



# SR DN 15÷50

PVDF

Ball check valve



# SR DN 15÷50

The SR check valve allows the passage of fluid in a single direction.

## BALL CHECK VALVE

- Connection system for weld joints
- **PN16 valve body made for PVDF injection moulding** and European Directive 2014/68/EU (PED) compliant for pressurised equipment. ISO 9393 compliant test requirements
- The valve can only be used with fluids with specific weight under 1,78 g/cm<sup>3</sup>
- Sealing system **with antiblow out design**
- Ball completely in PVDF
- Can be maintained with the valve body installed
- Can be **installed** in either a **vertical** (preferable) or **horizontal position**

Technical specifications	
<b>Construction</b>	Ball check valve
<b>Size range</b>	DN 15 ÷ 50
<b>Nominal pressure</b>	PN 16 with water at 20° C
<b>Temperature range</b>	-40 °C ÷ 140 °C
<b>Coupling standards</b>	<b>Welding:</b> EN ISO 10931. Can be coupled to pipes according to EN ISO 10931
<b>Reference standards</b>	<b>Construction criteria:</b> EN ISO 16137, EN ISO 10931 <b>Test methods and requirements:</b> ISO 9393 <b>Installation criteria:</b> DVS 2202-1, DVS 2207-15, DVS 2208-1
<b>Valve material</b>	<b>Body:</b> PVDF <b>Ball:</b> PVDF
<b>Seal material</b>	FKM (spare set in EPDM available on request)

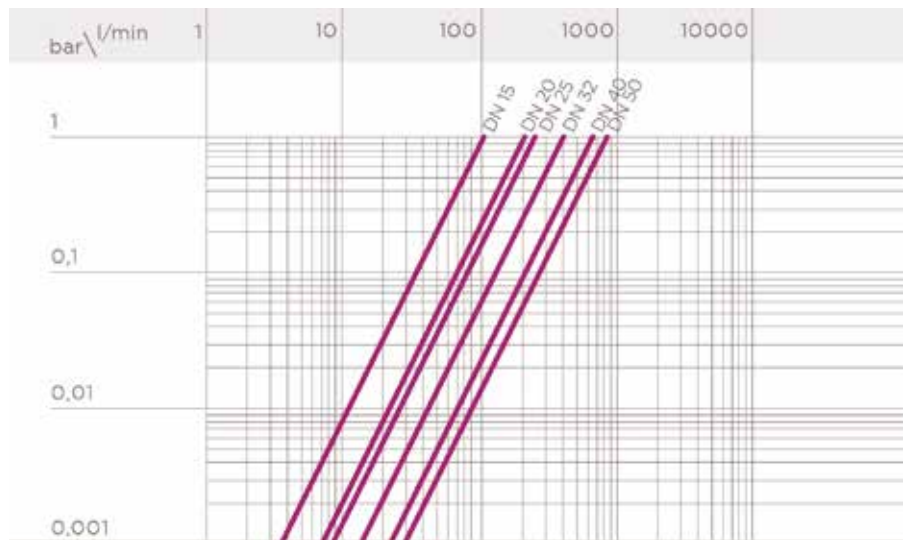
# TECHNICAL DATA

## PRESSURE VARIATION ACCORDING TO TEMPERATURE

For water and non-hazardous fluids to which the material is classified as CHEMICALLY RESISTANT. In other cases, a reduction of the nominal pressure PN is required (25 years with safety factor).



## PRESSURE DROP GRAPH



## MINIMUM PRESSURE

Minimum sealing pressure (valve in horizontal position)

DN	15	20	25	32	40	50
bar	0,2	0,2	0,2	0,2	0,2	0,2

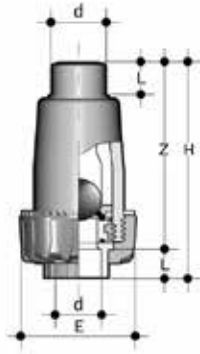
## K<sub>v</sub>100 FLOW COEFFICIENT

The K<sub>v</sub>100 flow coefficient is the Q flow rate of litres per minute of water at a temperature of 20°C that will generate Δp= 1 bar pressure drop at a certain valve position. The Kv100 values shown in the table are calculated with the valve completely open.

DN	15	20	25	32	40	50
Kv100 l/min	110	205	240	410	650	840

The information in this leaflet is provided in good faith. No liability will be accepted concerning technical data that is not directly covered by recognised international standards. FiP reserves the right to carry out any modification. Products must be installed and maintained by qualified personnel.

# DIMENSIONS



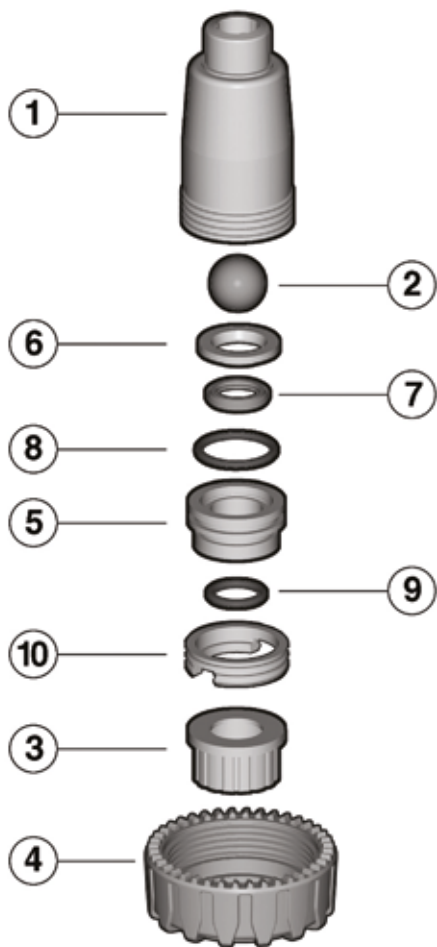
## SRIF

Ball check valve with ends for socket welding, metric series

d	DN	PN	E	H	L	Z	g	Code
20	15	16	54	104	16	88	150	SRIF020F
25	20	16	65	125	19	106	260	SRIF025F
32	25	16	74	148	22	126	390	SRIF032F
40	32	16	86	171	26	145	600	SRIF040F
50	40	16	98	189	31	158	820	SRIF050F
63	50	16	119	222	38	184	1420	SRIF063F

# COMPONENTS

## EXPLODED VIEW



- 1 Body (PVDF - 1)
- 2 Ball (PVDF - 1)\*
- 3 End connector (PVDF - 1)\*

- 4 Union nut (PVDF - 1)\*
- 5 Support clip (PVDF - 1)
- 6 Ball seat (FKM - 1)\*

- 7 Gland packing ring (PVDF - 1)
- 8 Radial seal O-Ring (FKM - 1)\*
- 9 Socket seal O-Ring (FKM - 1)\*

\* Spare parts

The material of the component and the quantity supplied are indicated between brackets

## DISASSEMBLY

- 1) Isolate the valve from the flow.
- 2) Unscrew the union nut (4).
- 3) Unscrew the carrier (5) using the VKD valve handle insert supplied; remove the gland packing ring (6) to access the ball seat (7).
- 4) Remove the ball (2) from inside the body (1).

## ASSEMBLY

- 1) Insert the ball (2) in the body (1).
- 2) Place the O-rings (9) and (8) in the carrier housings (5).
- 3) Place the seal (7) between the carrier (5) and the gland packing ring (6).
- 4) Screw the carrier (5) into the body (1) to limit stop, using the VKD valve handle insert supplied.
- 5) Insert the stub (3) and screw the union nut (4) making sure that the socket seal O-ring (9) does not exit its seat.



**Note:** maintenance operations can be carried out with the valve body installed. During assembly, it is advisable to lubricate the rubber seals. Mineral oils are not recommended for this task as they react aggressively with EPDM rubber.

## INSTALLATION

- 1) The SR check valve can be installed on vertical or horizontal axis pipes.
- 2) Install the valve such that the arrow on the body indicates the direction of fluid flow.