

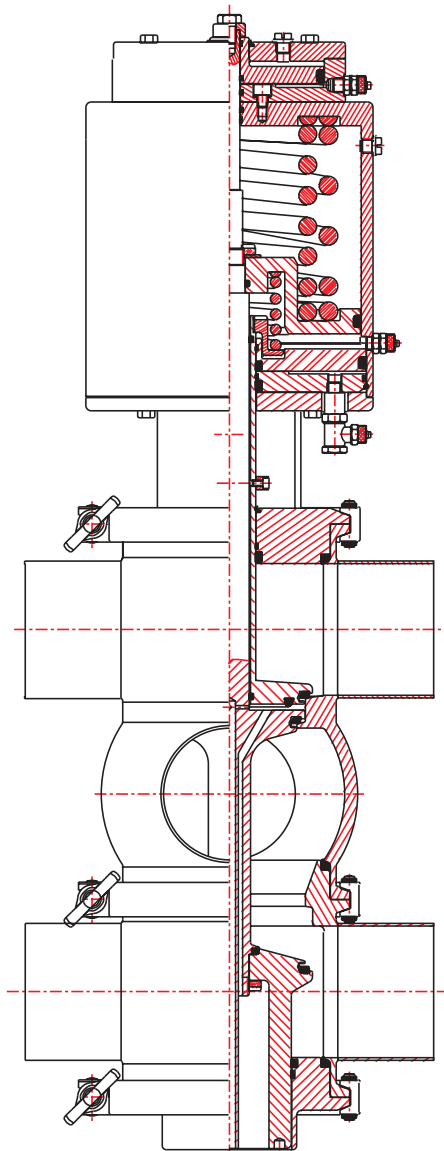
# VDCI mixproof valve 3 bodies

## Design

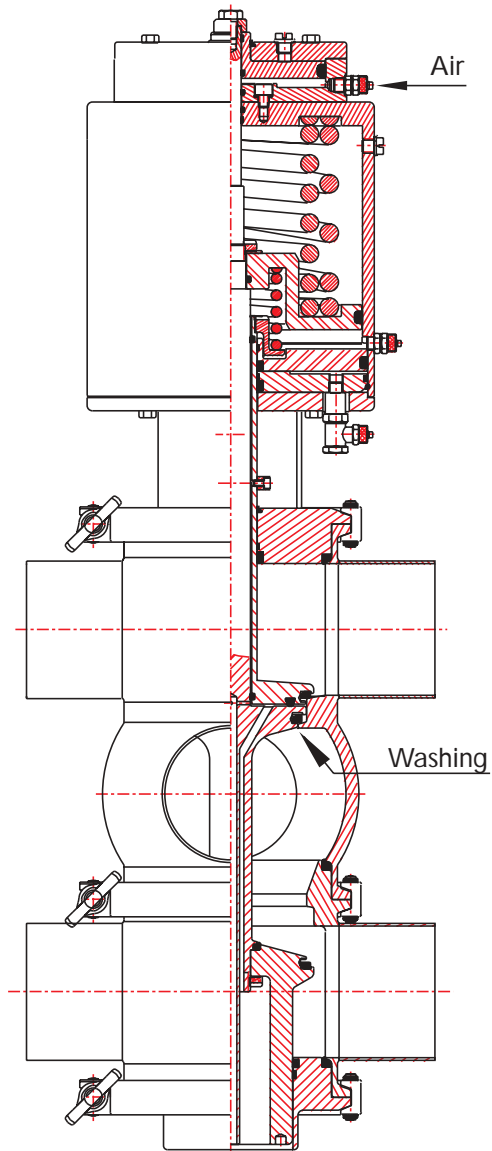
The standard VDCI mixproof valve is essentially a shut-off valve. To change the direction of flow, Definox produces a double shut-off valve with upper shut-off function being performed by a

double plug. This valve directs the liquid either to the upper body or the lower body. The double seal function is provided between the upper body and the centre body.

Valve closed  
Upper line closed  
Lower lines open



Lower plug lift

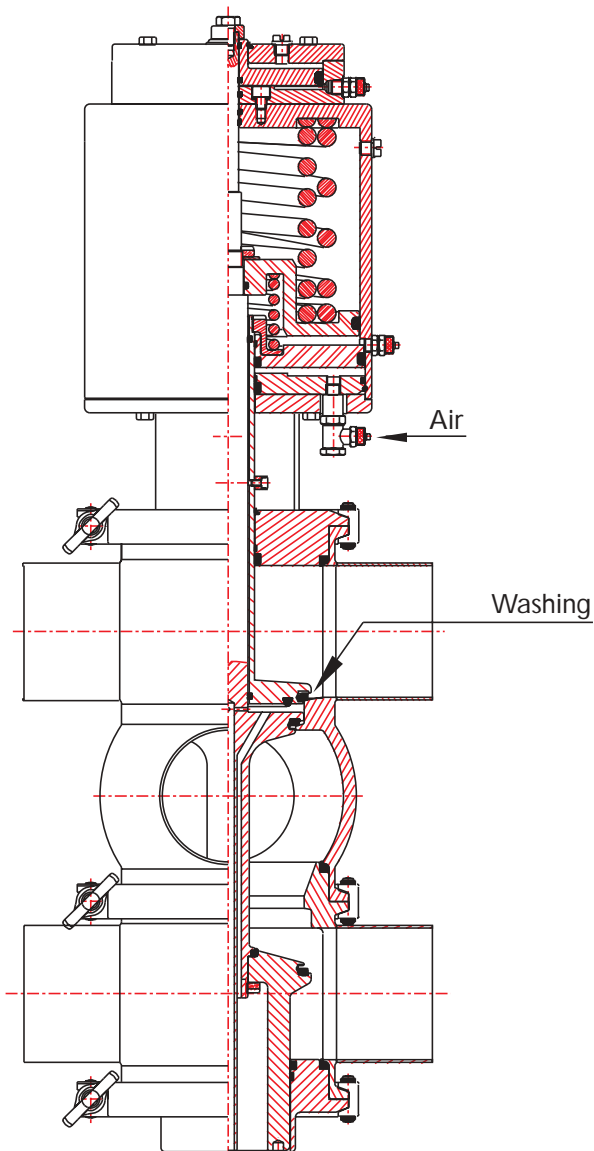


## VDCI mixproof valve 3 bodies

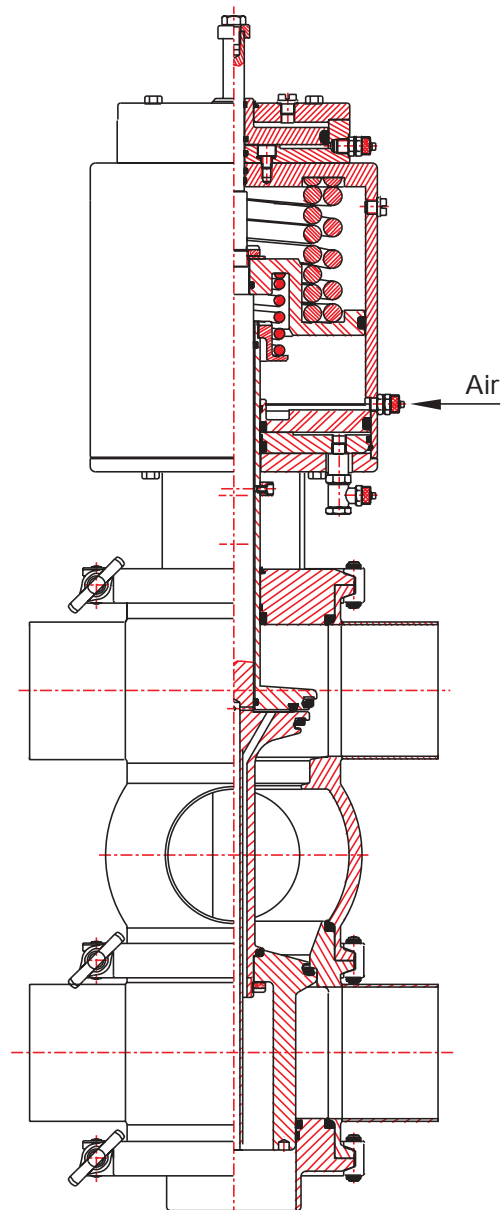
This valve retains the general characteristics of the standard mixproof valve, particularly the

possibility of activating the upper shut-off plugs. The pressure holding capacity is modified.

Upper plug lift



Valve open  
Upper lines open  
Lower line closed



# VDCI SP mixproof valve leak free opening type

## Design

Like the standard VDCI mixproof valve, the VDCI SP allows the two plugs to be operated independently to clean the air space and the seal bearing surfaces. The sliding seal on the bottom plug provides a total seal when the valve is operated, preventing product loss on opening.



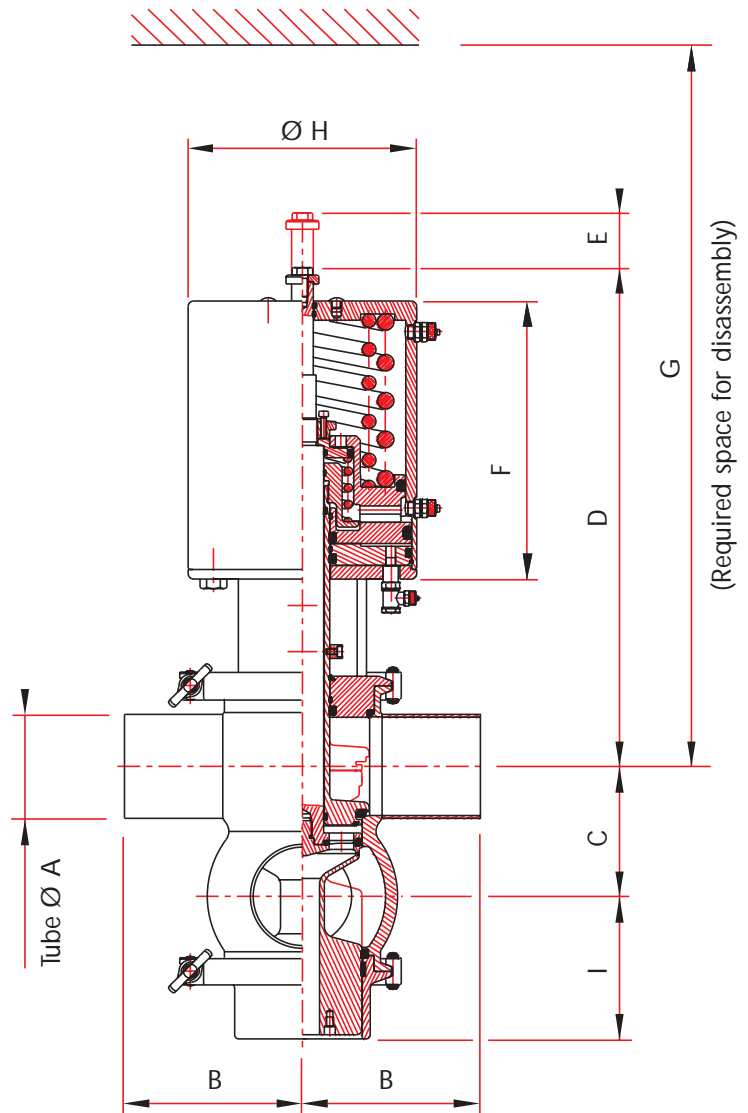
## Working conditions

DN			Pressure drop (Kv)	Pressure drop (Cv)	Opening time (s)	Air consumption (NI)
SMS	DIN	US				
38		1"1/2	46	53,36	4,2	2
51	50	2"	52	60,32	4,2	2
63		2"1/2	102	118,32	9	5
	65		104	120,64	9	6
76		3"	105	121,8	9	6
	80		180	208,8	10,8	11
104	100	4"	230	266,8	10,8	11

FOR ALL DIAMETERS OF VDCI SP MIXPROOF VALVE		
Maximum temperature: +100 °C	Minimum temperature: 0 °C	Temperature difference: 90 °C
Maximum working pressure: 10 Bar	Vacuum resistance: 0,7 cm <sup>3</sup> /s	Maximum sealing pressure: 12 Bar
Maximum supply pressure: 8 Bar	Minimum supply pressure: 5 Bar	

# VDCI 5P mixproof valve leak free opening type

## Dimensions



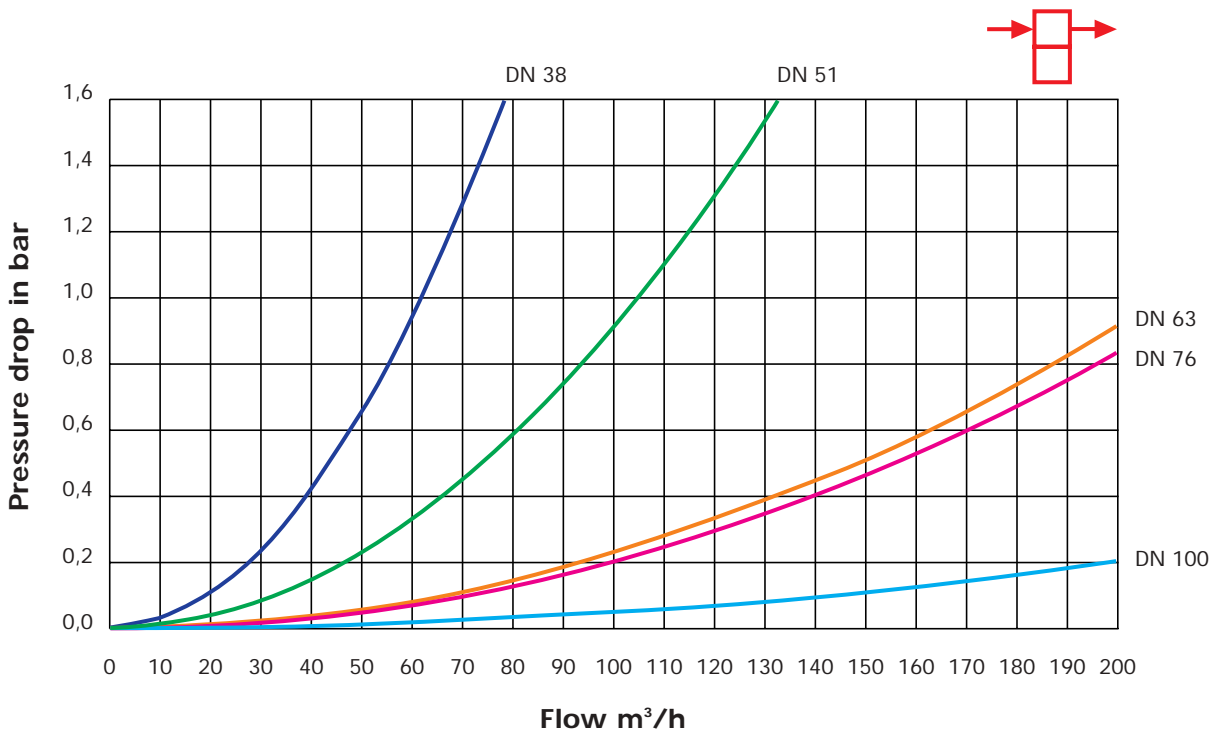
DN			Tube Ø A	B	C	D	E	F	G	Ø H	I	Weight in kg*
SMS	DIN	US										
38			38 x 1,2	105	57	314	29	179	495	128	76	18
		1"1/2	38,1 x 1,65	105	57	314	29	179	495	128	76	18
	40		40 x 1	105	57	314	29	179	495	128	76	18
51			51 x 1,25	105	70	320	38	179	525	128	82	19
		2"	50,8 x 1,65	105	70	320	38	179	525	128	82	19
	50		53 x 1,5	105	70	320	38	179	525	128	82	19
63			63,5 x 1,6	130	85	359	40	204	600	167	98	28
		2"1/2	63,5 x 1,65	130	85	359	40	204	600	167	98	28
	65		70 x 2	130	90	362	40	204	605	167	100	30
76			76 x 2	130	95	365	40	204	625	167	104	33
		3"	76 x 1,65	130	95	365	40	204	625	167	104	33
	80		85 x 2	130	110	365	47	204	648	167	115	61
		4"	101,6 x 2,1	155	125	416	50	234	750	218	127	70
104	100		104 x 2	155	125	416	50	234	750	218	127	70
	125		129 x 2	200	155	525	76	310	925	270	167	110
		6"	152,4 x 2,75	200	180	540	76	310	1000	270	180	120
	150		154 x 2	200	180	540	76	310	1000	270	180	120

\* Without control unit

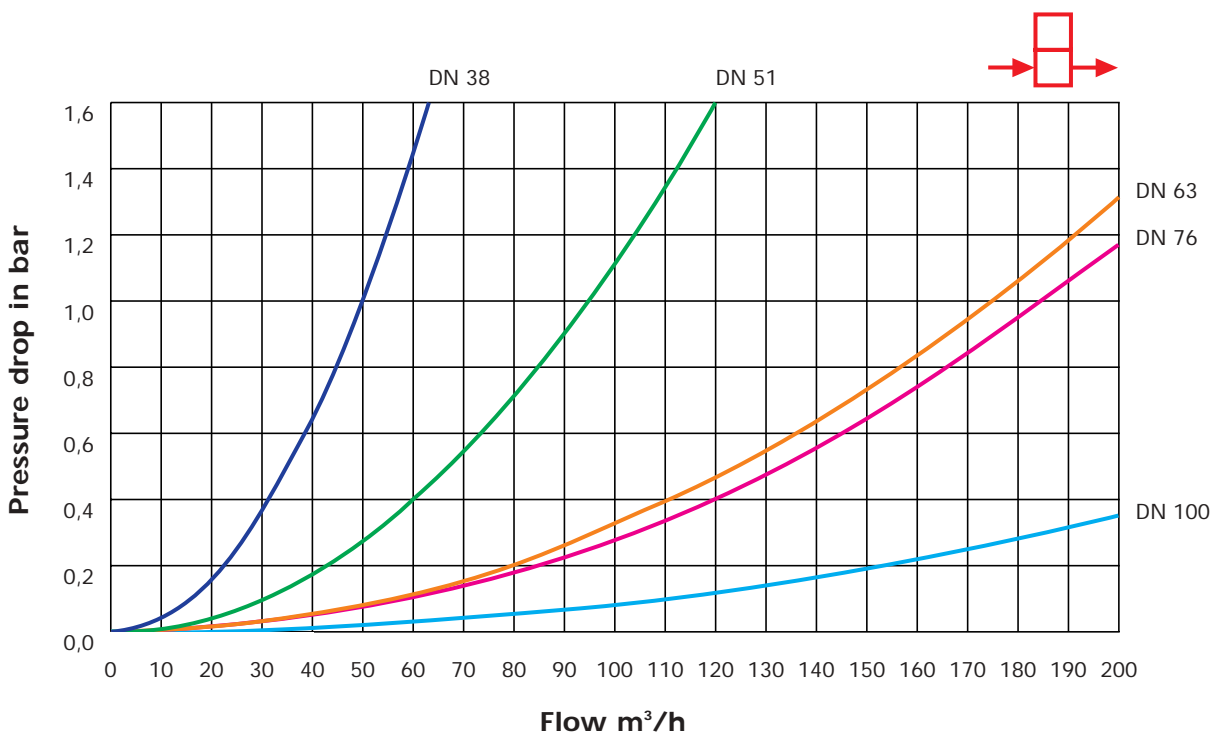
# VDCI SP mixproof valve leak free opening type



## Pressure drop VDCI SP valve upper line

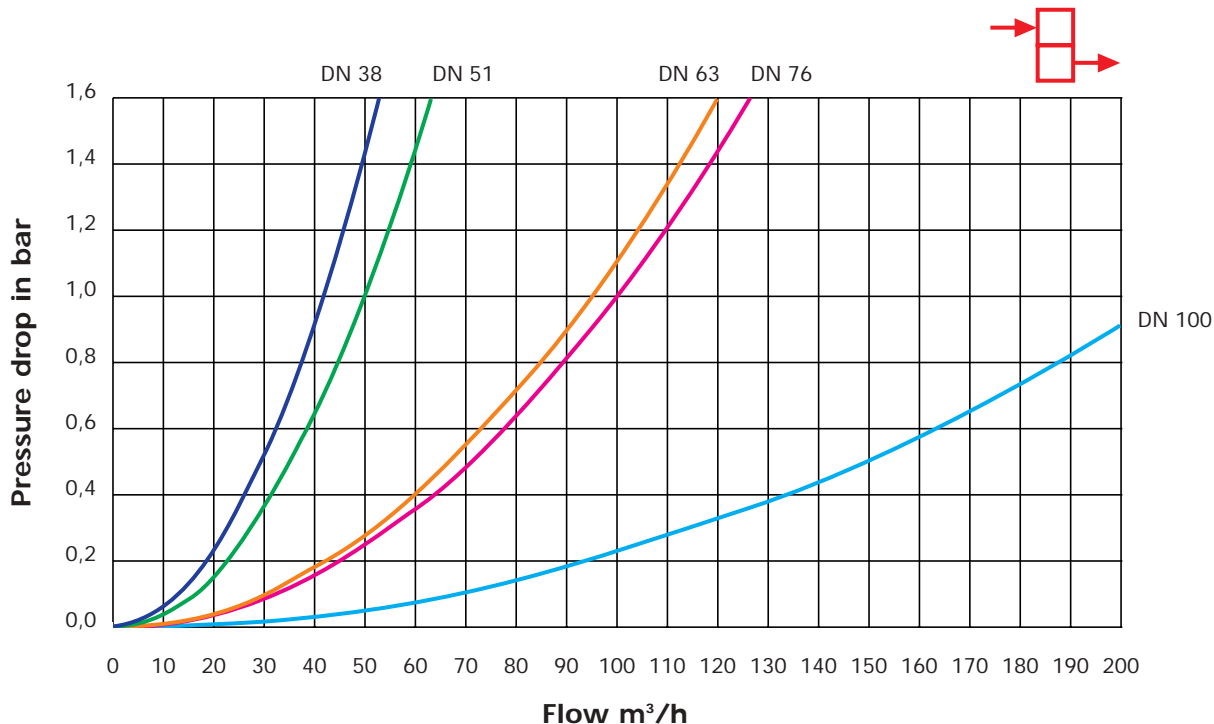


## Pressure drop VDCI SP valve lower line

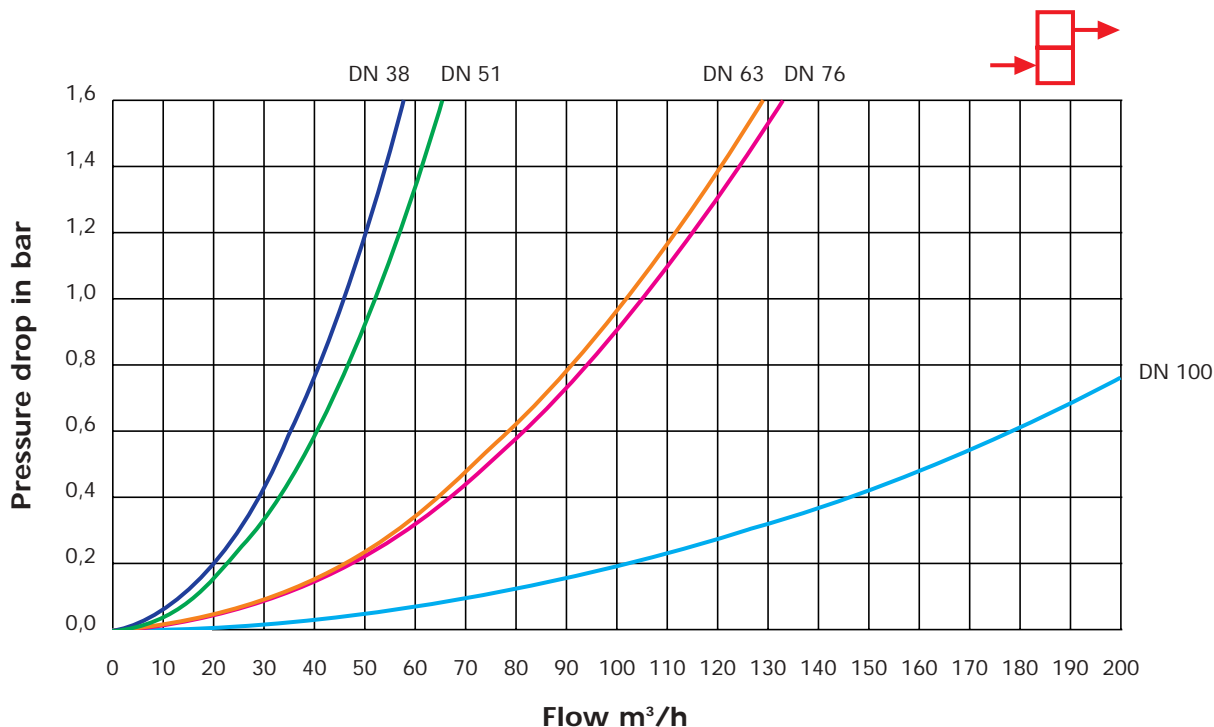


# VDCI SP mixproof valve leak free opening type

## Pressure drop VDCI SP valve upper → lower line



## Pressure drop VDCI SP valve lower → upper line



# VDCI PMO mixproof valve

## Design

In order to meet the particular standards of certain organizations (the FDA, for instance), DEFINOX has produced a PMO (Pasteurised Milk Ordinance) version.

It basically differs from the standard mixproof valve by a leakage section identical to the one on the process branch pipe. This requires a modification to its dimensional characteristics.

*Note: The standard signal-back equipment on this model may be complemented by a device to detect that the plugs are raised during air space washing operations.*

This valve retains the working conditions of the standard mixproof valve.

