The features of globe valve

Bolted Bonnet; Outside Screw and Yoke; Rising stems; Metallic seating surfaces.

Body and Bonnet Connection

The body and bonnet of Class150~Class900 globe valves are usually with studs And nuts. And the body and bonnet of Class 1500~Class2500 globe valve are usually of pressure seal design.

Gasket of Cover Flange

Stainless steel+flexible graphite wounded gasket is used for Class 150 and Class300 globe valve. Stainless steel+flexible graphite wounded gasket is used for Class600,and ring joint gasket is also optional for Class600.Ring joint gasket is used for Class900 globe valve. Pressure seal design is used for Class 1500~Class2500 globe valve.

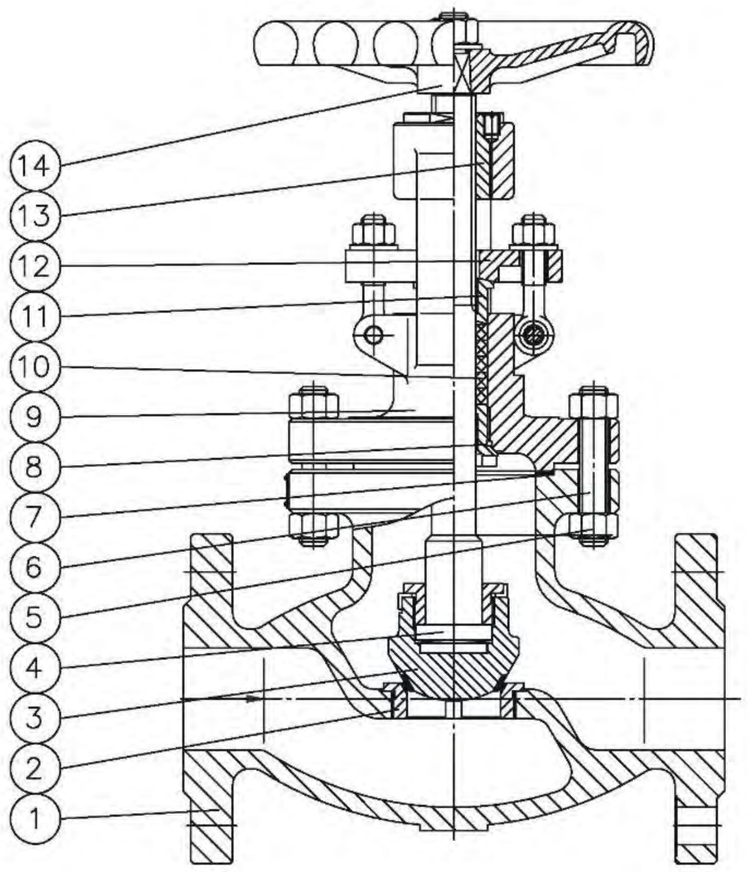
Actuation

Hand wheel, impact hand wheel&gear box is usually used for globe valve actuation. Chain wheel and electric actuator can be also used for globe valve actuation if being requested by the customers.

Seat

For carbon steel globe valve, the seat is usually forged steel. The sealing surface of the seat is spray welded with hard alloy specified by the customer .the seat have two type: welded on seat and integral seal, For stainless globe valve, integral seat is usually adopted, or to weld hard alloy directly integrally. If the customer have any other request about the seat, please kindly advise before placing the order.

API Globe Valve



STANDARD MATERIAL TO API600

Trim Code	Seat Ring Surface Part No.2	Wedge Surface Part NO.3	Stem Part NO.4	Backseat Part No.8
1	F6	F6	F6	F6
2	F304	F304	F304	F304
5	Stellite	Stellite	F6	F6
8	Stellite	F6	F6	F6
9	Monel	Monel	Monel	Monel
10	F316	F316	F316	F316
13	Alloy 20	Alloy 20	Alloy 20	Alloy 20

Standards

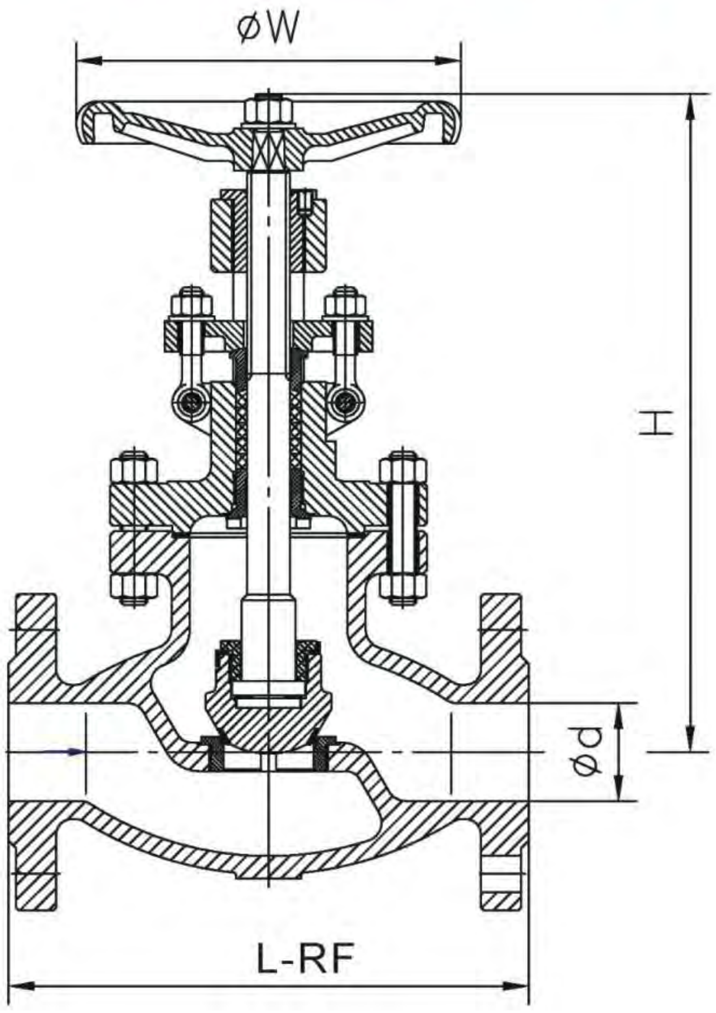
Design and Manufacture	BS 1873 and ASME B16.34
Inspection and Test	API598
End Flange dimension	ASME B16.5
BW end dimension	ASME B16.25
Socket-weld dimension	ASME B16.11
Face to Face	ASME B16.10
Pressure -temperature ratings	ASME B16.34

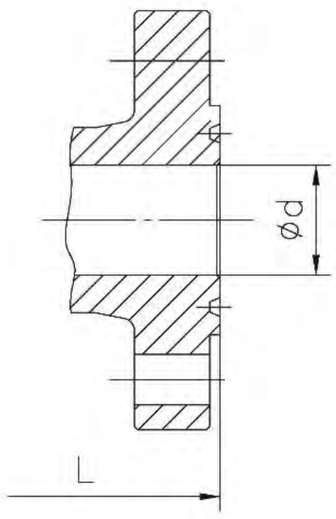
Parts and material list

Part Name		Carbon Steel to ASTM		Alloy Steel to ASTM				Stainless Steel to ASTM			
1	Body	A216WCB	A352LCB	A217WC1	A217WC6	A217WC9	A217C5	A351CF8	A351CF8M	A351CF3	A351CF3M
9	Bonnet	A216WCB	A352LCB	A217WC1	A217WC6	A217WC9	A217C5	A351CF8	A351CF8M	A351CF3	A351CF3M
6	Bolt	A193 B7	A320 L7	A193 B7	A193 B16	A193 B16	A193 B16	A193 B8	A193 B8	A193 B8	A193 B8
5	Nut	A194 2H	A194 2H	A194 2H	A194 4	A194 4	A194 4	A194 8	A194 8	A194 8	A194 8
11	Gland	A182 F6a	A182 F6a	A182 F6a	A182 F6a	A182 F6a	A182 F6a	304	316	304L	316L
12	Gland Flange	A216WCB	A352 LCB	A217WC1	A217WC6	A217WC9	A217C5	A351CF8	A351CF8M	A351CF3	A351CF3M
3	Disc	A216WCB	A352 LCB	A217WC1	A217WC6	A217WC9	A217C5	A351CF8	A351CF8M	A351CF3	A351CF3M
7	Gasket	SS Spiral Wound W/graphite,or SS Spiral Wound W/PTFE, or Reinforced PTFE									
10	Packing	Braided graphite or Die-formed graphite ring or PTFE									
13	Stem Nut	Copper alloy or A439 D2									
14	Hand Wheel	Ductile iron or Carbon steel									

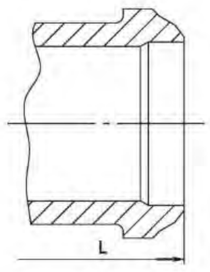
Noted: The chart above only lists out some common composition of steel globe valve parts. We may provide other different parts material composition according to the customer’ s request or the actual valve working condition

Class 150& JIS 10K Globe Valve

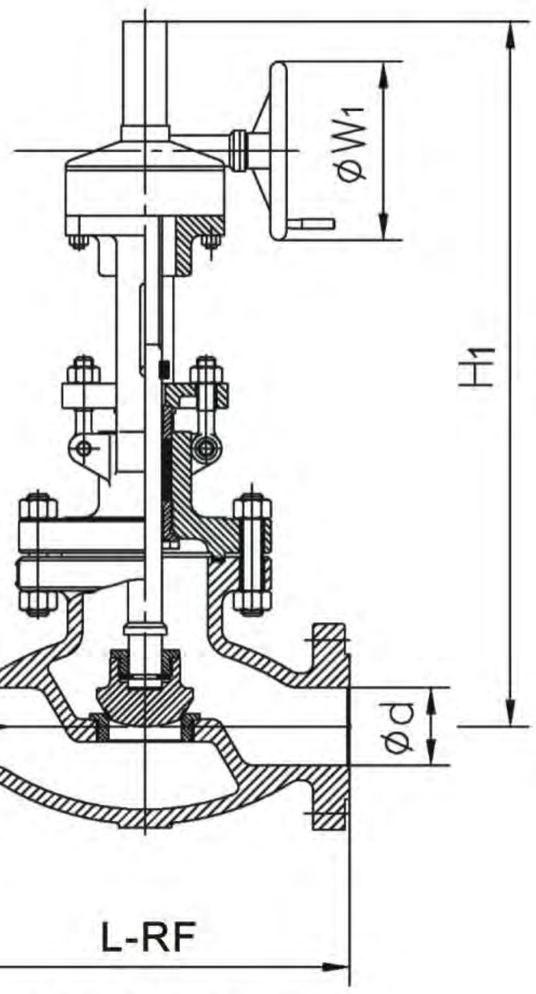




RTJ End



BW End

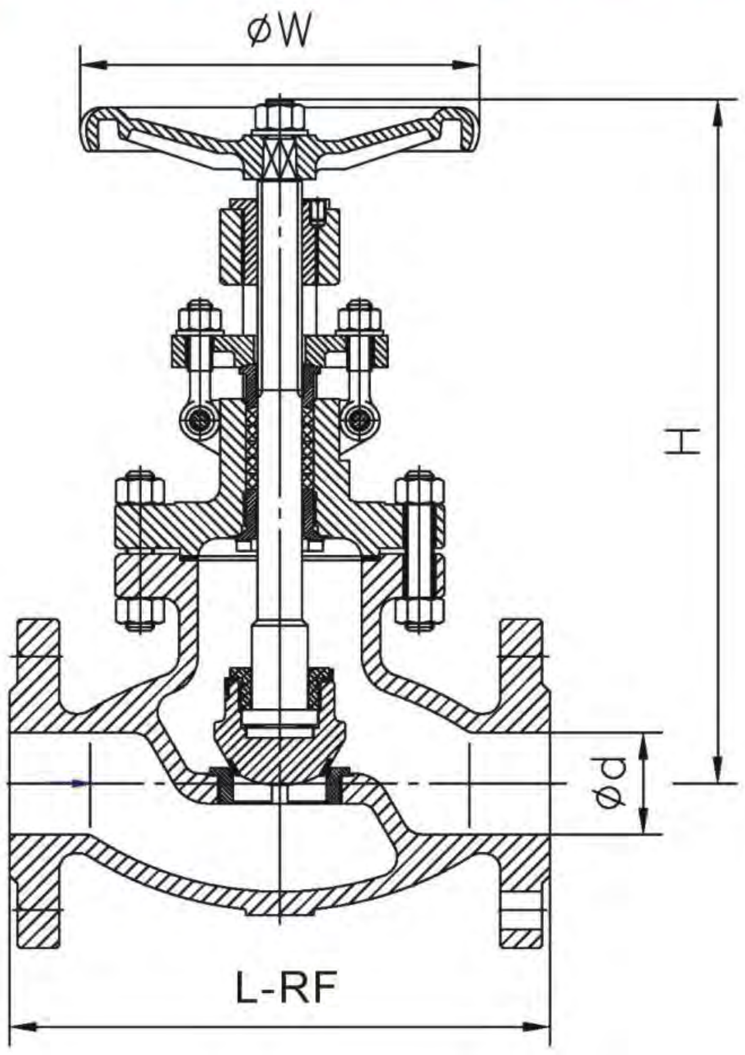


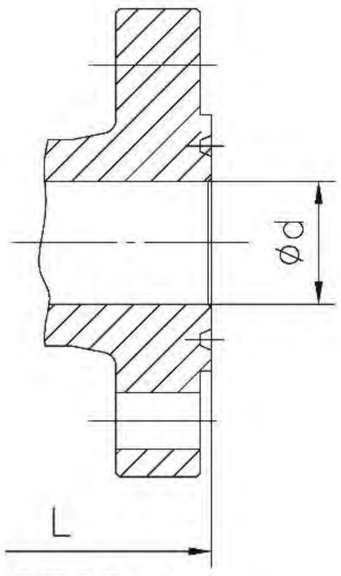
GEAR Operation

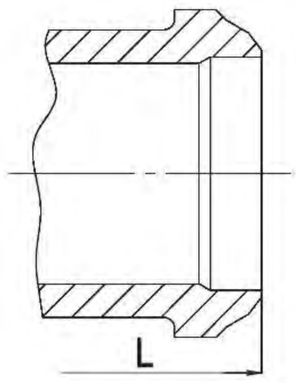
Class	Size		Dimensions(mm)								Weight (Kg)	
	NPS	DN	L			d	H	H1	W	W1	H.W	G.O
			R F	RTJ	BW							
150	1/2	15	108	119	108	13	185	-	100	-	4	-
	3/4	20	117	130	117	19	190	-	100	-	4.5	-
	1	25	127	140	127	25	211	-	100	-	5.5	-
	1 1/4	32	140	152	140	32	220	-	135	-	8.5	-
	1 1/2	40	165	178	165	38	240	-	135	-	12	-
	2	50	203	216	203	51	328	-	200	-	18	-
	2 1/2	65	216	229	216	64	360	-	250	-	26	-
	3	80	241	254	241	76	373	-	280	-	43	-
	4	100	292	305	292	102	400	-	300	-	54	-
	5	125	356	369	356	127	435	-	350	-	71	-
	6	150	406	419	406	152	528	556	350	310	95	114
	8	200	495	508	495	203	680	658	400	310	160	158
	10	250	622	635	622	254	775	805	450	460	299	259
	12	300	698	711	698	305	880	955	500	460	373	378
	14″	350	787	800	787	337	-	1100	-	460	-	640
	16″	400	914	927	914	387	-	1175	-	460	-	920
	20″	500	978	991	978	488	-	1450	-	600	-	1650
	24″	600	1295	1308	1295	590	-	1690	-	600	-	2200

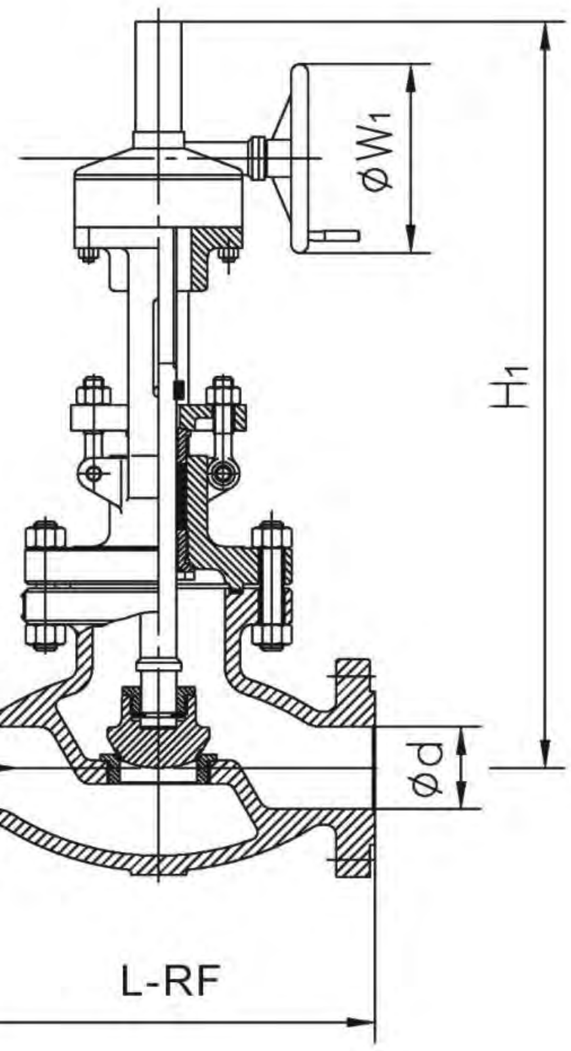
Noted: We may provide other different actuators according to the customer's request, such as pneumatic, electric, hydraulic actuators, the details of them according to the actual valve working condition.

Class 300 & JIS 20K Cast Steel Globe Valve





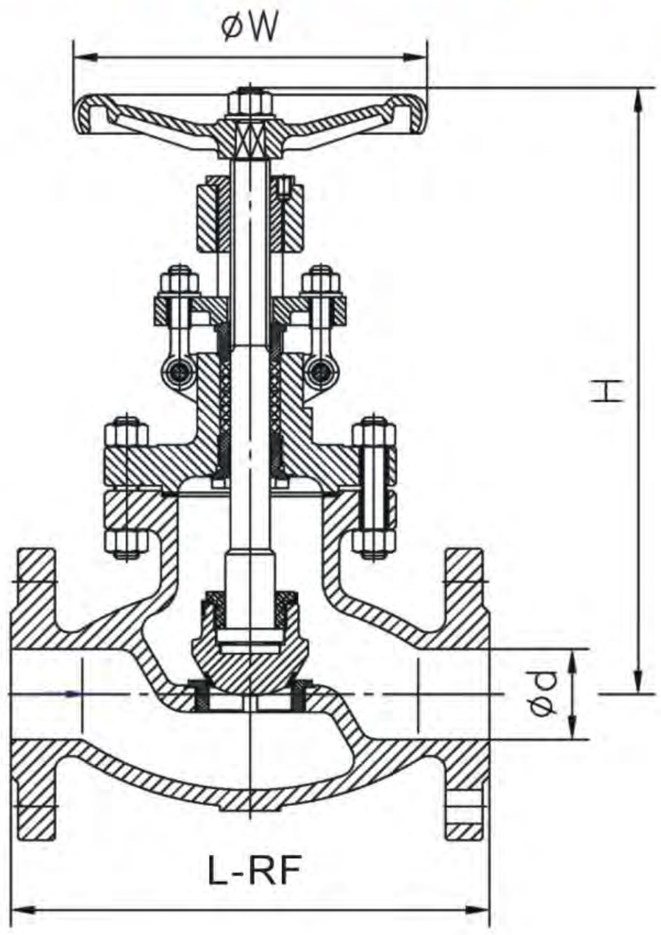


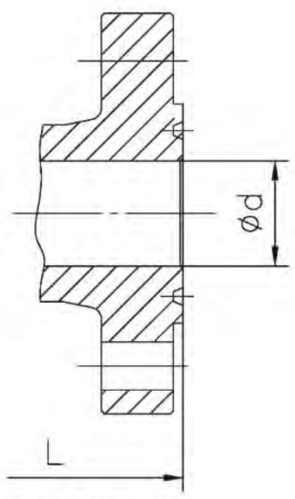


Class	Size		Dimensions(mm)								Weight (Kg)	
	NPS	DN	L			d	H	H1	W	W1	H.W	G.O
			R F	RTJ	BW							
300	1/2	15	152	164	152	13	184	-	120	-	5	-
	3/4	20	178	191	178	19	226	-	160	-	6.5	-
	1	25	203	216	203	25	233	-	160	-	9	-
	1 1/4	32	216	229	216	32	253	-	160	-	12	-
	1 1/2	40	229	241	229	38	273	-	160	-	16	-
	2	50	267	283	267	51	346	-	200	-	29	-
	2 1/2	65	292	308	292	64	390	-	250	-	44	-
	3	80	318	333	318	76	403	-	280	-	59	-
	4	100	356	371	356	102	474	-	350	-	87	-
	5	125	400	416	400	127	540	-	350	-	181	-
	6	150	444	460	444	152	635	690	450	310	162	177
	8	200	559	575	559	203	870	950	550	460	281	389
	10	250	622	638	622	254	950	990	600	460	355	409
	12	300	711	727	711	305	1030	1155	700	460	575	635
	14	350	838	-	-	336	-	1155	-	600	-	880
	16	400	864	-	-	387	-	1325	-	600	-	1300
	18	450	977	-	-	431	-	1473	-	720	-	1600
	20	500	1016	-	-	482	-	1574	-	720	-	2100

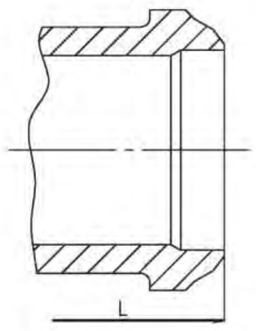
Noted: We may provide other different actuators according to the customer's request, such as pneumatic, electric, hydraulic actuators, the details of them according to the actual valve working condition.

Class 600 & Class 1500 Globe Valve

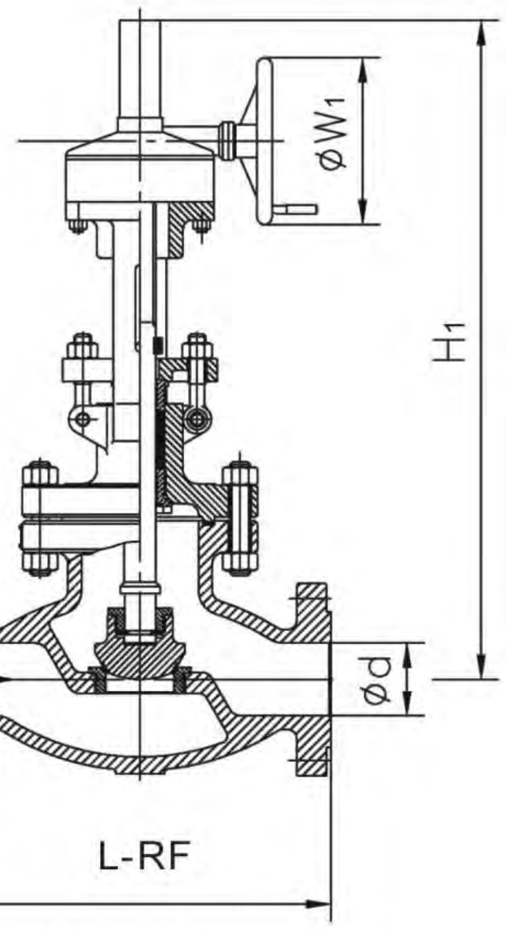




RTJ End



BW End



GEAR Operation

Class	Size		Dimensions(mm)								Weight (Kg)	
	NPS	DN	L			d	H	H 1	W	W 1	H.W	G.O
			R F	RTJ	BW							
600	2	50	292	295	292	51	360	-	250	-	35	-
	2½	65	330	333	330	64	410	-	280	-	42	-
	3	80	356	359	356	76	465	-	280	-	66	-
	4	100	432	435	432	102	545	575	400	310	117	148
	5	125	508	511	508	127	625	660	500	310	243	208
	6	150	559	562	559	152	785	975	550	460	263	334
	8	200	660	664	660	200	930	1120	650	460	469	544
	10	250	787	791	787	248	-	1219	-	600	-	875
	12	300	838	841	838	298	-	1570	-	600	-	1280
900	2	50	368	371	368	48	480	-	350	-	55	-
	2½	65	419	422	419	57	520	-	350	-	68	-
	3	80	381	384	381	73	564	630	400	310	113	128
	4	100	457	460	457	98	685	720	450	310	179	210
	5	125	559	562	559	127	780	840	550	460	270	325
	6	150	610	613	610	146	950	1015	650	460	429	480
	8	200	737	740	737	190	1050	-	700	-	815	-
1500	2	50	368	371	368	48	505	-	350	-	137	-
	2½	65	419	422	419	57	550	-	400	-	141	-
	3	80	470	473	470	70	630	765	450	310	261	320
	4	100	546	549	546	92	808	890	460	310	336	397
	6	150	705	711	705	137	930	1020	610	530	966	1035
	8	200	832	841	832	178	1140	1230	610	530	1210	1280

Noted: We may provide other different actuators according to the customer's request, such as pneumatic, electric, hydraulic actuators, the details of them according to the actual valve working condition.