

Danfoss SBFV - High performance steel butterfly valves

# High performance butterfly valves Tight and **reliable solution**

## Special design for district heating and cooling applications

Danfoss SBFV are high performance steel butterfly valves that together with Danfoss JIP™ ball valves complete the family of shut off valves designed especially for district heating and district cooling systems.

Danfoss SBFV are triple offset butterfly valves with unique lamellar seat design that ensures reliable operation and tightness in both directions even at high and low temperatures. They are primarily designed as shut-off valves but can be as well used for simple control purposes.

The packing box has been designed on the same principle as on JIP™ ball valves where a carbon reinforced PTFE sealing is used that does not deteriorate over years and can be tightened while in the pipeline thus ensuring external tightness for lifetime.

## Quality

### tight and reliable

Unique lamellar seal  
with triple offset design  
together with special carbon  
reinforced PTFE stem sealing  
secure reliable operation  
and tightness.



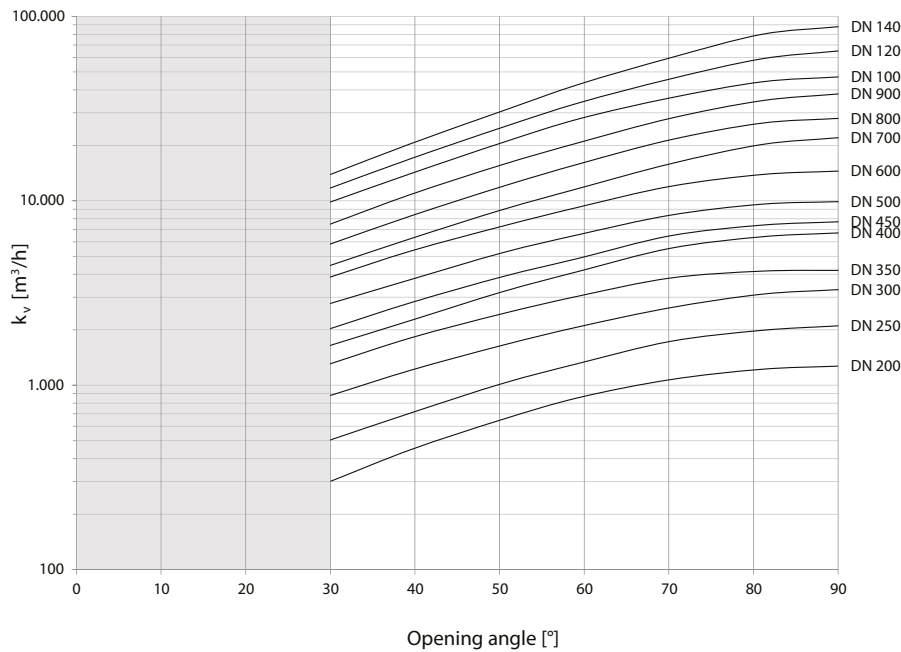
### Technical data

DN	mm	200	250	300	350	400	450	500	600	700	800	900	1000	1200	1400
kvs	m <sup>3</sup> /h	1270	2100	3300	4200	6700	7700	9900	14500	22000	28000	38000	47000	65000	88000
Torque	Nm	560	790	1560	1930	2450	3270	4280	4930	9800	14200	15200	22500	32600	55500
PN		16 / 25													
Δp max		16*													
Temperature	°C	-20 - 240**													
Medium		Circulation water / glycolic water up to 50%													

\* on special demand products with higher Δp can be delivered

\*\* temperature depends on the pressure. Please see pressure-temperature diagram for details

### SBFV flow diagram (water)



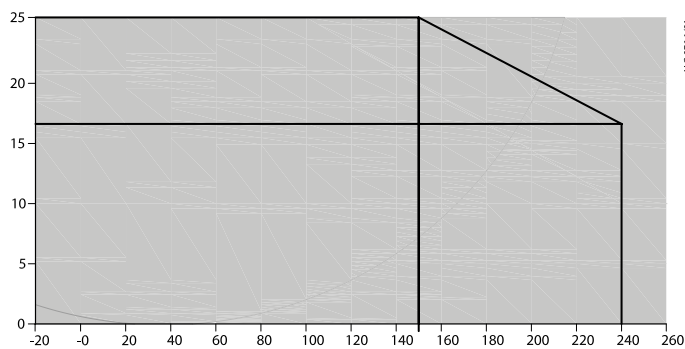
For best performance of controlling the flow please choose dedicated Danfoss control valves.

SBFV butterfly valves can be used for simple regulation in opening angles from 30° to 90°.

To avoid high flow speed, cavitation and turbulence, opening angle from 0-30° should not be used.

Maximum flow velocities for media should not exceed:  
 - 3 m/s [DN200-400]  
 - 2,5 m/s [DN450-800]  
 - 2m/s [DN1000-1400]

### Pressure temperature diagram



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