

Laboratory Ball Valve Type 522



Type 522
PVC-U

Type 522
PVDF

Product description

The laboratory ball valve type 522 is the ideal valve for use in laboratory applications. It is available in diameter DN6 in the materials PVC-U and PVDF, as well as with BSP or NPT thread. The various connection options and other accessories are supplied as standard.

Function

The ball valve uses a rotating ball with a hole through it that allows straight-through flow in the open position and shuts off flow when the ball is rotated 90° to block the flow passage. This valve is mainly used for open/close functions and for regulating services.

Applications

- Laboratory applications
- Dosing
- Sample taking

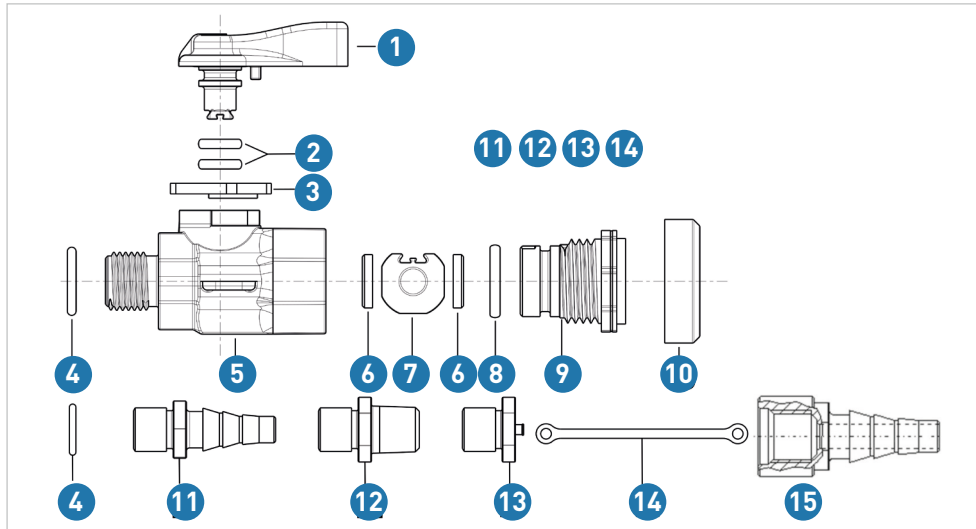
Benefits/features

- ideal for laboratory applications
- Lock and metering ring for protection of sampling ball valve from any unwarranted opening
- Lock and metering ring for adjustment of ball opening angles
- Sampling ball valve can be 100% opened at any time by removing the lock and metering ring
- Compact design
- Low weight
- Corrosion resistant
- PVDF Sampling ball valve is Oil & Silicone-free

Flow media

Neutral and aggressive media with a small amount of particles/solids. The chemical resistance is independent of the selected valve material ([see online tool ChemRes PLUS](#)).

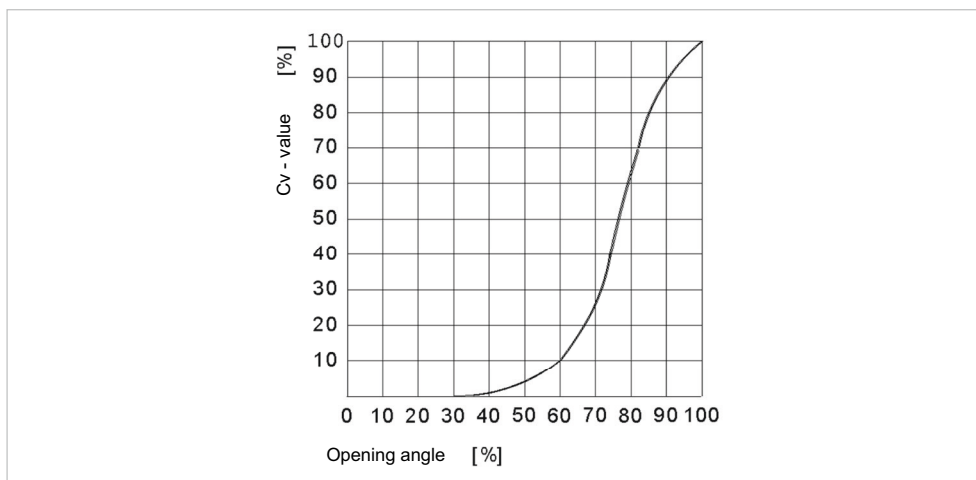
Technical data



- ① Handle
- ② O rings
- ③ Blocking and dosage ring
- ④ O rings
- ⑤ Housing
- ⑥ Ball seat ring
- ⑦ Ball
- ⑧ O rings
- ⑨ Pressure ring
- ⑩ Safety clip
- ⑪ Hose connector AG
- ⑫ Double nipple
- ⑬ Blanking plug
- ⑭ Fastening clip
- ⑮ Hose connector IG

Specifications		
Dimensions	d10/DN6	
Materials	Valve body and lever	PVC-U, PVDF
Gasket materials	O rings	EPDM, FPM
	Ball seating joint	PTFE
Pressure level	PN10	
Connections PVC-U	Body	BSP, NPT
	Hose nozzle	BSP, NPT
	Double nipple	BSP - NPT, NPT - NPT
	Plug	BSP
Connections PVDF	Gehäuse	BSP, NPT
	Hose nozzle - male thread	BSP
	Double nipple	BSP, NPT
	Plug	BSP
Approvals	PVC-U	NSF, FDA, WRAS, ACS, KTW, KIWA
	PVDF	NSF, FDA

Flow characteristics



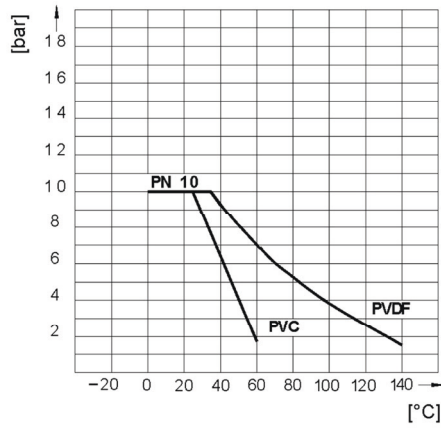
- X Opening angle (%)
- Y kv, Cv value (%)

Pressure-temperature diagrams

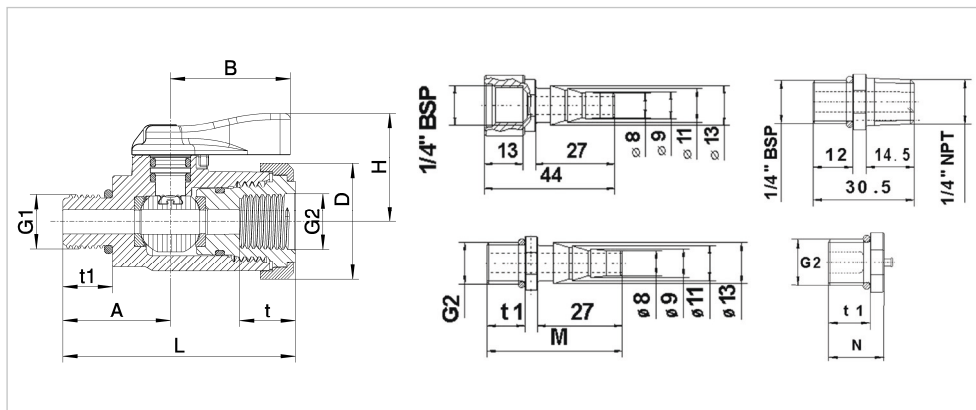
The following pressure-temperature diagrams are based on a service life of 25 years and water or similar media.

T Temperature (°C, °F)
 P Permissible pressure (bar, psi)

PVC-U, PVDF



Dimensions



	G1 (Zoll)	G2 (Zoll)	A (mm)	B (mm)	D (mm)	H (mm)	L (mm)	M (mm)	N (mm)	t (mm)	t1 (mm)	PN (bar)
PVC-U	1/4" BSP	1/4" BSP	26	29	28	26.5	56	43	16	13.5	12	10
	1/4" NPT	1/4" NPT	28.5	29	28	26.5	58.5	45.5	18.5	13.5	14.5	10
PVDF	1/4" BSP	1/4" BSP	26	28.2	28	26	56	43	16	13.2	12	10
	1/4" NPT	1/4" NPT	28.5	28.2	28	26	58.5	45.5	18.5	13.2	14.5	10

i For further information on accessories, refer to the online product catalogue at www.gfps.com

■ Mobile apps and online tools to support configuration and calculation at www.gfps.com/tools



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