

DIN / EN Check Valve: Swing and Lift Types, PN16–PN64

DIN / EN check valves are swing and lift non-return valves that match existing lines one-for-one in plants engineered to European standards. With EN 558 face-to-face dimensions and EN 1092-1 flanges, they allow direct replacement.

Technical specifications

Type	Swing, lift
Pressure rating	PN16, PN25, PN40, PN64
End connections	EN 1092-1 flanged, EN 558 face-to-face
Materials	1.0619, 1.7357, 1.4408 and other EN materials
Testing	EN 12266-1



Stainless steel flanged swing check valve, PN16 · representative image

Key features

- One-for-one replacement in DIN lines
- Swing and lift options
- Certificates with EN material numbers

Standards and test pressures

- **Design:** EN 16767 (steel check valves); lift type with DIN 3356 / EN 13709 body construction
- **Face-to-face:** DIN 3202 / EN 558
- **Flanges:** EN 1092-1 (DIN 2543–2547)
- **Testing:** EN 12266-1 (DIN 3230)

Under EN 12266-1, the hydrostatic shell test is carried out at 1.5 times the valve's allowable pressure (PS) at 20 °C and the seat test at 1.1 times PS. The values below apply to material groups in which PS equals PN:

Nominal pressure	Shell test	Seat test
PN 16	2.4 MPa (24 bar)	1.76 MPa (17.6 bar)
PN 25	3.75 MPa (37.5 bar)	2.75 MPa (27.5 bar)
PN 40	6.0 MPa (60 bar)	4.4 MPa (44 bar)
PN 64	9.6 MPa (96 bar)	7.04 MPa (70.4 bar)