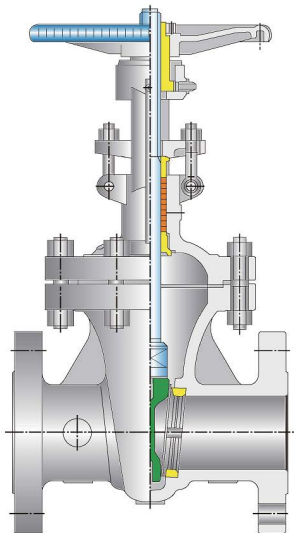


RKSfluid®

Proven Technology-Superior Features
Legendary Value

BIGFOOT Series Gate Valve

NPS½-NPS36 (DN15-DN900)



Design standard

Design standard	Cast steel gate valve: API 600 (ISO 10434) , API 6D; Stainless steel gate valve: API 602; GB12234, BS1414
Flange standard	ASME B16.5 (NPS<24) , ASME B16.47 B, API 605, ASME 16.47 A, MSS SP-44 (NPS > 24) , GB/T 9113,
Butt weld end	BS 4504
Butt weld end	ASME B 16.25, GB/T 12224
Socket weld	ASME B16.11
Face to face	ASME B16.10, GB/T 12221
Test standard	API598, GB/T 13927

Cover Flange Gasket

Class 150 – Carbon or Stainless Steel + Flexible Graphite.
Class 300 – Stainless Steel + Flexible Graphite.
Class 600 – Stainless Steel + Flexible Graphite. Ring Joint gasket optional.
Class 900 – Ring Joint gasket.
Class 1500 and 2500 – Pressure Seal Gasket.

Disc Type

Sizes less than 2" – Solid wedge.
Sizes 2" and larger – Flexible wedge.

Body and Bonnet Connection

Class 150 thru Class 900 – Bolted bonnet (studs and nuts).
Class 1500-2500 – Pressurized seal design.

Back Seated Design

All of our gate valves include a back seated design. Carbon steel valves are fitted with a renewable back seat. In Stainless steel valves the back seat is machined directly into the bonnet or machined after welding. When the valve is in the fully open position the back seat is very reliable, but under API 600 it is not advisable to change or add valve packing while the valve is under pressure.

Stem Nut

Standard ASTM A439 D2. Copper alloy optional. On larger diameter valves (10" Class 150, 8" Class 300, 6" Class 600, 5" Class 900), roller bearings are added opposite the stem nut to minimize opening and closing torque.

Stem Packing

Molded flexible graphite is standard. PTFE or other materials per request. Precisely machined stem finish (Ra3.2 m) and diameter insures compactness (Ra 0.8 m) and reliable packing seal of the stem area.

Operation

Handwheel and gear operators are standard. Chainwheel and Electric actuation is available per customer request.

Live Loaded Packing Design

Live loaded packing system with Belleville springs enhances the durability, reliability, and performance of the stem packing sealing.

Stem Design

Valve stem is integrally forged. Minimum stem diameters are per standard industry specification.

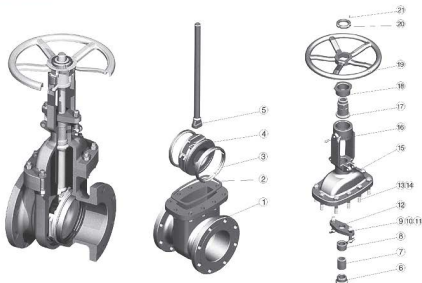
Seat

Carbon Steel Bodies: Typically forged steel with hard alloy overlay per customer specification. Renewable threaded seat is standard for NPS_10 valves (welded seat optional). Welded seat is standard for NPS_12 valves.
Stainless Steel Bodies: Integral seat is standard, with or without hard facing per customer specification. Threaded or welded seats are an available option.

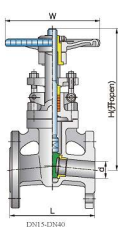
Pressure classes

Size	Pressure
NPS½-NPS36 (DN15-DN900)	CLASS 150 (PN20)
NPS½-NPS36 (DN15-DN900)	CLASS 300 (PN50)
NPS2-NPS24 (DN50-DN600)	CLASS 600 (PN100)
NPS2-NPS16 (DN50-DN400)	CLASS 900 (PN150)
NPS2-NPS16 (DN50-DN400)	CLASS 1500 (PN250)
NPS2-NPS12 (DN50-DN300)	CLASS 2500 (PN420)

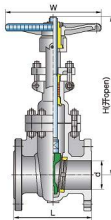
Parts and Material



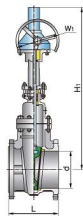
No.	Name	Materials				
		WCB/Trim 1	WCB/Trim 5	WCB/Trim 8	CF8/304	CF8M/316
1	Body	ASTMA216 WCB	ASTMA216 WCB	ASTMA216 WCB	ASTMA351 CF8	ASTMA351 CF8M
2	Gasket	Soft Iron +Graphite or 304+Graphite			304+Graphite	316+Graphite
3	Seat	A105+13Cr	A105+ STL	A105+ STL	ASTMA351 CF8	ASTMA351 CF8M
4	Gate	ASTMA216 WCB	ASTMA216 WCB+STL	ASTMA216 WCB+ 13Cr	ASTMA351 CF8	ASTMA351 CF8M
5	Stem	ASTMA182 F6a	ASTMA182 F6a	ASTMA182 F6a	ASTMA182 F304	ASTMA182 F316
6	Back seat bushing	ASTMA182 F6a	ASTMA182 F6a	ASTMA182 F6a	ASTMA182 CF8	ASTMA182 CF8M
7	Packing	Graphite	Graphite	Graphite	Graphite	Graphite
8	Gland	ASTMA182 F6a	ASTMA182 F6a	ASTMA182 F6a	ASTMA182 F304	ASTMA182 F316
9	Gland eyebolt	ASTMA193 B7	ASTMA193 B7	ASTMA193 B7	ASTMA193 B8	ASTMA193 B8M
10	Nut	ASTMA194 2H	ASTMA194 2H	ASTMA194 2H	ASTMA194 8	ASTMA194 8M
11	Pin	ASTMA36	ASTMA36	ASTMA36	304SS	304SS
12	Packing gland	ASTMA216 WCB	ASTMA216 WCB	ASTMA216 WCB	ASTMA351 CF8	ASTMA351 CF8M
13	Bonnet bolt	ASTMA193 B7	ASTMA193 B7	ASTMA193 B7	ASTMA193 B8	ASTMA193 B8M
14	Bonnet nut	ASTMA194 2H	ASTMA194 2H	ASTMA194 2H	ASTMA194 8	ASTMA194 8M
15	Bonnet	ASTMA216 WCB	ASTMA216 WCB	ASTMA216 WCB	ASTMA351 CF8	ASTMA351 CF8M
16	Nipple	Carbon steel	Carbon steel	Carbon steel	Carbon steel	Carbon steel
17	Stem nut	ASTMA439 D2	ASTMA439 D2	ASTMA439 D2	ASTMA439 D2	ASTMA439 D2
18	Yoke sleeve nut	Carbon steel	Carbon steel	Carbon steel	Carbon steel	Carbon steel
19	Hand wheel	Ductile iron	Ductile iron	Ductile iron	Ductile iron	Ductile iron
20	Hand wheel nut	Carbon steel	Carbon steel	Carbon steel	Carbon steel	Carbon steel
21	Screw	ASTMA193 B7	ASTMA193 B7	ASTMA193 B7	ASTMA193 B7	ASTMA193 B7



DN15-DN40



DN50-DN125

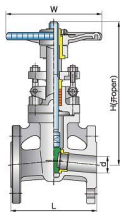


DN150-DN900

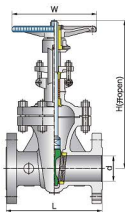
CLASS 150 NPS½-NPS36 (PN20 DN15-DN900) Dimensions (mm)

SIZE	L			d	H	H1	W	W1
	RF	RTJ	BW					
DN15	108	119	108	13	195	-	120	-
DN20	117	130	117	19	210	-	120	-
DN25	127	140	127	25	240	-	140	-
DN32	140	153	140	32	300	-	180	-
DN40	165	178	165	38	395	-	200	-
DN50	178	191	216	51	400	-	200	-
DN65	191	203	241	64	435	-	200	-
DN80	203	216	283	76	515	-	250	-
DN100	229	241	305	102	595	-	280	-
DN125	254	267	381	127	725	-	280	-
DN150	267	279	403	152	780	820	300	310
DN200	292	305	419	203	975	1020	350	310
DN250	330	343	457	254	1150	1200	400	310
DN300	356	368	502	305	1380	1430	450	310
DN350	381	394	572	337	1545	1580	500	310
DN400	406	419	610	387	1733	1780	500	460
DN450	432	445	660	438	1915	1991	500	460
DN500	457	470	711	489	2122	2220	600	460
DN600	508	521	813	591	2520	2600	600	460
DN650	559	-	864	633	-	2800	-	600
DN700	610	-	914	684	-	3050	-	600
DN750	610	-	914	735	-	3130	-	600
DN800	711	-	965	779	-	3280	-	600
DN850	762	-	1016	830	-	3500	-	600
DN900	711	-	1016	874	-	3720	-	600

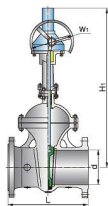
Drawings are for reference only. RKSfluid reserves the right to change product dimensions without notice.



DN15-DN40



DN50-DN80

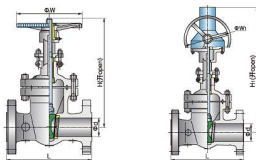


DN100-DN900

CLASS 300 NPS½-NPS36 (PN50 DN15-DN900) Dimensions (mm)

SIZE	L			d	H	H1	W	Wt
	RF	RTJ	BW					
DN15	140	151	140	13	198	-	120	-
DN20	152	165	152	19	215	-	140	-
DN25	165	178	165	25	245	-	160	-
DN32	178	191	178	32	306	-	180	-
DN40	190	203	190	38	400	-	200	-
DN50	216	232	216	51	420	-	200	-
DN65	241	257	241	64	446	-	200	-
DN80	283	298	283	76	537	-	250	-
DN100	305	321	305	102	619	650	280	310
DN125	381	397	381	127	722	750	300	310
DN150	403	419	403	152	806	835	350	310
DN200	419	435	419	203	1000	1030	400	310
DN250	457	473	457	254	1240	1280	450	310
DN300	502	518	502	305	1425	1460	500	310
DN350	762	778	762	337	1585	1620	600	460
DN400	838	854	838	387	1790	1830	500	460
DN450	914	930	914	438	1960	2000	650	460
DN500	991	1010	991	479	2158	2220	750	460
DN600	1143	1165	1143	589	2576	2620	900	600
DN650	1245	1270	1245	635	-	2850	-	600
DN700	1346	1372	1346	686	-	3080	-	600
DN750	1397	1422	1397	737	-	3180	-	600
DN800	1524	1553	1524	779	-	3500	-	600
DN850	1626	1654	1626	830	-	3550	-	600
DN900	1727	1756	1727	874	-	3760	-	600

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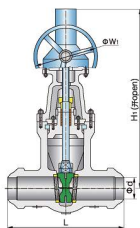
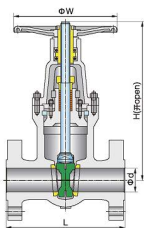

CLASS 600 NPS2-NPS24 (PN100 DN50-DN600) Dimensions (mm)

SIZE	L			d	H	H1	W	W1
	RF	RTJ	BW					
DN50	292	295	292	51	444	-	200	-
DN65	330	333	330	64	500	-	250	-
DN80	356	359	356	76	558	585	280	310
DN100	432	435	432	102	665	695	300	310
DN125	508	511	508	127	760	790	350	310
DN150	559	562	559	152	868	900	450	310
DN200	660	664	660	200	1073	1110	500	310
DN250	787	791	787	248	1263	1300	650	460
DN300	838	841	838	298	1600	1650	700	460
DN350	889	892	889	327	1705	1750	900	460
DN400	991	994	991	375	1835	1900	900	460
DN450	1092	1095	1092	419	-	2020	-	600
DN500	1194	1200	1194	464	-	2172	-	600
DN600	1397	1407	1397	559	-	2650	-	600

CLASS 900 NPS2-NPS16 (PN150 DN50-DN400) Dimensions (mm)

SIZE	L			d	H	H1	W	W1
	RF	RTJ	BW					
DN50	368	371	368	47	500	-	280	-
DN65	419	422	419	57	550	-	280	-
DN80	381	384	381	73	610	660	300	310
DN100	457	460	457	98	702	750	350	310
DN125	559	562	559	121	850	900	400	310
DN150	610	613	610	146	980	1060	500	460
DN200	737	740	737	190	1100	1140	650	460
DN250	838	841	838	234	1320	1370	700	460
DN300	965	968	965	282	1500	1560	900	460
DN350	1029	1038	1029	311	1900	1950	900	600
DN400	1130	1140	1130	354	2050	2100	900	600

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CLASS 1500 NPS2-NPS16 (PN250 DN50-DN400) Dimensions (mm)

SIZE	L			d	H	H1	W	W1
	RF	RTJ	BW					
DN50	368	371	368	47	510	-	280	-
DN65	419	422	419	57	560	-	300	-
DN80	470	473	470	70	620	670	350	310
DN100	546	549	546	92	728	770	400	310
DN125	673	676	673	111	870	920	450	310
DN150	705	711	705	136	1000	1070	500	460
DN200	832	841	832	174	1130	1180	750	460
DN250	991	1000	991	222	1360	1410	900	600
DN300	1130	1146	1130	263	-	1620	-	600
DN350	1257	1276	1257	289	-	2020	-	600
DN400	1384	1407	1384	330	-	2180	-	600

CLASS 2500 NPS2-NPS12 (PN420 DN50-DN300) Dimensions (mm)

SIZE	L			d	H	H1	W	W1
	RF	RTJ	BW					
DN50	451	454	451	35	530	580	280	310
DN65	508	514	508	47	580	630	300	310
DN80	578	584	578	57	650	700	350	310
DN100	673	683	673	73	750	800	400	310
DN125	794	807	794	92	900	960	500	460
DN150	914	927	914	111	1040	1100	600	460
DN200	1022	1038	1022	146	1150	1200	750	460
DN250	1270	1292	1270	184	1400	1460	900	600
DN300	1422	1445	1422	219	-	1660	-	600

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