Canadian Stream Valve

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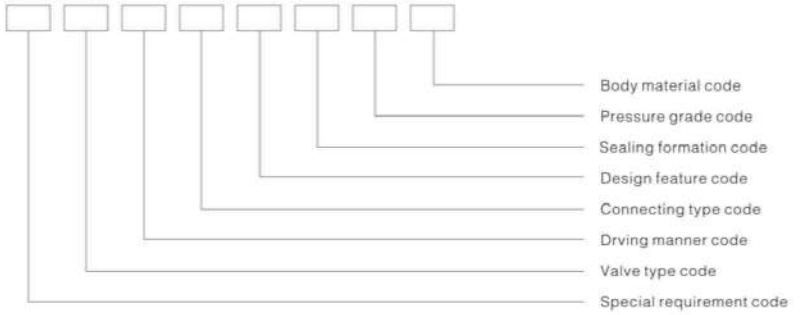
Valve Type Compilation Mode

Model schedule illustration

The valve type is made up of 8 units, as shown in the figure. The nominal pressure codes use the dimensionless numbers of ten times MPa.



The commonly used valves use Arabic numbers as unit codes

Code	0	1	2	3	4	5	6	7	8	9
OperatingMode	Electro magnetic	Electro-hydraulic	Electrical-hydraulic	Gear	Spur gear	Bevel Gear	Pneumatic	Hydraulic	Pneumatic-hydraulic	Electrical
Connection		Inside screw	Outside screw		Flange		Welding	Wafer	Union ring	Compression joint
Type	Construction Type									
Valve Type Z		Rising Stem				Non-Rising Stem				
		Wedge type		Parallel type		Wedge type		Parallel type		
	Flexible	Rigid disc								
		Single	Double	Single	Double	Single	Double	Single	Double	
J		Non Balanced Disc				Balanced Disc				
		Through way	Type	Tee	Angled	Straight flow	Through way	Angled		
Q	(Trunnion Mounted Ball) Hemisphere Straight	Floating type				Trunnion-mounted				
		Through way	Y-Pattern Tee		L-Pattern Tee	T-Pattern Tee	Four-Way L Type	Through way	T-Pattern Tee	L-Pattern Tee
D		Seal type				NonSeal type				
	Single-eccentric	Center Vertical	Bi-eccentric	Tri-eccentric	Link mechanism	Single-eccentric	Center Vertical	Bi-eccentric	Tri-eccentric	Link mechanism
H		Lift Disc			Swing Disc			Butterfly		
		Through way	Vertical type	Angle type	Single-plate	Multi-disc	Double disc			

Note: The operating mode code of the valve with the hand wheel directly connects with the stem operating structure is omitted; such as safety valve, relief valve and trap.

Valve Code Table

Valve Type Code

Valve Type	code	Valve Type	code
Spring Loaded Safety Valve	A	Drain Valve	P
Butterfly Valve	D	Ball Valve	Q
Diaphragm Valve	G	Steam Trap	S
Lever Safety Valve	GA	Plunger Valve	U
Check Valve & Foot Valve	H	Plug Valve	X
Globe Valve	J	Relief Valve	Y
Choke Valve	L	Gate Valve	Z

Material Code of Sealing Surface or Lining

Material of Sealing Surface or Lining	code	Material of Sealing Surface or Lining	code
Hoyt's Metal (Babbitt Metal)	B	Nylon	N
Enamel	C	Boronized Steel	P
Nitrided Steel	D	Lead Lining	Q
Fluoroplastic	F	Austenitic Stainless Steel	R
Ceramic	G	Plastic	S
Cr13 Stainless Steel	H	Copper Alloy	T
Rubber Lining	J	Rubber	X
Monel	M	Hard Alloy	Y

Note: When the valve sealing material is the body material, "W" is used as the material code of the sealing surface.

Body Material Code

Body Material	code	Body Material	code
Carbon Steel	C	Chromium-Nickel-Molybdenum Stainless Steel	R
Cr13 Stainless Steel	H	Plastic	S
Chromium-Molybdenum Steel	I	Copper & Copper Alloy	T
Malleable Iron	K	Titanium & Titanium Alloy	Ti
Aluminum Alloy	L	Chromium-Molybdenum-Vanadium Steel	V
Chromium-Nickel Stainless Steel	P	Gray Iron	Z
Ductile Iron	Q	——	-
The material can be directly marked on the body; such as CF3, CF8, CF3M, CF8M and etc.			

Note: 1. The body material code of the gray iron valve PN≤1.6MPa is omitted when the type is compiled.
2. The body material code of the carbon steel valve PN≥2.5MPa is omitted when the type is compiled.

Standard

No.	Specification & Standard Number	Specification & Standard Name
1	JB/T7928-2014	Industrial Valve Supply Requirement
2	GB/T12221-2005	Metal Valve Face to Face Dimension
3	GB/T12224-2005	Steel Valve General Requirement
4	GB/T12234-2007	Bolted Bonnet Steel Gate Valve for the Petroleum & Natural Gas Industry
5	GB/T12235-2007	Steel Globe Valve and Lift Check Valve for the Petroleum, Petrochemical & Related Industry
6	GB/T12236-2008	Steel Swing Check Valve for the Petroleum, Petrochemical & Related Industry
7	GB/T12237-2007	Steel Ball Valve for the Petroleum, Petrochemical & Related Industry
8	GB/T12238-2008	Flange and Wafer Type Elastic Sealing Butterfly Valve
9	GB/T12239-2008	Industrial Valve Metal Diaphragm Valve
10	GB/T12241-2005	Safety Valve General Requirement
11	GB/T13927-2008	Industrial Valve Pressure Test
12	JB/T79-1994	Integral Cast Steel Pipe Flange
13	JB/T450-2008	Forged Angle Type High Pressure Valve Technical Requirement
14	JB/T3595-2002	Power Station Valve General Requirement
15	JB/T5298-1991	Steel Through Conduit Gate Valve for the Pipeline
16	JB/T6446-2004	Vacuum Valve
17	JB/T8527-1997	Metal Sealing Butterfly Valve
18	JB/T9092-1999	Valve Test & Inspection
19	SH3064-2003	General Petrochemical Steel Valve Selection Inspection & Check
20	API 594-2010	Flange, Lug, Wafer & Butt Weld Type Check Valve
21	API 598-2009	Valve Inspection & Test
22	API 600-2009	Steel Gate Valve - Flanged End & Butt Welded End, Bolted Bonnet
23	API 602-2009	Steel Gate Valve, Globe Valve & Check Valve of Nominal Dimension ≤DN100 for the Petroleum & Natural Gas Industry
24	API 6D-24	Pipeline & Pipe Valve Specification
25	ASME B16.5-2009	Pipe Flange & Flanged Pipe Fitting
26	ASME B16.10-2009	Face to Face & End to End Dimension of the Valve
27	ASME B16.34-2013	Flange, Thread & Weld Type Valve
28	JIS B2002	Face to Face & End to End Dimension of the Valve
29	JIS B2212	10kgf/cm^2 Standard Dimension of Steel Pipe Flange
30	JIS B2214	20kgf/cm^2 Standard Dimension of Steel Pipe Flange
31	JIS B2217	63kgf/cm^2 Standard Dimension of Steel Pipe Flange

Standard Code & Name

Standard code

Standard Code	Name	Standard Code	Name
GB	International Standard	GB/T	International Recommended Standard
GBn	National Standard (Interior Publication)	GJB	National Military Standard
ZB	Industrial Standard (Professional Standard)	ZBn	Industrial Standard (Interior Publication)
ZJB	Professional Military Standard	CVA	China Valve Industry Standard
JB/Z	(Original) Ministry of Mechanical Industry Guidance Document	EJ	(Original) Ministry of Nuclear Industry Standard
YB	Ministry of Metallurgical Industry Standard	HG	Ministry of Chemical Industry Standard
SY	(Original) Ministry of Petroleum Industry Standard	SD	Ministry of Water Power & Electric Power Standard
MT	Ministry of Coal Industry Standard	HB	Ministry of Aerospace Industry Standard
QJ	Ministry of Aerospace Industry Standard	QB、SG	Ministry of Light Industry Standard
JZ、JG	Ministry of Urban & Rural Environmental Protection Standard	CB	China Shipbuilding Corporation Standard
LD	Ministry of Labor & Personnel Standard	JC	National Building Material Bureau Standard
JJC	National Metrology Bureau Standard	CAS	Standard of China Association for Standardization
H	General Design Standard of High Pressure Pipe, Pipe Fitting & Fastener		
JB/TQ	Internal Standard of General Machinery Industry of the Ministry of Machinery & Electronics Industry		
Q/TH	Professional Standard of Chemical General Machinery of the (Original) Ministry of Mechanical Industry		
JB	Mechanical Industry Standard (Original) Ministry of Mechanical Industry		

Major International Standard Code & Name

Standard Code	Name	Standard Code	Name
IS0	International Standard	ANSI	American National Standard
BS	British Standard	DIN	German National Standard
NF	French National Standard	AWWA	American Water Works Association Standard
API	American Petroleum Institute Standard	ASME	American Society of Mechanical Engineers Standard
AISI	American Iron and Steel Institute Standard	AWS	American Welding Society Standard
ASI	American National Standards Institute Standard	JIS	Japanese Industrial Standard
MIL	American Military Standard	JPI	Japan Petroleum Institute Standard
MSS	Manufacturers Standardization Society of the Valve and Fittings Industry Standard		

Valve Commonly Used Metal Material (For Your Reference)

Name	ASTM	JIS	GB	Medium	Temperature
Cast Carbon Steel	ASTM A216 WCA	G5151-SCPH1	GB/T12229 WCA	Water, Oil, Steam	-29~425
	ASTM A216 WCB	G5151-SCPH2	GB/T 12229 WCB	Water, Oil, Steam	-29~425
	ASTM A216 WCC		GB/T 12229 WCC	Water, Oil, Steam	-29~425
Cast Alloy Steel	ASTM A217 WC5		ZG20CrMo Q/ZB66	Steam	≤565
	ASTM A217 WC6		WC6、ZG15CrMo	Steam、Acid-Base	≤595
	ASTM A217 WC9	G5151-SCPH-32	WC9、ZG15Cr2Mo1V	Steam、Acid-Base	≤595
Cast Martensitic Stainless Steel	ASTM A217 C5	G5151-SCPH-61	C5、ZG1Cr5Mo	Steam,Oil	≤650
	ASTM A217 C12		C12、(ZG15Cr9Mo1)	Steam,Oil	≤650
	ASTM A296 CA15	G5121-SCS1-T2	ZG1Cr13GB2100	Water, Steam, Oil	-20~480
	ASTM A296 CA40	G5121-SCS2	ZG2Cr13GB2100	Water, Steam, Oil	-20~450
Cast Austenitic Stainless Steel for High Temperature	ASTM A351 CF8	G5121-SCS13	ZG0Cr18Ni9GB12230	Steam,Nitric Acid	≤455(540)
	ASTM A351 CF8M	G5121-SCS14	ZG0Cr18Ni12Mo2	Steam, Nitric Acid, Acetic Acid	≤425(540)
	ASTM A351 CF3	G5121-SCS19	ZG00Cr18Ni10	Urea, Nitric Acid	≤425
	ASTM A351 CF3M	G5121-SCS16	ZG00Cr17Ni14Mo2	Urea, Potassium Ammonium Solution	≤455
	ASTM A351 CN7M	G5122-SCS23	ZG0Cr20Ni29Cu4Mo2	Vitriol, Hydrofluoric Acid	≤450
Cast Ferrite Steel for Cryogenic Pressure Component	ASTM A352 LCB	SG152-SCPL1	ZG25Mn		-46
	ASTM A352 LCC		ZG20SiMn		-46
	ASTM A352 LC1	G5152-SCPL11	ZG20MnMo		-59
	ASTM A352 LC2	G5152-SCPL21	ZG2.5Ni		-73~200
	ASTM A352 LC3	G5152-SCPL31	ZG3.5Ni	Gas, Methanol	-101~200
Forged Carbon Steel & Alloy Steel for Low Temperature	ASTM A350 LF1	-	25Mn		-46
	ASTM A350 LF2	-	20Mn2		-60
	ASTM A350 LF3	-	3.5Ni		-101
Forged Austenitic Steel for Cryogenic Pressure Component	ASTM A182 F304	G4303-SUSF304	0Cr18Ni9		-254~540
	ASTM A182 F321	G4303-SUSF321	0Cr18Ni9Ti		-196~540
	ASTM A182 F316	G4303-SUSF316	0Cr17Ni12Mo2		-254~540
	ASTM A182 F316L	G3214-SUSF316L	00Cr17Ni14Mo2		-254~540
	ASTM A182 F304L	G3214-SUSF304L	00Cr19Ni11		-254~425

Valve Commonly Used Non-Metal Material (For Your Reference)

No.	Name	Code	Temperature	Medium
1	Natural Rubber	NR	-50~80	Salt, hydrochloric acid, metal coating solution, water, wet chlorine
2	Chloroprene Rubber	CR	-40~80	Animal oil, vegetable oil, inorganic lubricating oil, and corrosive slurry with changeable PH value
3	Butyl Rubber	IIR	-30~100	Corrosion resistant, wear resistant, resistant to most of the inorganic acid and acid solution
4	Nitrile Butadiene Rubber	NBR	-30~90	Water, oil, waste solution and etc.
5	Ethylene Propylene Rubber (Ethylene Propylene Diene Monomer)	EPDM (EPM)	-40~120	Brine, 40% boron water, 5%~15% nitric acid, sodium chloride and etc.
6	Chlorinated Polyethylene Synthetic Rubber	CSM	-20~100	Good acid resistant
7	Silicone Rubber	SI	-70~200	High temperature resistant, low temperature resistant, good electrical insulation, large chemical inertia
8	Fluororubber	FPM (Viton)	-23~200	Resistant to the medium corrosion is better than other rubbers, radiation resistant, acid resistant
9	Polytetrafluoroethylene	PTFE (TFE)	-196~200	Excellent heat resistant & cold resistant, resistant to general chemical solvents and almost all liquids
10	Fusible Polytetrafluoroethylene	PFA Fs-4100	≤180	Various concentrations of sulfuric acid, hydrofluoric acid, aqua regia, high temperature concentrated nitric acid, various organic acids, alkali and etc.
11	Poly Fluorinated Ethylene Propylene	FEP (F46)	≤150	Excellent chemical resistant, sunlight resistant & weather resistant under high temperature
12	Polyvinylidene Fluoride	PVDF (F2)		Excellent chemical resistant, sunlight resistant & weather resistant; It is the fluoroplastic with highest intensity and hardest.
13	Polytrifluoroethylene	PCTFE (F3)	≤190	Excellent chemical resistant, sunlight resistant & weather resistant; It can be continuous used under 198℃. Its intensity and hardness is higher than F46 and PTFE.
14	Polyolefins	PO	≤100	
15	Polypropylene	PP	-15~110	Excellent chemical resistant & stress cracking resistant, bad weather resistant
16	Polyetheretherketone	PEEK	-46~300	The corrosion resistant is similar to nickel steel. Only concentrated sulfuric acid can dissolve it.
17	Polyphenylene	PP1	≤300	Generally similar to PTFE
18	Nylon (Polyamide)	NYLON	≤80	Resistant to alkali & ammonia

Note:
(1) The applicable temperature in the table is recommended safety used temperature. The applicable temperature is different according to different sealing surface structure and stress.
(2) The applicable temperature range in the table is the general range of this kind of product. Each kind of product has many types. The applicable temperature is different. Moreover, the recommended applicable temperature range is different under different condition.
(3) The name in the table is the general name of this kind of material. Each kind of material has many types. The performance is different. For example: Nylon has Nylon 1010, Nylon 6, Nylon 66 and etc.; NBR has NBR 18, NBR 26, NBR 40 and etc. Please pay attention to the different performance when you choose.
(4) The fluoroplastic has cold flow tendency. It means that will flow when the stress reaches to a certain value. For example: PTFE will flow and invalid under a certain stress, if the protective measure of the structure is not considered.
(5) The recommended applicable medium range in the table is also general. Please check the compatibility data between the material and the medium when you use.

Canadian Stream Valve

Globe valve

Products design features

Globe valve are used to cut or connect the pipe media under nominal pressure between PN1.6 – 16.0MPa(Class150 – 2500), working temperatures ≤600℃. in oil industry, chemical industry,pharmaceuticals, fertilizer, and power industry.

The main structure features include:

1、Rational structure, reliable sealing, excellent performance, pretty appearance.

2、Co-radix alloy welded sealing surface, anti-wearing, erosion-proof abrasion-proof and longer use life.

3、The surface and the adjusting media of the valve shaft are nitrogenized so that it is erosion and abrasion resistant.

4、PN≥25.0MPa (class1500), the middle cavity uses a self-tightening sealing structure to have the sealing performance reinforced along with the pressure rise so as to ensure the sealing performance.

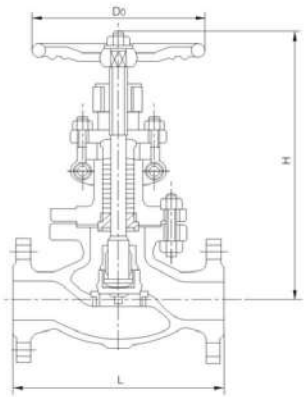
5、There is no backward sealing structure in the valve, so the sealing id reliable.

6、The material of the filling and the flange size can be chosen and matched according to the applications and the requirements of the use's. That can satisfies all kinds of working requirements.

Products performance specification

Pressure Grade		Testing pressure at constant temperature (MPa)			Applicable temperature	Applicable medium
		The shell testing	Seal and test	Have and seal testing		
(MPa) Nominal rating pressure (PN)	1.6	2.4	1.76	1.76	-196 – 600℃	Water, oil, steam,etc.
	2.5	3.75	2.75	2.75		
	4.0	6.0	4.4	4.4		
	6.4	9.6	7.04	7.04		
	10.0	15.0	11.0	11.0		
	16.0	24.0	17.6	17.6		
	25.0	37.5	27.5	27.5		
(Lb) Pound grade (Class)	150	3.0	2.2	2.2		
	300	7.5	5.5	5.5		
	600	15.0	11.0	11.0		
	900	22.5	16.5	16.5		
	1500	37.5	27.5	27.5		
	2500	63.0	46.2	46.2		

API、JIS Globe Valve



Application Specificastion

1. Design Manufacfure According to BS 1873
2. Face to Face According to ASME B16.10
3. End Flange Dimension According to ASME B16.5 JIS B2212~B2214
4. Valve Check and Test According to API STD.598

Main Parts Material and Application

Body	Body Cap	Clack	Seat	Stem	Paking	Applicable Medium	(≤℃) Applicable temperature
WCB	WCB	A105+Stellite12	A105+D507Mo	410	Expanded graphite	Water, Stem, Oil	425
WC6	WC6	WC6+Stellite12	WC6+Stellite6	25Cr2Mo1VA	Expanded graphite	Water, Stem, Oil	540
WC9	WC9	WC9+Stellite12	WC9+Stellite6	25Cr2Mo1VA	Expanded graphite	Water, Stem, Oil	570
CF8	CF8	F304	F304	F304	PTFE braiding	Corrosive medium like nitric acid	200
CF8M	CF8M	F316	F316	F316	PTFE braiding	Acetic acid like nitric acid	200
CF3	CF3	F304L	F304L	F304L	PTFE braiding	Medium with strong oxidizability	200
CF3M	CF3M	F316L	F316L	F316L	PTFE braiding	Urea like nitric acid	200

API、JIS Globe Valve

150Lb、Main Connection Dimensions and Weight

Nominal Diameter	in	1/2	3/4	1	1¼	1½	2	2½	3	4	5	6	8	10	12
	mm	15	20	25	32	40	50	65	80	100	125	150	200	250	300
L	mm	108	117	127	140	165	203	216	241	292	356	406	495	622	698
H	mm	241	241	242	280	286	386	387	411	454	455	541	654	802	970
Do	mm	125	125	125	160	160	200	200	250	250	355	355	450	500	500
(kg) Weight	kg	–	–	–	–	–	18	30	41	64	86	113	115	295	450

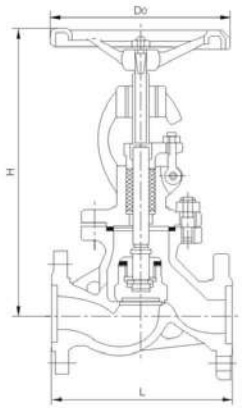
300Lb、Main Connection Dimensions and Weight

Nominal Diameter	in	1/2	3/4	1	1¼	1½	2	2½	3	4	5	6	8	10	12
	mm	15	20	25	32	40	50	65	80	100	125	150	200	250	300
L	mm	152	178	203	216	229	267	292	318	356	400	444	559	622	711
H	mm	241	241	283	320	322	399	438	464	565	614	717	930	1150	1420
Do	mm	125	125	160	200	200	200	250	280	355	400	450	500	500	560
(kg) Weight	kg	–	–	–	–	–	25	30	35	56	96	120	212	460	615

600Lb Main Connection Dimensions and Weight

Nominal Diameter	in	1/2	3/4	1	1¼	1½	2	2½	3	4	5	6	8	10	12
	mm	15	20	25	32	40	50	65	80	100	125	150	200	250	300
L	mm	165	190	216	229	241	292	330	356	432	508	559	660	787	838
H	mm	156	161	187	214	252	430	480	530	650	750	850	1050	1280	1535
Do	mm	125	125	160	200	200	200	250	280	355	400	450	500	560	650
(kg) Weight	kg	–	–	–	–	–	35	50	60	110	200	230	410	770	1140

GB Globe Valve



Application Specificastion

1. Design Manufacfure According to GB 12235
2. Face to Face According to GB 12221
3. End Flange Dimension According to JB/T79
4. Valve Check and Test According to JB/T 9092

Main Parts Material and Application

Body	Body Cap	Clack	Seat	Stem	Paking	Applicable Medium	(≤℃) Applicable temperature
WCB	WCB	25+Stellite12	25+D507Mo	2Cr13	Expanded graphite	Water, Stem, Oil	425
WC6	WC6	25Cr2Mo1VA+Stellite12	25Cr2Mo1VA+Stellite6	25Cr2Mo1VA	Expanded graphite	Water, Stem, Oil	540
WC9	WC9	25Cr2Mo1VA+Stellite12	25Cr2Mo1VA+Stellite6	25Cr2Mo1VA	Expanded graphite	Water, Stem, Oil	570
ZG1Cr18Ni9Ti	ZG1Cr18Ni9Ti	ZG1Cr18Ni9Ti	ZG1Cr18Ni9Ti	ZG1Cr18Ni9Ti	PTFE braiding	Corrosive medium like nitric acid	200
ZG1Cr18Ni12Mo2Ti	ZG1Cr18Ni12Mo2Ti	1Cr18Ni12Mo2Ti	1Cr18Ni12Mo2Ti	1Cr18Ni12Mo2Ti	PTFE braiding	Acetic acid like nitric acid	200
ZG00Cr18Ni10	ZG00Cr18Ni10	00Cr18Ni10	00Cr18Ni10	00Cr18Ni10	PTFE braiding	Medium with strong oxidizability	200
ZG00Cr17Ni14Mo2	ZG00Cr17Ni14Mo2	00Cr17Ni14Mo2	00Cr17Ni14Mo2	00Cr17Ni14Mo2	PTFE braiding	Urea like nitric acid	200

GB Globe Valve

1.6MPa Main Connection Dimensions and Weight

Nominal Diameter	DN	15	20	25	32	40	50	65	80	100	125	150	200	250	300	350	400
L	mm	130	150	160	180	200	230	290	310	350	400	480	600	650	750	850	950
H	mm	200	243	253	280	312	321	325	355	415	460	510	700	975	1115	1250	1380
D_0	mm	120	140	140	160	200	220	260	280	300	350	450	500	550	600	700	800
(kg) Weight	kg	5	6.5	7	13.5	16	32	45	60	82	107	134	268	449	663	750	1170

2.5MPa Main Connection Dimensions and Weight

Nominal Diameter	DN	15	20	25	32	40	50	65	80	100	125	150	200	250	300	350	400
L	mm	130	150	160	180	200	230	290	310	350	400	480	600	650	750	850	950
H	mm	200	243	253	280	312	321	325	355	415	460	510	700	975	1115	1250	1380
D_0	mm	120	140	140	160	200	220	260	280	300	350	450	500	550	650	750	850
(kg) Weight	kg	5	6.5	7	13.5	16	32	45	60	84	110	139	273	458	682	812	1205

4.0MPa Main Connection Dimensions and Weight

Nominal Diameter	DN	15	20	25	32	40	50	65	80	100	125	150	200	250	300	350	400
L	mm	130	150	160	180	200	230	290	310	350	400	480	600	650	750	850	950
H	mm	200	243	253	280	312	321	325	355	415	460	510	700	975	1115	1250	1380
D_0	mm	140	160	160	180	200	260	280	300	350	400	450	600	600	700	800	900
(kg) Weight	kg	5	6.5	7	13.5	16	32	45	60	84	110	139	278	468	699	837	1312

6.4MPa Main Connection Dimensions and Weight

Nominal Diameter	DN	15	20	25	32	40	50	65	80	100	125	150	200	250	300
L	mm	170	190	210	230	260	300	340	380	430	500	550	650	775	900
H	mm	195	228	250	325	360	41	450	485	537	646	840	925	1015	1200
D_0	mm	160	180	200	–	220	260	280	320	350	400	500	–	–	–
(kg) Weight	kg	10	13	15	–	19	25	35	48	56	125	157	–	–	–

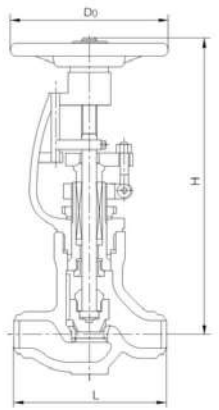
10.0MPa Main Connection Dimensions and Weight

Nominal Diameter	DN	15	20	25	32	40	50	65	80	100	125	150	200	250	300
L	mm	170	190	210	230	260	300	340	380	430	500	550	650	775	900
H	mm	195	228	250	325	360	41	450	485	537	646	840	925	1015	1200
D_0	mm	160	180	200	220	240	280	320	350	400	450	500	600	700	800
(kg) Weight	kg	10	12	17	25	30	40	68	92	107	–	310	590	850	1040

16.0MPa Main Connection Dimensions and Weight

Nominal Diameter	DN	15	20	25	32	40	50	65	80	100	125	150	200
L	mm	170	190	210	230	260	300	340	380	430	500	550	650
H	mm	195	228	250	325	360	41	450	485	537	646	840	925
D_0	mm	160	180	200	220	240	280	320	350	400	450	500	600
(kg) Weight	kg	–	–	–	–	–	–	–	–	–	–	–	–

Cast Steel Globe Valve



Application Specificastion

1. Design Manafacfure According to JB3595
2. Face to Face According to JB3595
3. Connection end conforms to JB355 or user's requirements
4. Valve Check and Test According to JB3595

Structure

P.B；OS&Y

Main Material

WCB、WC6、WC9

Dimensions and Weights

J61Y-250

Spec	L	H≈	D_0	Weight (kg)
65	340	680	400	150
80	390	820	510	160
100	480	910	560	240
125	580	985	610	270
150	630	1105	800	440

J61Y-320、J61Y-P54140V

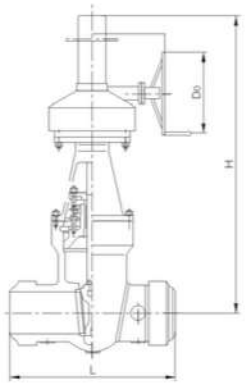
Spec	L	H≈	D_0	Weight (kg)
65	420	815	510	160
80	470	895	560	200
100	570	975	610	270
125	660	1045	700	340
150	760	1246	800	470

Note：If conforming to user's requirements, they should be noted in the contract.

Main Parts Material and Application

Body	Body Cap	Clack	Seat	Stem	Paking	Applicable Medium	(≤℃) Applicable temperature
WCB	WCB	25+Stellite12	25+D507Mo	25Cr2Mo1VA	Expanded graphite	Water, Stem, Oil	425
WC6	WC6	25Cr2Mo1VA+Stellite12	25Cr2Mo1VA+Stellite12	25Cr2Mo1VA	Expanded graphite	Water, Stem, Oil	540
WC9	WC9	25Cr2Mo1VA+Stellite12	25Cr2Mo1VA+Stellite12	25Cr2Mo1VA	Expanded graphite	Water, Stem, Oil	570

Cast Steel Globe Valve



Application Specificastion

1. Design Manafacfure According to ASME B16.34 or E101
2. Face to Face According to ASME B16.10 or E101
3. Connection end conforms to ASME B16.25 or user's requirements (noted in the contract).
4. Valve Check and Test According to ASME B16.34 or E101

Structure

P.B：OS&Y

Main Material

WCB、WC6、WC9

Dimensions and Weights

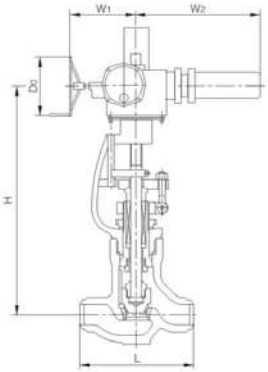
Spec		900Lb				1500Lb					2000、2500Lb				2000Lb	2500Lb
inch	DN	L	H≈	D0	(kg) Weight	L B16.10	L E101	H≈	D0	(kg) Weight	L B16.10	L E101	H≈	D0	(kg) Weight	(kg) Weight
2	50	216	680	315	120	216	–	680	315	130	279	–	680	315	140	145
2½	65	254	750	355	165	254	340	750	355	180	330	420	840	510	190	250
3	80	305	784	400	220	305	390	784	400	280	368	470	940	610	300	342
4	100	356	1088	450	280	406	480	1088	450	310	457	570	1100	610	410	485
6	150	508	1273	610	520	559	630	1340	710	656	610	760	1400	800	500	680
8	200	660	1715	710	850	711	711	1750	800	1220	762	890	–	–	–	–

* Adopt separate valve seat for 3" above.

Main Parts Material and Application

Body	Body Cap	Clack	Seat	Stem	Paking	Applicable Medium	(≤℃) Applicable temperature
WCB	WCB	25+Stellite12	25+D507Mo	25Cr2Mo1VA	Expanded graphite	Water, Stem, Oil	425
WC6	WC6	25Cr2Mo1VA+Stellite12	25+D507Mo	25Cr2Mo1VA		Water, Stem, Oil	540
WC9	WC9	25Cr2Mo1VA+Stellite12	25+D507Mo	25Cr2Mo1VA	Expanded graphite	Water, Stem, Oil	570

Electric Globe Valve



Application Specificastion

1. Design Manafacfure According to JB3595
2. Face to Face According to JB3595
3. Connection end conforms to JB355 or user's requirements
4. Valve Check and Test According to JB3595

Structure

P.B：OS&Y

Main Material

WCB、WC6、WC9

Dimensions and Weights

J961Y–250

Spec	H≈	D0*	W1*	W2*	(N.m)	(kg) Weight
50	–	310	320	348	300	250
65	737	310	320	348	300	250
80	1030	310	320	348	450	300
100	1030	310	432	466	900	490
150	1130	460	415	525	1500	642
200	1400	610	477	632	3000	872

J961Y–320、J961Y–320V、J961Y–P54140V

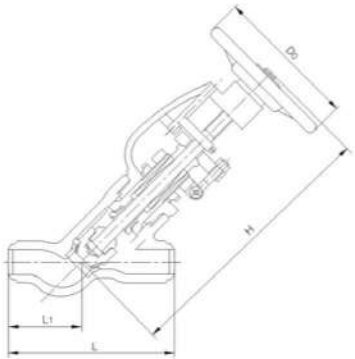
Spec	H≈	D0*	W1*	W2*	(N.m)	(kg) Weight
50	750	310	348	320	300	300
65	980	310	348	322	450	390
80	1130	310	466	432	900	430
100	1230	460	525	415	1500	640
150	1510	610	632	477	3000	872
200	–	–	–	–	–	–

Note: 1. *W1, W2 and D0 dimensions are all reference values.
2. Built–up welding sealing surface is adopted for specifications below DN100.
3. If conforming to user's requirements, they should be noted in the contract.

Main Parts Material and Application

Body	Body Cap	Clack	Seat	Stem	Paking	Applicable Medium	(≤℃) Applicable temperature
WCB	WCB	25+Stellite12	25+D507Mo	25Cr2Mo1VA	Expanded graphite	Water, Stem, Oil	425
WC6	WC6	25Cr2Mo1VA+Stellite12	25Cr2Mo1VA+Stellite12	25Cr2Mo1VA	Expanded graphite	Water, Stem, Oil	540
WC9	WC9	25Cr2Mo1VA+Stellite12	25Cr2Mo1VA+Stellite12	25Cr2Mo1VA	Expanded graphite	Water, Stem, Oil	570

Y Type Globe Valve



Application Specificastion

1. Design Manafacfure According to ASME B16.34 or E101
2. Face to Face According to ASME B16.10 or E101
3. Connection end conforms to ASME B16.25 or user's requirements (noted in the contract).
4. Valve Check and Test According to ASME B16.34 or E101

Structure

P.B；OS&Y

Main Material

WCB、WC6、WC9

Dimensions and Weights

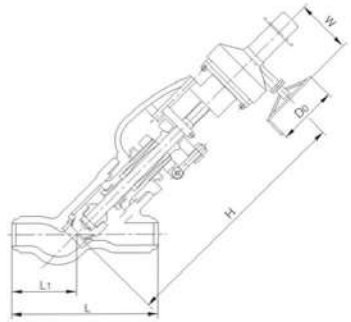
Spec		2500Lb					(kg) Weight
inch	DN	L		L_1	H≈	D_0	
		B16.10	E101				
2	50	279	–	120	550	300	42
$2^1/_2$	65	330	420	130	670	300	68

Note: If L size adopts E101, it should be noted in the contract for goods.

Main Parts Material and Application

Body	Body Cap	Clack	Seat	Stem	Paking	Applicable Medium	(≤℃) Applicable temperature
WCB	WCB	25+Stellite12	25+D507Mo	25Cr2Mo1VA	Expanded graphite	Water, Stem, Oil	425
WC6	WC6	25Cr2Mo1VA+Stellite12	25Cr2Mo1VA+Stellite12	25Cr2Mo1VA	Expanded graphite	Water, Stem, Oil	540
WC9	WC9	25Cr2Mo1VA+Stellite12	25Cr2Mo1VA+Stellite12	25Cr2Mo1VA	Expanded graphite	Water, Stem, Oil	570

Y Type Globe Valve



Application Specificastion

1. Design Manafacfure According to JB3595
2. Face to Face According to JB3595
3. Connection end conforms to JB355 or user's requirements
4. Valve Check and Test According to JB3595

Structure

P.B；OS&Y

Main Material

WCB、WC6、WC9

Dimensions and Weights d Weights

J565Y–320

Spec	L	L_1	H≈	D_0	W	(kg) Weight
80	–	–	–	–	–	–
100	457	170	870	308	318	214
125	533	195	995	308	318	303
150	610	200	1025	308	397	470
200	762	260	1505	460	412	980
250	914	300	1825	460	451	1280
300	1041	360	2300	610	456	2714
350	–	–	–	–	–	–

J565Y–P54140V

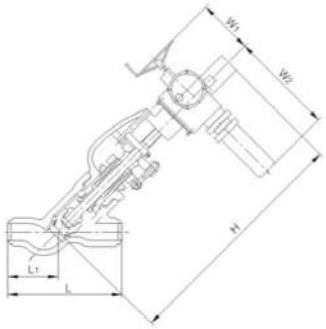
Spec	L	L_1	H≈	D_0	W	(kg) Weight
80	390	140	750	308	263	121
100	480	170	870	308	318	212
125	580	195	995	460	333	312
150	630	200	1205	610	417	511
200	770	260	1565	610	417	1060
250	930	300	1870	610	456	1380
300	1060	360	2335	760	773	2824
350	1160	395	2515	760	773	3624

Note：If conforming to user's requirements, they should be noted in the contract.

Main Parts Material and Application

Body	Body Cap	Clack	Seat	Stem	Paking	Applicable Medium	(≤℃) Applicable temperature
WCB	WCB	25+Stellite12	25+D507Mo	25Cr2Mo1VA	Expanded graphite	Water, Stem, Oil	425
WC6	WC6	25Cr2Mo1VA+Stellite12	25Cr2Mo1VA+Stellite12	25Cr2Mo1VA	Expanded graphite	Water, Stem, Oil	540
WC9	WC9	25Cr2Mo1VA+Stellite12	25Cr2Mo1VA+Stellite12	25Cr2Mo1VA	Expanded graphite	Water, Stem, Oil	570

Y Type Globe Valve



Application Specificastion

1. Design Manafacfure According to ASME B16.34 or E101
2. Face to Face According to ASME B16.10 or E101
3. Connection end conforms to ASME B16.25 or user's requirements (noted in the contract).
4. Valve Check and Test According to ASME B16.34 or E101

Structure

P.B；OS&Y

Main Material

WCB、WC6、WC9

Dimensions and Weights

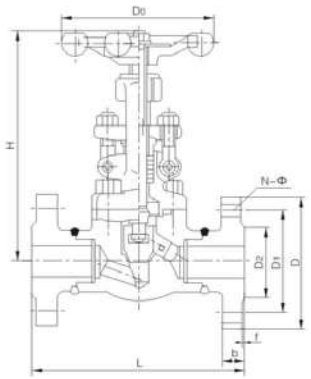
Spec		200Lb						(kg) Weight	(N.m)
inch	DN	L		L1	H≈	W1	W2		
		B16.10	E101						
2	50	279	–	120	810	156	348	130	300
2½	65	330	420	130	895	156	348	160	450
3	80	368	470	140	995	427	466	217	900
4	100	457	570	170	990	415	525	334	1500
5	125	533	660	195	1115	415	525	432	3000
6	150	610	760	200	1280	477	632	652	3000
8	200	762	890	260	1615	477	632	1122	3000
10	250	914	1090	300	1930	540	785	1652	6200
12	300	1041	1230	360	2240	565	874	2862	11550
14	350	1118	–	395	2420	565	874	3662	11550

Note: If L size adopts E101, it should be noted in the contract for goods.

Main Parts Material and Application

Body	Body Cap	Clack	Seat	Stem	Paking	Applicable Medium	(≤℃) Applicable temperature
WCB	WCB	25+Stellite12	25+D507Mo	25Cr2Mo1VA	Expanded graphite	Water, Stem, Oil	425
WC6	WC6	25Cr2Mo1VA+Stellite12	25Cr2Mo1VA+Stellite12	25Cr2Mo1VA	Expanded graphite	Water, Stem, Oil	540
WC9	WC9	25Cr2Mo1VA+Stellite12	25Cr2Mo1VA+Stellite12	25Cr2Mo1VA	Expanded graphite	Water, Stem, Oil	570

Forged steel flange globe valve



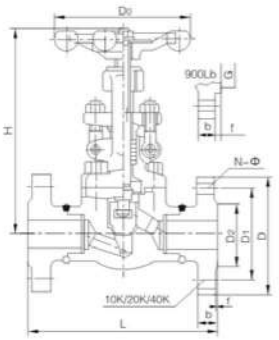
Application Specificastion

1. Design Manufacfure According to API 602
2. Face to Face According to ASME B 16.10
3. End Flange Dimension According to ASME B16.5; JIS B2212–B2214
4. Valve Check and Test According to API 598

150/300/600 Main Connection Dimensions and Weight

DN Spec		Pressure Grade	L	H Open		D0		D2	D1	D	b	f	N-Φ	(kg) Weight	
(in) English system	Metric system			Reduced bore	Full bore	Reduced bore	Full bore							Reduced bore	Full bore
1/2	15	150	108	158	163	100	100	35	60.3	89	10	1.6	4–15	4.5	6.9
		300	152					35	66.7	95	14.5	1.6	4–16	4.8	7.7
		600	165					35	66.7	95	14.5	6.4	4–15	5.6	7.8
3/4	20	150	117	163	193	100	125	43	69.9	98	10.5	1.6	4–15	6.9	9.8
		300	178					43	82.6	117	16	1.6	4–19	7.7	11.3
		600	190					43	82.6	118	16	6.4	4–19	7.8	12.5
1	25	150	127	193	250	125	160	51	79.4	108	11.5	1.6	4–15	9.8	13.5
		300	203					51	88.9	124	18	1.6	4–19	11	16.8
		600	216					51	88.9	124	18	6.4	4–19	12.5	17.5
1¼	32	150	140	250	250	160	160	64	88.9	117	13	1.6	4–15	13.5	19.5
		300	216					64	98.4	133	19.5	1.6	4–19	16.8	21.2
		600	229					64	98.4	133	21	6.4	4–19	17	23.5
1½	40	150	165	250	291	160	180	73	98.4	127	14.5	1.6	4–15	19.5	28.5
		300	229					73	114.3	156	21	1.6	4–22	21.2	32.6
		600	241					73	114.3	156	22.5	6.4	4–22	23.5	38.5
2	50	150	203	291	312	180	200	92	120.7	152	16	1.6	4–19	28	30.3
		300	267					92	127.0	165	22.5	1.6	8–19	32.6	35
		600	292					92	127.0	165	25.5	6.4	8–19	38.8	42.2

Forged steel flange globe valve



Application Specificastion

1. Design Manufacfure According to API 602
2. Face to Face According to ASME B 16.10
3. End Flange Dimension According to ASME B16.5; JIS B2212–B2214
4. Valve Check and Test According to API 598

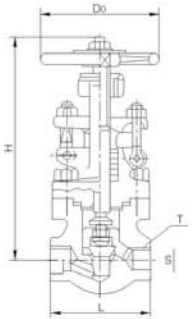
900 Main Connection Dimensions and Weight

DN Spec		L	H Open	D0	G	D2	D1	D	b	f	N-Φ	(kg) Weight	
(in)												B.B	W.B
1/2	15	216	207	100	39.67	60.5	82.5	120	22.5	6.35	4–22	7.4	8
3/4	20	229	207	100	44.45	66.5	89	130	25.5	6.35	4–22	12.5	13.2
1	25	254	240	125	50.80	71.5	101.5	150	29.5	6.35	4–26	16	17.4
1 1/4	32	279	258	160	60.33	81	111.1	159	29.5	6.35	4–26	17.2	19
1 1/2	40	305	290	160	68.27	92	124	180	32.0	6.35	4–30	23	24.5
2	50	368	337	180	95.25	124	165.1	216	38.5	7.92	8–26	29.8	31

10K/20K/40K Main Connection Dimensions and Weight

DN Spec		Pressure Grade	L	H Open		D0		D2	D1	D	b	f	N-Φ	(kg) Weight	
(in) English system	Metric system			Reduced bore	Full bore	Reduced bore	Full bore							Reduced bore	Full bore
1/2	15	10K	108	158	163	100	100	51	70	95	12	1	4–15	4.8	7.2
		20K	152					51	70	95	14	1	4–15	5.2	8
		40K	165					55	80	115	20	1	4–19	7.4	9.8
3/4	20	10K	117	163	193	100	125	56	75	100	14	1	4–15	7.2	10.2
		20K	178					56	75	100	16	1	4–15	8	12
		40K	190					60	85	120	20	1	4–19	9.8	13.3
1	25	10K	127	193	250	125	160	67	90	125	14	1	4–19	10.2	14.2
		20K	203					67	90	125	16	1	4–19	12	15.7
		40K	216					70	95	125	22	1	4–19	13.3	18.5
1 1/4	32	10K	140	250	250	160	160	76	100	135	16	2	4–19	14.2	20
		20K	216					76	100	135	18	2	4–19	15.7	23
		40K	229					80	105	135	24	2	4–19	18.5	27.3
1 1/2	40	10K	165	250	291	160	180	81	105	140	16	2	4–19	20	29.5
		20K	229					81	105	140	18	2	4–19	23	35.4
		40K	241					90	120	160	24	2	4–23	27.3	38.6
2	50	10K	203	291	312	180	200	96	120	155	16	2	4–19	29.5	30.3
		20K	267					96	120	155	18	2	8–19	35.4	36.6
		40K	292					105	130	165	26	2	8–19	38.6	40

Forged steel globe valve



Application Specificastion

1、Design Manufacture According to API 602
2、Face to Face:
(1) Socket bore dimensions by ASME B16.11; JIS B2306
(2) End of thread dimensions by ASME B1.20; ISO 7/1, JIS B0203
3、Valve Check and Test According to API598
4、Structure：B.B；OS&Y
5、Material: According to ANSI/ASTM
6、Main meterial：A105；F5；F11；F22；304；304L；316；316L；LF2 etc.

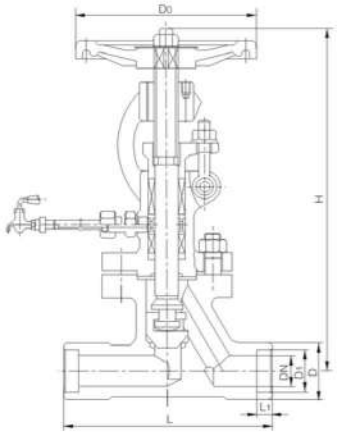
Main Connection Dimensions and Weight

(DN) Spec				S				L	T(in)				D0	H OPen	(kg) Weight	
(in) English system		Metric system		ANSI		JIS			ANSI NPT 60°		ISO; BS; JIS 55°					
1/4	–	8	–	14.2	–	14.3	–	79	1/4	–	1/4	–	100	157	1.9	2.2
3/8	1/4	10	8	17.6	14.2	17.9	14.3	79	3/8	1/4	3/8	1/4	100	157	1.9	2.2
1/2	3/8	15	10	21.8	17.6	22.2	17.9	79	1/2	3/8	1/2	3/8	100	157	1.9	2.0
3/4	1/2	20	15	27.1	21.8	27.7	22.2	92	3/4	1/2	3/4	1/2	100	162	2.1	1.9
1	3/4	25	20	33.8	27.1	34.5	27.7	111	1	3/4	1	3/4	125	195	3.3	2.4
1 1/4	1	32	25	42.6	33.8	43.2	34.5	120	1 1/4	1	1 1/4	1	160	267	7.5	3.5
1 1/2	1 1/4	40	32	48.7	42.6	49.1	43.2	152	1 1/2	1 1/4	1 1/2	1 1/4	160	267	7.5	8.0
2	1 1/2	50	40	61.1	48.7	61.1	49.1	172	2	1 1/2	2	1 1/2	180	301	11.4	8.6
–	2	–	50	–	61.1	–	61.1	200	–	2	–	2	200	312	–	14.4

1500磅级主要连接尺寸及重量 Main Connection Dimensions and Weight

(DN) Spec				S				L	T(in)				D0	H OPen	(kg) Weight	
(in) English system		Metric system		ANSI		JIS			ANSI NPT 60°		ISO; BS; JIS 55°					
1/4	–	8	–	14.2	–	14.3	–	111	1/4	–	1/4	–	100	207	2.4	–
3/8	1/4	10	8	17.6	14.2	17.9	14.3	111	3/8	1/4	3/8	1/4	100	207	2.2	2.4
1/2	3/8	15	10	21.8	17.6	22.2	17.9	111	1/2	3/8	1/2	3/8	100	207	2.0	2.2
3/4	1/2	20	15	27.1	21.8	27.7	22.2	111	3/4	1/2	3/4	1/2	100	207	1.8	2.0
1	3/4	25	20	33.8	27.1	34.5	27.7	130	1	3/4	1	3/4	125	240	3.6	3.8
1 1/4	1	32	25	42.6	33.8	43.2	34.5	152	1 1/4	1	1 1/4	1	160	258	3.9	4.2
1 1/2	1 1/4	40	32	48.7	42.6	49.1	43.2	172	1 1/2	1 1/4	1 1/2	1 1/4	160	290	7.5	8.0
2	1 1/2	50	40	61.1	48.7	61.1	49.1	220	2	1 1/2	2	1 1/2	180	337	12.8	13.2
–	2	–	50	–	61.1	–	61.1	235	–	2	–	2	200	354	–	16.8

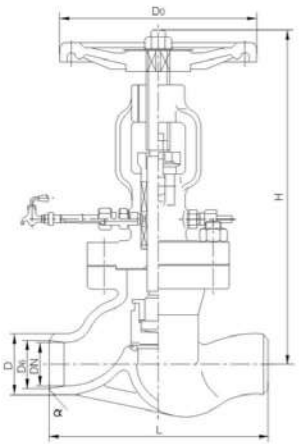
Water Sealing/vacuum globe valve



Main Connection Dimensions and Weight

DS/J61H–25 DS/J61Y–25 I

Nominal Diameter	(mm) External form and connection dimensions								(kg) Weight
	L	D	D1	D6	α	L1	H	D0	
10	130	36	15	10	–	10	255	120	4.8
15	130	36	19	15	–	11	257	120	5.0
20	150	44	26	20	–	11	267	140	7.3
25	160	44	33	24	–	12	269	140	8.2
32	180	48	34	32	37° 30′	–	255	180	12
40	200	55	40	38	37° 30′	–	295	200	15
50	230	64	50	46	37° 30′	–	354	250	25
65	290	82	65	62	37° 30′	–	400	250	28.5
80	310	94	78	74	37° 30′	–	425	300	49
100	350	117	97	95	37° 30′	–	567	350	64
125	400	144	122	120	37° 30′	–	475	400	83
150	480	170	148	145	37° 30′	–	611	400	94
200	600	220	197	193	37° 30′	–	721	400	152



Main Connection Dimensions and Weight

DS/J61H–40 DS/J61Y–40 I

Nominal Diameter	(mm) External form and connection dimensions							(kg) Weight
	L	D	D1	D6	α	H	D0	
10	130	38	15	10	37° 30′	255	120	5.3
15	130	38	19	15	37° 30′	257	120	5.7
20	150	47	26	20	37° 30′	267	140	7.6
25	160	47	33	24	37° 30′	270	160	8.8
32	180	53	34	32	37° 30′	257	160	13.2
40	200	57	40	38	37° 30′	297	200	16.5
50	230	68	50	46	37° 30′	354	250	26
65	290	85	65	62	37° 30′	405	280	41.3
80	310	98	78	74	37° 30′	427	320	51.5
100	350	122	97	95	37° 30′	470	350	69
125	400	148	122	120	37° 30′	475	400	89
150	480	176	148	145	37° 30′	614	400	98

Main Connection Dimensions and Weight

DS/J61H–64 DS/J61Y–64 I

Nominal Diameter	(mm) External form and connection dimensions							(kg) Weight
	L	D	D1	D6	α	H	D0	
10	130	38	15	10	37° 30′	255	140	6
15	210	38	19	15	37° 30′	257	140	6.4
20	230	47	26	19	37° 30′	269	160	8.4
25	230	47	33	24	37° 30′	273	180	9.6
32	260	53	34	32	37° 30′	259	200	23
40	260	57	40	37	37° 30′	297	250	34
50	300	70	50	46	37° 30′	356	280	46
65	340	86	65	62	37° 30′	405	320	67
80	380	100	78	74	37° 30′	429	360	85
100	430	124	97	95	37° 30′	477	400	97

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