

DIN / EN Flanged Ball Valve: PN16–PN100

DIN / EN ball valves have PN-rated EN 1092-1 flanges and EN 558 face-to-face dimensions for plants engineered to European standards. Because EN/DIN-based plant design is common across Europe, the Middle East and North Africa, they are the practical choice for one-for-one replacement of existing valves in those plants.

Technical specifications

Pressure rating	PN16, PN25, PN40, PN64, PN100
End connections	EN 1092-1 flanged; EN 558 face-to-face
Type	Floating (small to mid sizes), trunnion mounted (large sizes)
Materials	1.0619 (GP240GH), 1.4408 (CF8M equivalent) and other EN materials
Testing	EN 12266-1
Operation	Lever, gear operator, actuator on ISO 5211 mounting pad



DIN / EN flanged ball valve with gear operator · representative image

Key features

- One-for-one replacement in existing DIN lines
- Tested to EN 12266-1
- Certificates with EN material numbers
- Stainless steel and low-temperature options

Standards and test pressures

- **Design:** EN 1983 (steel ball valves), DIN / EN flange dimensions
- **Flanges:** EN 1092-1 (DIN 2543–2547) PN16, PN25, PN40, PN64 and PN100
- **Size range:** DN50–DN1000 in trunnion design
- **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)