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DIMENSIONAL STANDARD · ASME B16.10

ASME B16.10 Valve Face-to-Face Dimensions

ASME B16.10 flanged valve face-to-face dimensions for gate, globe, check and ball valves, Class 150, 300 and 600 RF, in mm.

This chart gives **ASME B16.10** face-to-face dimensions in millimetres for flanged raised-face gate, globe, lift and swing check, and short and long pattern ball valves in Class 150, 300 and 600. Face-to-face length lets a replacement valve drop into the same piping gap.

Teshi Group supplies gate, globe, check and ball valves to API and ASME standards with full test certificates.

L Face-to-face length, raised face to raised face (columns by valve type)

Flanged RF valves — Class 150, face to face (mm)

NPS	Gate Solid wedge · mm	Globe Globe / lift check · mm	Swing check mm	Ball Short pattern · mm	Ball Long pattern · mm
1/2"	108	108	—	108	108
1"	127	127	—	127	127
2"	178	203	—	178	178
3"	203	241	—	203	203
4"	229	292	—	229	229
5"	—	—	330	—	—
6"	267	406	356	267	394
8"	292	495	—	292	457
10"	330	622	—	330	533
12"	356	698	—	356	610
16"	406	—	—	406	762
20"	457	978	—	—	914
24"	508	1295	—	—	1067

Flanged RF valves — Class 300, face to face (mm)

NPS	Gate Solid wedge · mm	Globe Globe / lift check · mm	Swing check mm	Ball Short pattern · mm	Ball Long pattern · mm
1/2"	140	152	—	140	140
3/4"	152	178	—	152	152
1"	165	203	216	165	165
1 1/4"	178	216	229	178	178
1 1/2"	190	229	241	190	190
2"	216	267	267	216	216
2 1/2"	241	292	292	241	241
3"	282	318	318	282	282

NPS	Gate Solid wedge · mm	Globe Globe / lift check · mm	Swing check mm	Ball Short pattern · mm	Ball Long pattern · mm
4"	305	356	356	305	305
5"	381	400	400	—	—
6"	403	444	444	403	403
8"	419	559	533	419	502
10"	457	622	622	457	568
12"	502	711	711	502	648
14"	762	—	838	572	762
16"	838	—	864	610	838
18"	914	—	978	660	914
20"	991	—	1016	711	991
22"	1092	—	1118	—	1092
24"	1143	—	1346	813	1143

Flanged RF valves — Class 600, face to face (mm)

NPS	Gate Solid wedge · mm	Globe Globe / lift check · mm	Swing check mm	Ball Short pattern · mm	Ball Long pattern · mm
1/2"	165	165	165	—	165
3/4"	190	190	190	—	190
1"	216	216	216	—	216
1 1/2"	241	241	241	—	241
2"	292	292	292	—	292
3"	356	356	356	—	356
4"	432	432	432	—	432
6"	559	559	559	—	559
8"	660	660	660	—	660
10"	787	787	787	—	787
12"	838	838	838	—	838
14"	889	889	889	—	889
16"	991	991	991	—	991
18"	1092	1092	1092	—	1092
20"	1194	1194	1194	—	1194
24"	1397	1397	1397	—	1397

Notes

- Face-to-face is measured between the raised faces of the end flanges.
- A dash means no value is listed for that valve type and size.

- Reference values for estimation and checking. Verify against the current edition of the standard and the purchase specification before design, purchase or fabrication.

Reference information compiled from the published standard for convenience. It does not replace the current edition of the governing standard, which takes precedence. Verify critical dimensions before design, purchase or fabrication. Teshi Engineers & Sales Promoters (P) Ltd accepts no liability for errors or omissions. Online version: https://teshigroup.com/dimensional-standards/asme-b16-10-valve-face-to-face-dimensions/