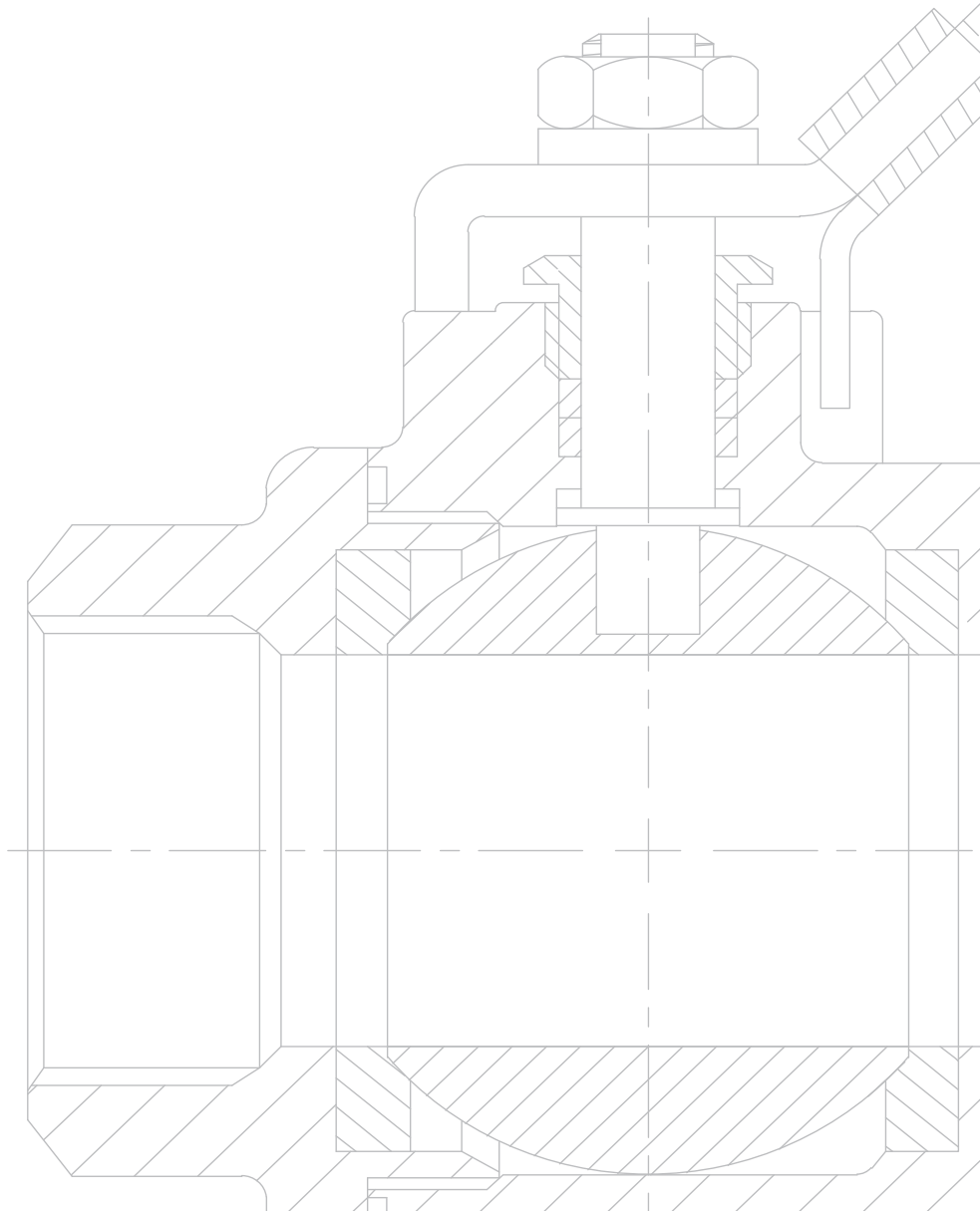




# MORRIS VALVES

*A CLEANER WORLD, ONE PROJECT AT A TIME*



**API600 & API 602, GATE VALVE**

[www.morrisvalve.com](http://www.morrisvalve.com)



In 1984, our journey into the business of repairing valves and industrial instrumentation began. That journey has led us to represent and service well known American brands and companies. In early 2000, our experience and growing passion for the valve industry encouraged our decision to launch our own brand, Morris Valves. Starting with the highly requested Ball Valves, the brand has been based on the principal of quality and performance to match our customers' needs. Our high standards of production later lead us to incorporate other models such as Gate Valve and Check Valves to our production. These additions were carefully selected to match our Standard of Quality. Our success has been driven by our belief of "Tradition with Quality" in everything we do. Our products are developed with that belief which drives our growth and guides the service we provide to our customers.

Our vision is to be amongst the leading corporations in the supply of goods and services related to valves, their components and industrial equipment in general. We want to conquer new markets in conformity with international standards and remain committed to customer satisfaction, the welfare of our company and the sustainability our planet.

## Mision

Our mission is to use our highly trained, highly focused, and extremely motivated staff to work with manufacturers who value quality and have the vision for new development and product applications to ensure the timely provision of goods and services related to valves, their components and industrial equipment in general. We maintain a rigorous standard of customer satisfaction, which will provide for the welfare of the company, the welfare of the countries we serve, and most importantly the sustainability of the planet.

## Contacts

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## Vision

*"A cleaner world, one project at a time"*

# GVT TYPE

API600 & API 602, GATE VALVE.  
FLANGED /THRD,BUTT/SOCKET  
WELDING END  
Nominal Pressure  
API600:  
FLANGED: CLASS (150 - 2500) #  
API602:  
FLANGED/THRD/SW/BW:  
CLASS(150-2500)#

## SPECIFICATIONS:

- \* Design Standard:
  - API: API600
  - API 602
  - ASME: ASME B16.34
- \* Face to face:
  - ASME B16.10
- \* End Connections:
  - FLANGED: ASME B16.5 / ASME B16.47-A/MSS-SP-44
  - BUTT WELDING: ASME B16.25
  - THREADED: B1.20.1
  - SOCKET WELDING: B16.11
- \* Test : API 598 / ASME B16.34
- \* Body Material:  
ASTM A216 WCB,CF8,CF8M,A352 LCB
- \* Actuation:  
Handwheel, Worm Gear, Electrical, Pneumatic,Hydraulic

## FEATURES:

- \* Full & Standard bore body design.
- \* Welded Sealed Bonnet & Threaded Connected Internal Pressure Seal Bonnet.
- \* Renewable seat rings, Different choices for Materials.
- \* Solid, Flexible or Parallel slide wedge/disc, fully guided
- \* Highly used in pipelines systems where the main fluids are: Gas, Oil and Petroleum derivate.
- \* Forged T- Head Stem allows the wedge to self-align.
- \* Rising stem and non-rising hand wheel.

## HOW TO ORDER

GVT600/602 -  BODY MATL -  TRIM MATL -  SIZE/RATINGS -  END CONNECTION



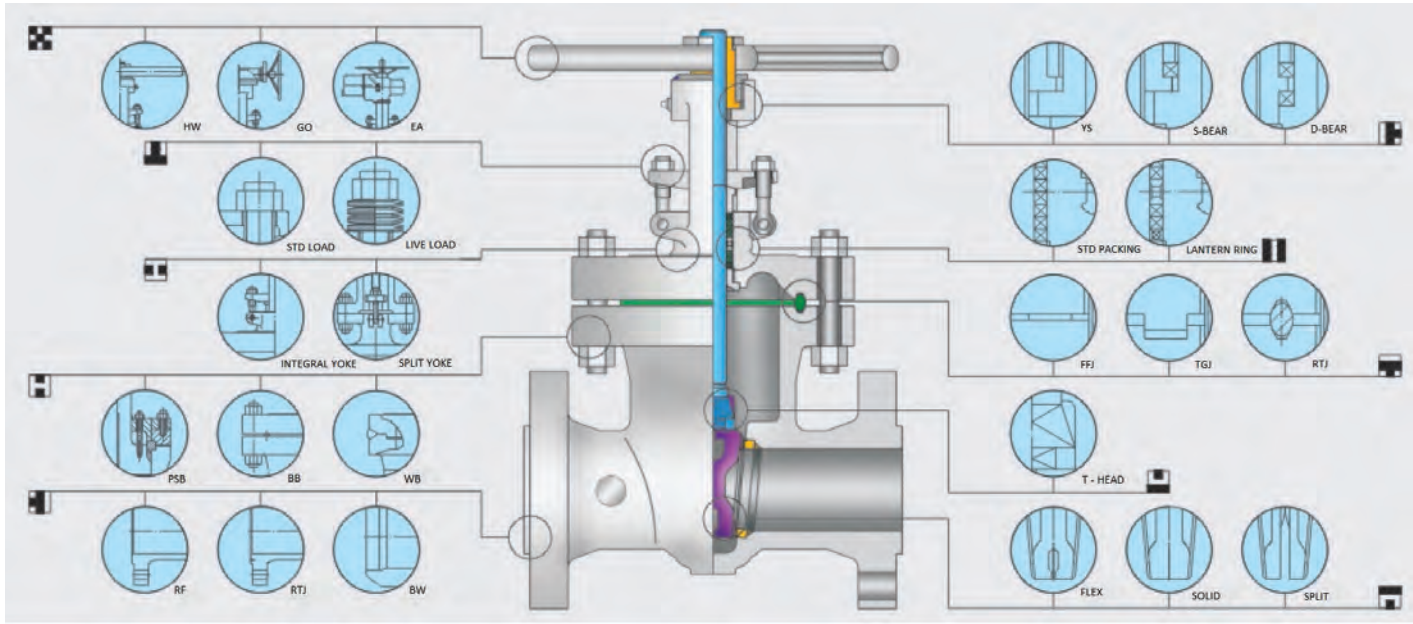
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CE APPROVED

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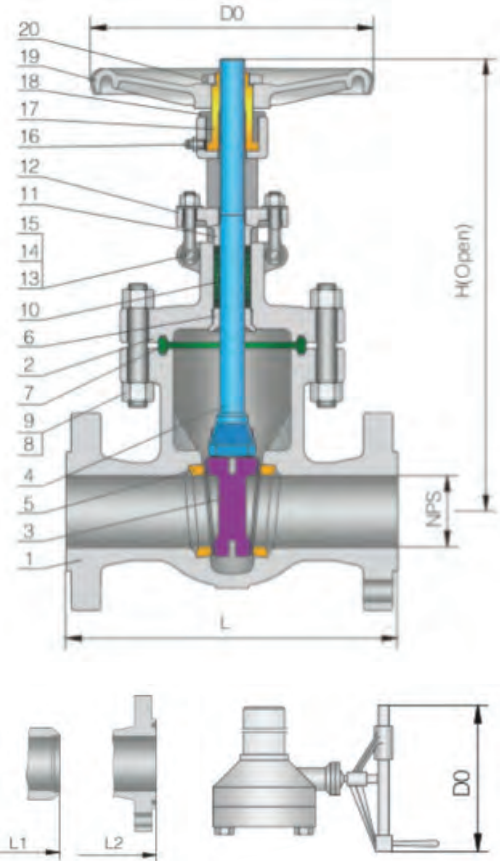


**MATERIALS**

- BODY & BONNET
- STEM
- DISC/WEDGE
- SEAT
- PACKING
- BONNET GASKET
- ACTUATOR

**SIZE:**

- (2 - 36)" / FULL PORT...Class150
- (2 - 36)" / FULL PORT...Class300
- (2 - 36)" / FULL PORT...Class600
- (2 - 24)" / FULL PORT...Class900
- (2 - 24)" / FULL PORT...Class1500
- (2 - 12)" / FULL PORT...Class2500

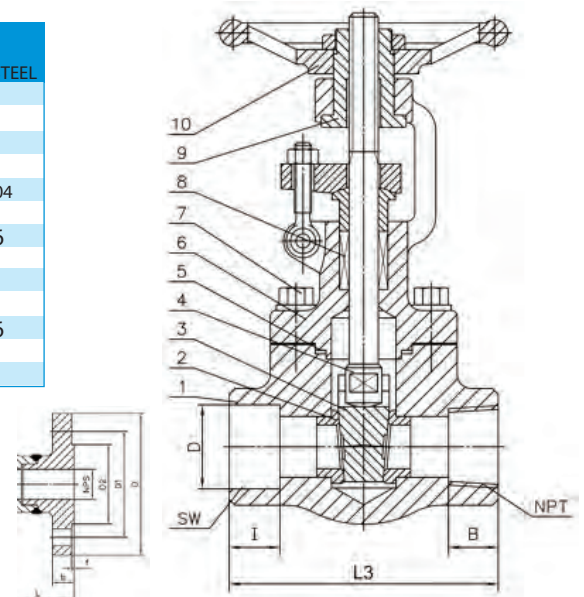


API 600, MAIN PARTS AND MATERIALS				
PART	CARBON STEEL	1 ¼ Cr - ½ Mo	Low Temp. Steel	
1 BODY	A216 - WCB	A217 - WC6	A352 - LCB	
2 BONNET	A216 - WCB	A217 - WC6	A352 - LCB	
3 WEDGE	A216 - WCB	A217 - WC6	A352 - LCB	
4 STEM	A182 - F6a	Cr - Mo - V	A182 F6a	
5 SEAT RING	A105	A182 - F11	A350 - LF2	
6 STEM BACK SEAT	A276 - 420	A276 - 304	A276 - 420	
7 BONNET GASKET	FLEXIBLE - GRAPHITE + 304			
8 BONNET BOLT	A193 - B7	A193 - B16	A320 - L7	
91 BONNET BOLT/NUT	A194 - 2H	A194 - 7	A194 - 4	
10 PACKING	GRAPHITE			
11 PACKING GLAND	A276 - 420	A276 - 304	A276 - 420	
12 GLAND FLANGE	A216 - WCB	A217 - WC6	A352 - LCB	
13 EYEBOLT PIN	CARBON STEEL	A276 - 420	CARBON STEEL	
14 EYEBOLT	CARBON STEEL	A193 - B7	CARBON STEEL	
15 EYEBOLT NUT	CARBON STEEL	A194 - 2H	CARBON STEEL	
16 GREASE FITTING	BRASS + STEEL			
17 YOKESLEEVE	ALUMINUM - BRONZE1			
18 YOKESLEEVE JAM NUT	CARBON STEEL			
19 HANDWHEEL	MALLEABLE IRON			
20 HANDWHEEL NUT	CARBON STEEL			

**Notes.**  
 1) Ductile Ni-Resist optional  
 2) Wedge and Seat Ring may either be: solid facing Material or a Base material equal to or better than Body & Bonnet material with facing as shown.

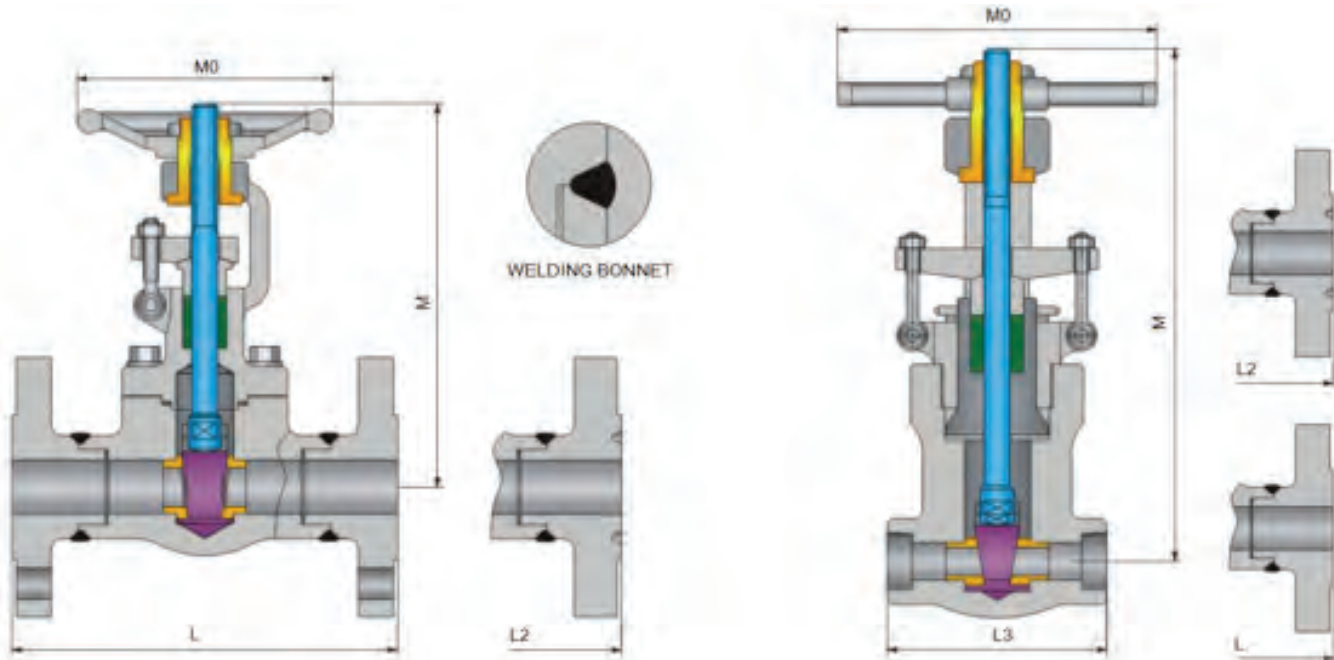
API 600, MAIN EXTERNAL DIMENSIONS (MM)																			
NPS (INCH)	2	2-1/2	3	4	6	8	10	12	14	16	18	20	24	26	28	30	32	36	
(Class 150)																			
L (RF)	178	191	203	229	267	292	330	356	381	406	432	457	508	559	610	610	711	711	
L1 (BW)	216	241	282	305	403	419	457	502	572	610	660	711	813	864	914	914	965	1016	
H (OPEN)	386	434	480	584	765	956	1149	1350	1508	1703	1892	2119	2500	2806	2960	3150	3280	3720	
DO	200	200	240	300	350	400	400	500	600	600	600	700	800	800	800	800	950	1000	
WT (Kg)	15	18	26	41	69	108	156	248	330	424	587	752	1144	1570	1900	2540	3310	3380	
(Class 300)																			
L/ L1	216	241	282	305	403	419	457	502	762	838	914	991	1143	1245	1346	1397	1524	1727	
(RF)(BW)	232	257	298	321	419	435	473	518	778	854	930	1010	1165	1270	1372	1422	1553	1756	
L2 (RTJ)	410	453	509	612	805	1000	1210	1415	1580	1725	1960	2195	2590	2975	3100	3200	3300	3860	
H	240	240	280	300	400	400	500	500	600	600	700	800	800	800	950	950	950	10000	
Wt (Kg)	RF/RTJ	23	35	50	71	144	209	322	482	683	950	1145	1635	2660	3090	3310	3595	3720	3985
	BW	17	26	39	53	113	164	256	390	565	805	965	1410	2305	2540	2725	3055	3360	3630
(Class 600)																			
L/ L1	292	330	356	432	559	660	787	838	889	991	1092	1194	1397	1548	1549	1651	1778	2083	
(RF)(BW)	295	333	359	435	562	663	790	841	892	994	1095	1200	1407	1461	1562	1664	1794	2099	
L2 (RTJ)	418	476	518	646	840	1025	1230	1450	1575	1795	1930	2210	2580	2665	2780	2895	3150	3560	
H	250	300	300	350	450	600	600	600	700	700	700	800	950	950	950	950	950	1000	
Wt (Kg)	RF/RTJ	36	52	67	112	170	393	610	890	1245	1530	1965	2450	2995	3475	3725	4045	4185	4480
	BW	29	42	53	83	125	310	472	730	1055	1240	2625	2030	2590	2855	3065	3440	3780	4085
(Class 900)																			
L/ L1	368	419	381	457	610	737	838	965	1029	1130	1219	1321	1549	-	-	-	-	-	
(RF)(BW)	371	422	384	460	613	740	841	968	1039	1140	1232	1334	1568	-	-	-	-	-	
L2 (RTJ)	498	547	573	678	900	1103	1345	1525	1900	2055	2215	2565	2640	-	-	-	-	-	
H	250	300	300	350	500	600	600	700	800	800	800	800	800	-	-	-	-	-	
Wt (Kg)	RF/RTJ	74	131	101	172	335	640	1100	1600	2250	2850	3060	3935	4900	-	-	-	-	-
	BW	54	105	78	135	260	515	920	1380	2010	2565	2485	3250	4065	-	-	-	-	-
(Class 1500)																			
L/ L1	368	419	470	546	705	832	991	1130	1257	1384	1537	1664	1943	-	-	-	-	-	
(RF)(BW)	371	422	473	549	711	842	1001	1146	1276	1406	1559	1686	1971	-	-	-	-	-	
L2 (RTJ)	615	658	760	868	1005	1145	1370	1550	1900	2050	2380	2580	2915	-	-	-	-	-	
H	250	300	450	500	600	460	460	600	600	600	600	600	600	-	-	-	-	-	
Wt (Kg)	RF/RTJ	116	166	209	296	510	920	1910	3145	4100	6200	8965	13100	15860	-	-	-	-	-
	BW	105	150	188	265	412	760	1640	2755	3200	5300	8070	11790	14275	-	-	-	-	-
(Class 2500)																			
L/ L1	451	508	578	673	914	1022	1270	1422	-	-	-	-	-	-	-	-	-	-	
(RF)(BW)	454	514	584	683	927	1038	1292	1444	-	-	-	-	-	-	-	-	-	-	
L2 (RTJ)	631	736	890	1055	1450	1610	2075	2280	-	-	-	-	-	-	-	-	-	-	
H	300	450	500	500	600	600	600	600	-	-	-	-	-	-	-	-	-	-	
Wt (Kg)	RF/RTJ	155	210	310	580	1600	2450	4570	7150	-	-	-	-	-	-	-	-	-	-
	BW	124	160	245	460	1310	2010	3800	6000	-	-	-	-	-	-	-	-	-	-

API 602, MAIN PARTS AND MATERIALS (ASTM/ANSI)				
PART	CARBON STEEL	LOW TEMP. STEEL	STAINLESS STEEL	CHROME-MOLIBDENUM STEEL
1 BODY	A105	10 Cr	10 Cr	F11
2 SEAT	410	410	410	410
3 WEDGE DISC	F6a	F6a	F6a	F6
4 STEM	410	410	410	410
5 BONNET GASKET	GRAPHITE + 304	GRAPHITE + 304	GRAPHITE + 304	GRAPHITE + 304
6 BONNET	A105	A350 - LF2	A350 - LF2	F11
7 BONNET BOLT	A193 - B16	A193-L7	A193-L7	A193 - B16
8 PACKING	GRAPHITE			
9 PACKING BUSH	410	410	304 316	410
10 PACKING GLAND	A105	A350 - LF2	304	F11
11 EYEBOLT	A193 - B7	A193-L7	A193-B8(M)	A193 - B16
12 STEM NUT	410	410	410	410
13 HANDWHEEL	A197			



API 602, CONVENTIONAL TYPE, MAIN EXTERNAL DIMENSIONS

SIZE	L(RF)			L3(NPT/SW)		M	M0	M	M0	WT(KG)						
	Class150	Class300	Class600	Class800	Class900 Class1500	Class150 Class300 Class600	Class150 Class300 Class600	Class800	Class900 Class1500	Class800	Class900 Class1500	Class150	Class300	Class600	Class800	Class900 Class1500
3/8"	-	-	-	79	111	-	-	155	175	100	125	-	-	-	2.3	4.3
1/2"	108	140	165	92	111	155	100	155	175	100	125	3.4	3.8	4.2	2.4	4.3
3/4"	117	152	190	111	120	155	100	176	195	125	160	3.6	4.8	5.8	4.3	6
1"	127	165	216	120	120	176	125	200	225	160	160	6.1	7.2	8.8	5.7	7.2
1-1/4"	140	178	229	120	140	200	160	220	260	160	180	7.2	9.6	12.1	7.1	11.4
1-1/2"	165	190	241	140	178	220	160	255	276	180	200	10.4	12.6	15.6	11	16
2"	178	216	292	178	180	255	180	285	320	200	220	15.5	18	19.5	16.8	23



PRESSURE SEALED, FORGED GATE VALVE

API 602, PRESSURE SEALED, MAIN EXTERNAL DIMENSIONS

SIZE	L(RF)	L2(RTJ)	M	M0	L3(NPT/SW) Pressure Sealed Forged Gate VLV		L2(RTJ) Pressure Sealed Forged Gate VLV		Class900 Class1500	Class2500	M	M0	Wt(Kg)						
					Class900 Class1500	Class2500	Class900 Class1500	Class2500					Class900 Class1500	Class2500	Class900 Class1500	Class2500	RF/RTJ	NPT/SW	RF/RTJ
																	Pressure Sealed Forged Gate VLV	Pressure Sealed Forged Gate VLV	Pressure Sealed Forged Gate VLV
1/2"	216	216	175	125	140	186	216	264	216	264	305	200	7.2	4.6	4.9	8.7	10.2		
3/4"	229	229	175	125	140	186	229	273	229	273	305	200	11.5	6.5	6.8	13.8	15.7		
1"	254	254	195	160	140	186	254	308	254	308	305	200	15.6	7.6	7.8	18.7	20.2		
1-1/4"	279	279	225	180	178	232	279	349	279	352	440	280	16.2	10.4	11.2	19.3	22.3		
1-1/2"	305	305	260	200	178	232	305	384	305	387	445	280	22.6	14.8	15	27.1	29.5		
2"	368	371	276	220	216	279	368	451	371	454	505	300	28.2	20.8	21.9	33.8	35.2		



*A Tradition of Quality*

*Our passion is to develop  
solutions for difficult situations in  
Industrial Applications, no matter  
how large or small the project.*

*"A cleaner world, one project at a time"*

