

# Type SP / DSK

## Plug valves with flushing device

- for all AZ plug valves suitable

DN 15 - 600 / PN 10 - 100  
 NPS ½ - 24 / Class 150 - 600  
 Range of application:  
 -60 < T < 230/280°C,



Flushing valve 1

Flushing valve 2

**Type DSK**  
 double flushing  
 device combination



Flushing valve

**Type SP**  
 with lever

### Material

- all materials of the main valve

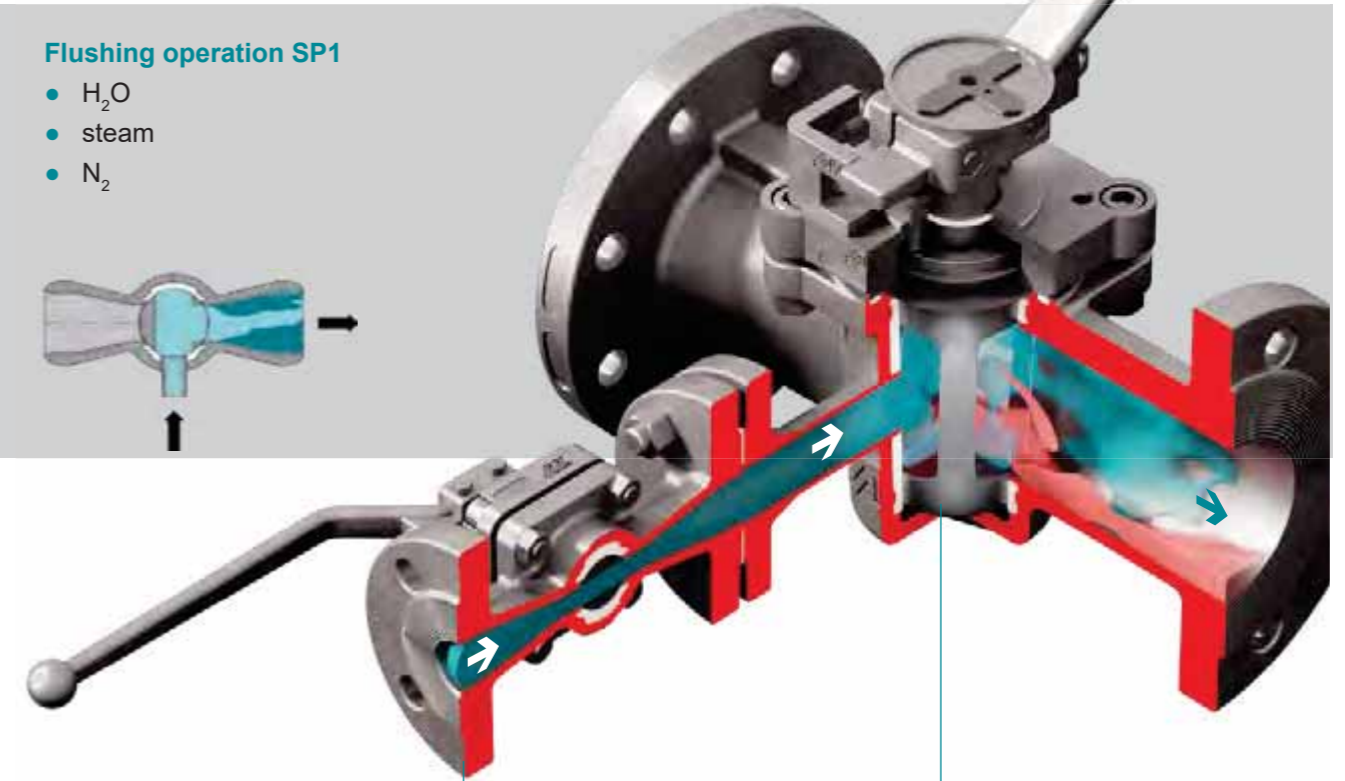
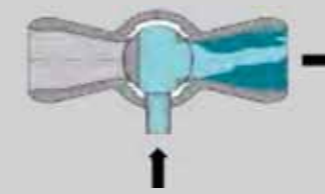
### Options

- plug protection insert
- actuation / control
- special flushing with bouncing plate etc. on request

## For complete flushing of valve or process line

### Flushing operation SP1

- H<sub>2</sub>O
- steam
- N<sub>2</sub>



- Flushing valve supplied with
  - weld-ends
  - flanges
  - threads

- Main process valve  
 e.g. with T4 plug form

### Applications

- Media that tends to clog in closed plug passage, which could then lead to a total blockage of the valve
- different media that need to be separated
- process contamination

### Examples

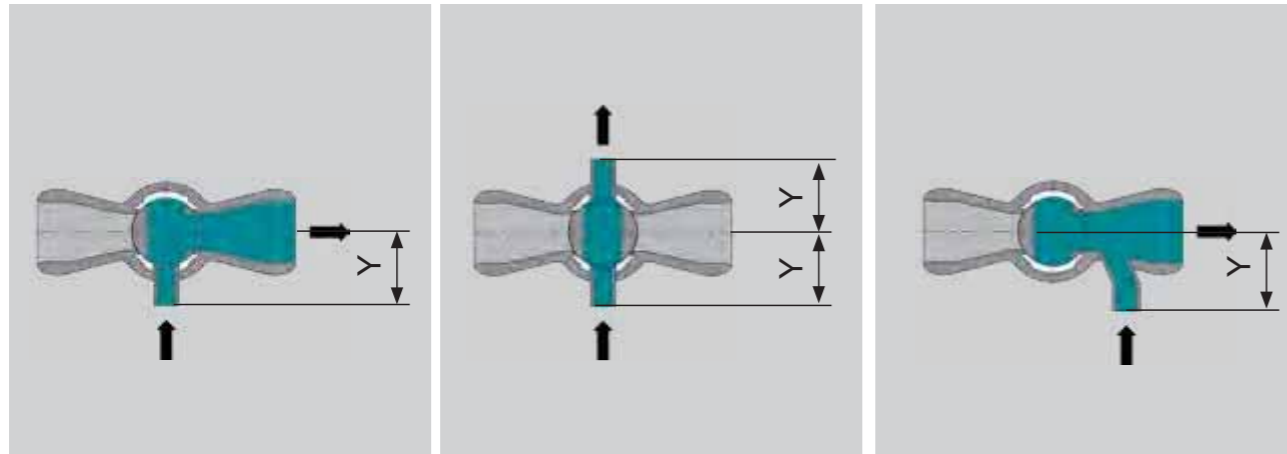
- Tar products
- Bitumen
- Sulfur
- VC + VCM
- Fly ash slurry
- Food
- Urea etc.



Sampling system  
**Type CONTIFLOW 6"**  
 with automated flushing  
 device

# Type SP

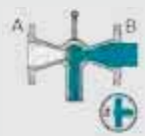
## Technical information



Flushing operation SP1	Flushing operation SP2	Flushing operation SP3
<p>Cross-flushing with connection to one side of the main line:</p> <ul style="list-style-type: none"> <li>only one flushing connection into the through plug with additional bore hole, or</li> <li>in threeway plugs, e.g. plug form T4</li> </ul>	<p>Cross-flushing without connection to any side of the main line (two cross-flushing line connections: 1. intake, 2. outlet)</p>	<p>Indirect flushing through flushing connections provided on the side of the plug specially for steam flushing at high speed to prevent damage of the PTFE sleeve</p>

### Possible flushing designs with type SP1 (T4 plug)

- type SP1-III-IV**  
Pos.IV = flushing to the right (standard)



- type SP1-III-II**  
Pos.II = flushing to the left



- type SP1-III-I**  
Pos.I = flushing to the right and left



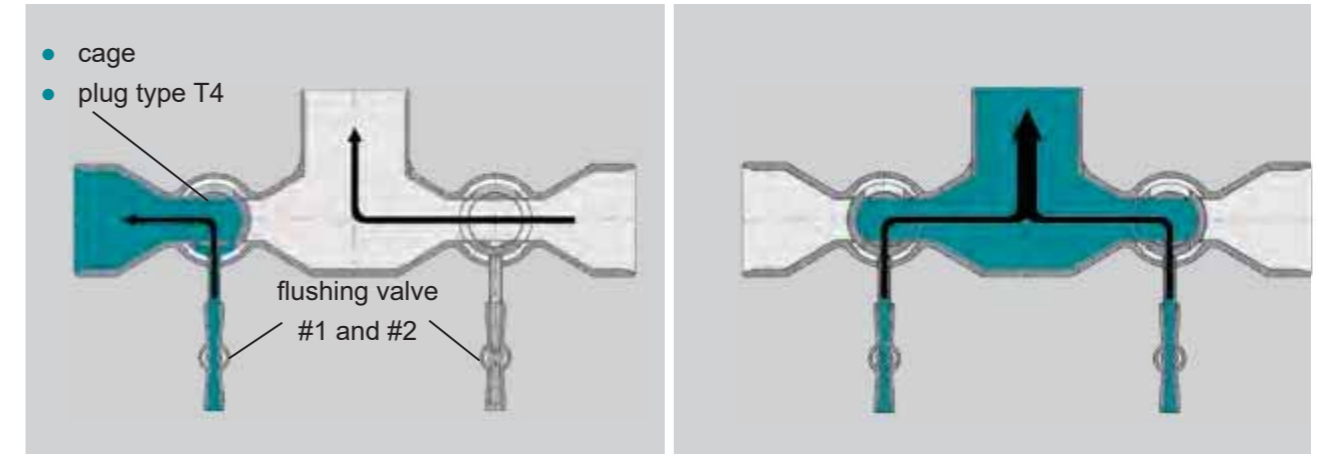
DN / NPS	for type ISO-STANDARD type ISO-EXTRA	
	Y [mm]	Y [mm]
15 / 1/2"	65	65
20 / 3/4"	76	76
25 / 1"	80	80
32 / 1 1/4"	90	90
40 / 1 1/2"	100	100
50 / 2"	115	115
65 / 2 1/2"	145	145
80 / 3"	155	155
100 / 4"	175	175
125 / 5"	162,5	162,5
150 / 6"	175	240
200 / 8"	200	300
250 / 10"	225	365
300 / 12"	250	425
350 / 14"	275	490
400 / 16"	300	550
450 / 18"	325	600
500 / 20"	350	625

Order example: A-2-DN50-BW-PN25-1.4408 SP-E-2-DN25-SW-PN25

A = welding end, 2 = two-way, DN50 = size, BW = buttwelding end, PN25 = rating, 1.4408 = body material, SP1-III-IV = flushing, E = welding end, 2 = two-way, DN25 = size, SW = socketwelding end, PN25 = rating

# Type DSK

## Technical information



Flushing operation DSK (example 1)	Flushing operation DSK (example 2)
<p>Combination for alternating flushing upstream lines / pumps</p> <ul style="list-style-type: none"> <li>main valve #A opened for process</li> <li>main valve #B closed, flushing valve #1 opened</li> <li>flushing upstream pipeline and pumps</li> </ul>	<p>Combination for common flushing downstream lines / pumps</p> <ul style="list-style-type: none"> <li>main valve #A and #B closed for process</li> <li>flushing valves #1 and #2 opened</li> <li>flushing downstream pipeline and pumps</li> </ul>

NPS	Class	A [mm]	L [mm]	C [mm]	D [mm]	E [mm]
2	150 / 300	120	432	232,5	216	216
3	150 / 300	140	620	252,5	310	310
4	150 / 300	150	700	272,5	350	350
6	150 / 300	200	864	292,5	432	432
8	150 / 300	270	1016	312,5	508	508
10	150 / 300	300	900	332,5	450	450
12	150 / 300	350	1000	382,5	500	500

Flushing valve DN 1/2"

Order example: DSK-6"-BW-150-1.4408 SP-E-1/2"-SW-150

DSK = Type DSK, 6 = size, BW = buttweld end, 150 = rating, 1.4408 = body material, SP = flushing valve, E = welding end, 1/2" = size, SW = socket welding, 150 = class