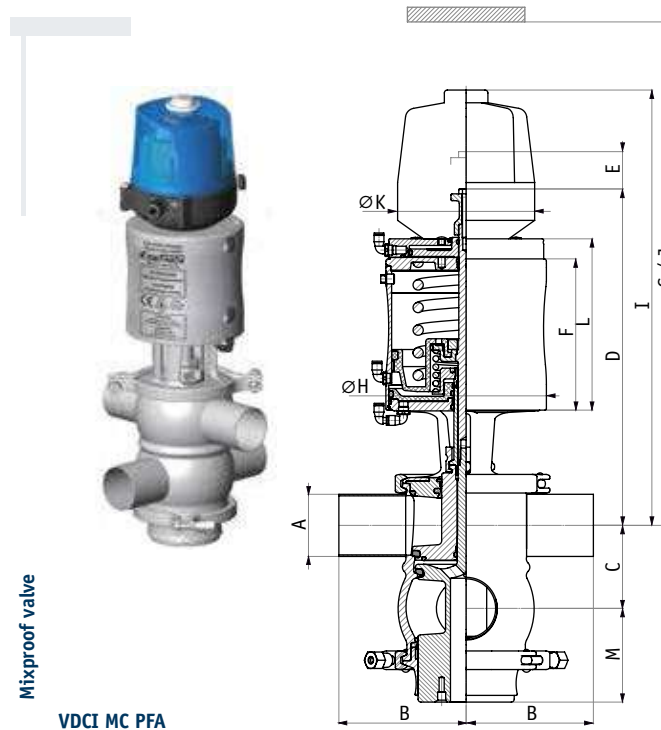
- Visible on single or double stainless steel bracket
- Point-to-point or AS-i control unit
- ACS (from DN 25 to DN 125)
- Option: lantern detector for breakaway of the upper plug

SURFACE CONDITIONS

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

SERVICE CONDITIONS

- Operating temperature: - 5 to + 130°C/+ 23°F to + 266°F
- Sterilisation temperature: + 140°C/+ 284°F
- Max. working pressure: 9 bar (131 psi) (900 kPa) Except during the cleaning 7 bar (700 kPa)/102 psi
- Actuator air supply pressure: 5.5 to 7 bar (500 to 700 kPa)/80 to 102 psi with the ACS unit up to 8 bar (800 kPa)/116 psi with direct supply



Main body configurations

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	401	451	140	145	80	14.5
SMS 48.5/51	105	70	287	35	126	377	128	409	499	140	145	88	28.5
SMS 60.3/63.5	130	85	333	45	156	477	164	455	599	140	175	103	30
SMS 72/76	130	95	340	45	156	488	164	462	610	140	175	110	61.5
SMS 100/104	155	125	418	62	196	645	218	530	767	140	215	141	14.5
DIN 38/41	105	60	280	26	126	330	128	402	452	140	145	81	15
DIN 50/53	105	70	287	35	126	377	128	409	499	140	145	88	29
DIN 66/70	130	90	337	45	156	473	164	459	595	140	175	106	31
DIN 81/85	155	110	344	45	156	514	164	466	636	140	175	113	62
DIN 100/104	155	125	418	62	196	645	218	530	767	140	215	141	67
DIN 125/129	200	155	431	62	196	712	218	553	834	140	215	152	14.5
US 1"1/2 (34.8/38.1)	105	55	280	26	126	330	128	402	452	140	145	80	15
US 2" (47.5/50.8)	105	70	287	35	126	377	128	409	499	140	145	88	28.5
US 2"1/2 (60.2/63.5)	130	85	333	45	156	477	164	455	599	140	175	103	30
US 3" (72.9/76.1)	130	95	340	45	156	488	164	462	610	140	175	110	61.5
US 4" (97.4/101.6)	155	125	418	62	196	645	218	530	767	140	215	141	62

Other configurations available on request

Mixproof valves VDCI MC SP-C/PMO-C

The operating conditions are given for information. Some combinations of extreme operating conditions are not always suitable. It is highly recommended to ask for advice from our technical department.

FEATURES

- Versions based on the same model as VDCI MC PFA
- **VDCI MC SP-C** leak-free opening: Sliding plug seal guaranteeing complete tightness and avoiding product loss on opening
- **VDCI MC PMO-C** "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 1.4404 / 316L
- Shut-off unit: stainless steel 1.4404 / 316L
- Plug seal: EPDM - fluorinated elastomer (FKM)
- Valve seal: EPDM - fluorinated elastomer (FKM)
- Actuator: stainless steel 1.4301 / 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

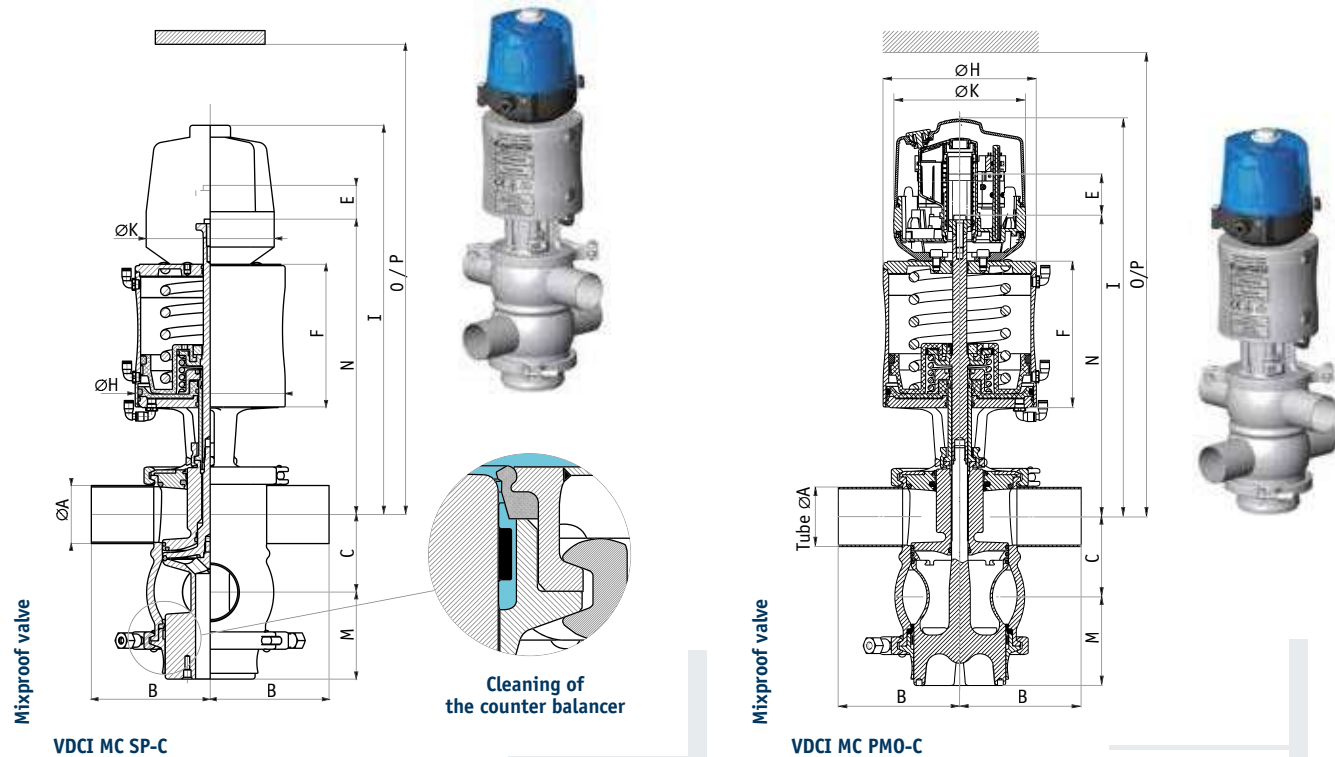
Visible on single or double stainless steel bracket
Point-to-point or AS-i control unit
ACS (from DN 25 to DN 125)
Option: lantern detector for breakaway of the upper plug

SURFACE CONDITIONS

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

SERVICE CONDITIONS

- Operating temperature: - 5 to + 120°C/+ 23°F to + 248°F
- Sterilisation temperature: + 130°C/+ 266°F
- Max. working pressure: 9 bar (900 kPa)/131 psi
Except during the cleaning
7 bar (700 kPa)/102 psi
- Actuator air supply pressure:
5.5 to 7 bar (500 to 700 kPa)/80 to 102 psi
with the ACS unit
up to 8 bar(800 kPa)/116 psi
with direct supply



Tube ØA	B	C	D	E (stroke)	F	ØH	I	ØK	L	M	N	O		P		Weight in Kg	
												(without unit)	(with unit)	SP-C	PMO-C		
SMS 35.6/38	105	55	279	26	126	128	401	140	145	80	275	325	477	13	-	-	-
SMS 48.5/51	105	70	287	35	126	128	409	140	145	88	282	372	494	13.5	-	-	-
SMS 60.3/63.5	130	85	333	45	156	164	455	140	175	103	323	449	571	25.5	-	-	-
SMS 72/76	130	95	340	45	156	164	462	140	175	110	588	480	602	27.5	-	-	-
SMS 100/104	155	125	418	62	196	218	530	140	215	141	408	635	755	59	-	-	-
DIN 38/41	105	60	280	26	126	128	402	140	145	81	276	333	455	13	-	-	-
DIN 50/53	105	70	287	35	126	128	409	140	145	88	283	373	495	13.5	-	-	-
DIN 66/70	130	90	337	45	156	164	459	140	175	106	326	463	585	26.5	-	-	-
DIN 81/85	155	110	344	45	156	164	466	140	175	113	333	505	627	28	-	-	-
DIN 100/104	155	125	418	62	196	218	530	140	215	141	408	635	757	59	-	-	-
DIN 125/129	200	155	431	62	196	218	553	140	215	152	421	703	825	63	-	-	-
US 1"1/2 (34.8/38.1)	105	55	280	26	126	128	402	140	145	80	275	325	477	13	12.5	-	-
US 2" (47.5/50.8)	105	70	287	35	126	128	409	140	145	88	282	372	494	13.5	13	-	-
US 2"1/2 (60.2/63.5)	130	85	333	45	156	164	455	140	175	103	323	449	571	26	24	-	-
US 3" (72.9/76.1)	130	95	340	45	156	164	462	140	175	110	330	480	602	27.5	24.5	-	-
US 4" (97.4/101.6)	155	125	418	62	196	218	530	140	215	141	408	635	755	59	53.5	-	-

