

Fluid Flow & Valve Specialist

Hi-Fluidic[®] KVT Parallel Slide Gate Valves

KMP-100 Series-High Pressure & High Temperature Service

Key Valve Technologies Ltd.



www.keyvalve.com



KVT – as a Flow, Flow & Valve Specialist, Products Information

We, Key Valve Technologies Limited, KVT are a specialized valve manufacturer based on the fluid flow and system engineering. Patented spring pack loaded parallel slide gate valves is one of proud achievement of KVT's valve engineering efforts.

KVT's parallel slide valves are designed and manufactured to the highest technical standard. KVT's technical standards are being achieved by performing a valve engineering which is based on fluid flow dynamics and structural mechanics such as computer aided engineering of FEA and/or CFD code, etc. To realizing the high technical products, we also introduced special manufacturing techniques to the product.

All the KVT valves and fluid flow control components are tested and inspected per the relative worldwide class standard. Also each valve is hydrostatically tested to ensure the seat is leak tight prior to leaving the factory.

KVT's products are

- **High pressure & high temperature service Parallel Slide Gate Valves**, sizes 1/2"(DN15) through 24"(DN600), pressure classes ANSI 600# through 4500#, bonnet formed by pressure seal (standard for ANSI 900# and above) and bolted bonnet (standard for ANSI 600# and below), constructed by carbon steel, alloy steel, stainless steel and super alloy steel.
- **Blowdown Control Valves**, the types of straight, angle, and tandem, sizes 1", 1-1/2", 2"(DN25, DN40, DN50) as standard, and other sizes as optional, pressure class ANSI 150# through 1500#, bonnet formed by bolted bonnet (standard) and pressure sealed bonnet for class ANSI 2500# above, constructed by carbon steel, alloy steel and stainless steel.
- **Micro-flow globe control valves**, the types of straight and angle globe, sizes 1/4"(DN6) through 1"(DN25) as standards, and 1-1/2"(DN40) through 2"(DN50) as optional. Pressure class ANSI 150# through 2500#, special designed fine machining trim with fully tested, constructed by stainless steel (standard), alloy steel, and carbon steel.
- **Fluid flow control devices** such as multi stage high pressure drop restriction orifices, flow conditioners, engineered check valves, ejectors, and silencers.

For any special design requirements and other sizes and pressure ratings, please contact KVT specialist. KVT is the company of an ever growing idea.

Table of Contents

page	contents
2	KVT Products Introduction
3	KVT Products Imaginary Introduction
4	KVT KMP-100 Parallel Slide Gate Valve - Features & Graphical Design Concepts
5	Advantages of Parallel Slide gate Valves
6	Dimensional Table - Cast Steel Valves
7	Dimensional Table - Forges Steel Valves
8	Dimensional Table - 20K(300#) High Temperature(Steam) Service Valves
9	Material Tables & KMP-100 Valve Application
10	Parallel Slide Gate Control Valves - Design Concept & Application
11	Dimensional Table & Control Schematics
12	Parallel Slide Gate Valve - Ordering Information





Fluid Flow & Valve Specialist

Hi-Fluidic[®] KVT Parallel Slide Gate Valves

KVT Products—Imaginary Introduction

Parallel Slide Gate Valves



Blowdown Control Valves

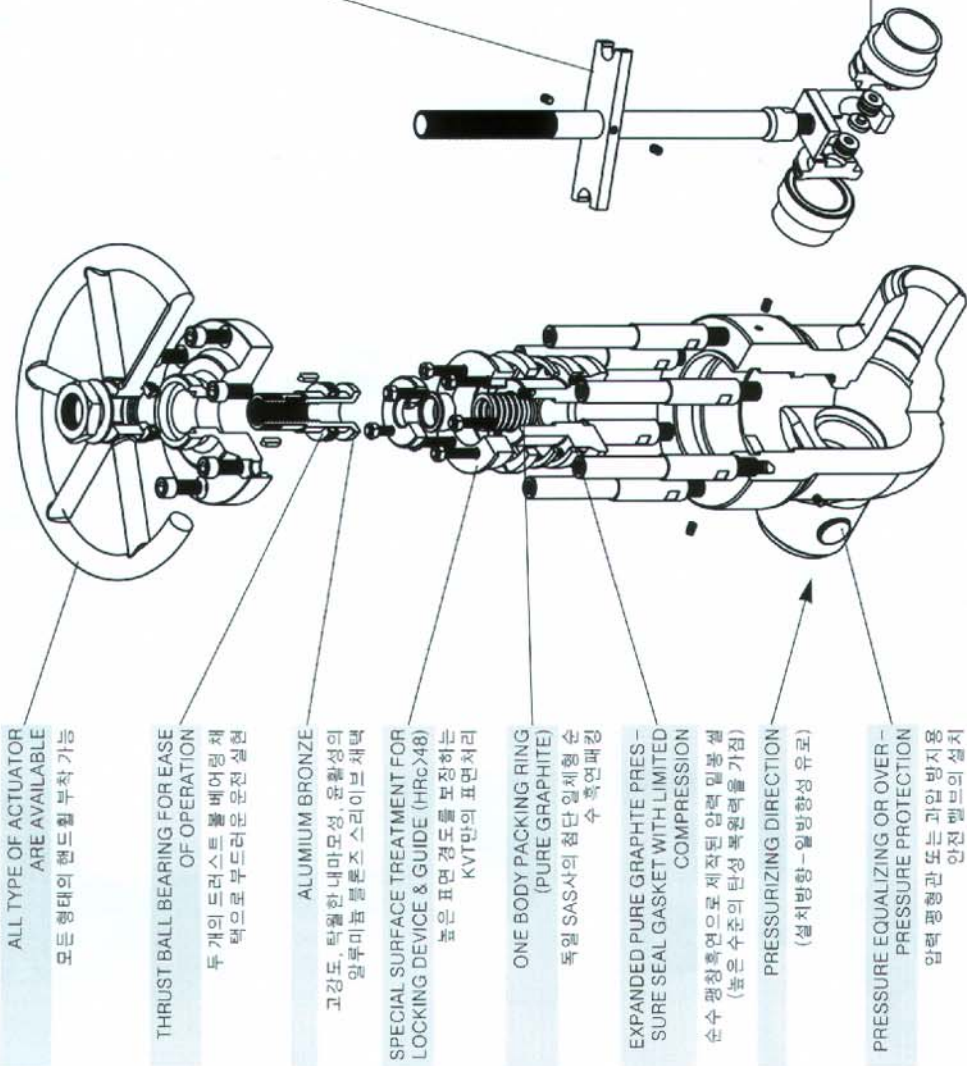


Micro-Flow Globe Control Valves



KVT KMP-100 PARALLEL SLIDE GATE VALVE

(DESIGN INNOVATION & ADVANTAGES)
패러럴 슬라이드 게이트 밸브의 구조 및 특징



POSITIVE TRAVEL STOP OPEN/CLOSE INDICATOR
인디케이터를 겸한 토오크 방지용 스톱 가이드

SLIDING NOT COMPRESSION
미끄러짐에 의한 씰링 구조

WIDE FLAT SEATING SURFACES ARE IMMUNE TO DAMAGE GUAR-
ANTEE LONGER LIFE
광폭의 씰링 접촉면은 씰링 구조의 수명을 대폭 연장시킴

CLEANING ACTION
서로 접촉하며 미끄러짐으로 항상 디스크/시트면은 깨끗함

DIFFERENT GRADE STELLITE HARD FACING DISC/SEAT
디스크와 시트에 각기 다른 경도를 유지할 수 있는 스텔라이트
하드페이싱 기본 채택

POSITIVE SEATING & WIPE OFF IMPURITIES ON THE DISC/SET
능동적인 시트 시팅 구조와 더불어 운전할수록 더욱
씰링 효과가 좋아지는 슬라이딩 씨팅의 디스크 구조

STELLITE HARDFACING (#6, #12)

ALL THE TIMES KEEPS POSITIVE SEALING BY SLIDING
언제나 완벽한 씰링

CHRISTIAN BAUER INCONEL 718 DISC SPRING STACKS(PACK)
POSITIVE SEALING FORCE UP TO 700C
크리스티안 바우어사의 고온용(섭씨 700도) 인코넬 718
디스크 스프링 팩의 채택

HIGHER SPRING FORCE THAT MAKE PERFECT DISC/SEAT SEALING
EFFECTS-PATENTED
DESIGN(KVT DESIGN SPRING FORCE IS AT LEAST 2 TIMES THAN
CONVENTIONAL COIL SPRING FORCE)
고온/고압 운전시 밸브 내부의 구조적인 불연속부에서의 열변형 및 열
침에 의한 극부적인 열응력 발생에
능동적으로 씰링을 유지하는 구조의 디스크 몸체(특허)

ALL TYPE OF ACTUATOR
ARE AVAILABLE
모든 형태의 액츄에이터 부착 가능

THRUST BALL BEARING FOR EASE
OF OPERATION
두 개의 드레스드 볼 베어링 채
택으로 부드러운 운전 실현

ALUMINIUM BRONZE
고강도, 탁월한 내마모성, 윤활성의
알루미늄 브론즈 스텔라이트 채택

SPECIAL SURFACE TREATMENT FOR
LOCKING DEVICE & GUIDE (HRC>48)
높은 표면 경도를 보장하는
KVT만의 표면처리

ONE BODY PACKING RING
(PURE GRAPHITE)
독일 SAS사의 첨단 일체형 순
수 축연패킹

EXPANDED PURE GRAPHITE PRES-
SURE SEAL GASKET WITH LIMITED
COMPRESSION
순수 팽창확연으로 제작된 압력 밀봉 씰
(높은 수준의 탄성 복원력을 가짐)

PRESSURIZING DIRECTION
(설치방향-일방향성 유로)

PRESSURE EQUALIZING OR OVER-
PRESSURE PROTECTION
압력 평형관 또는 과압 방지용
안전 밸브의 설치



Advantages of KVT Parallel Slide Gate Valve Over Other Types of Gate Valve

Exceptional Design Features of Spring Pack Loaded(SPL) Parallel Slide Gate Valves,

- ✓ KVT Parallel Slide Gate Valves(PSGV) are designed for more reliable sealing tightness and valve operation in fluid flow control. As a final control component the reliable tight shutoff function in the valve is most important control factor. KVT introduce the valves of a long lifetime with free from any problems. Each PSGV in this brochure is based on the principles of parallel slide gate design with independent discs, wide flat seats, variable numbers of spring pack to be allowed proper sealing forces and a sharp shaped edge on the discs. More than just assuring fluid seating tightness, KVT PSGV design provides freedom from sticking and binding result from thermal effects associated with wedge gate valves.
- ✓ No tendency to mark, notch or indent the sealing surfaces, even in presence of girt and positive contacting loads, because parallel slide gate valves close with a sliding action, not by compression. This results in better tightness and a longer maintenance free lifetime of the discs/seats sealing surfaces.
- ✓ Our, KVT, wide flat seating surface discs with a sharp shape edge have a cleaning action with intimate contact on the seats during the closing action. Any polluted impurities on the seats/discs are eliminated and the sealing contact is free from undesirable particles. It also reduce seat bearing stress and guarantee long life. The wide flat seating can minimize the effect of minor damage to the surface as sealing occurs over the entire surface.
- ✓ Since sealing is obtained by sliding, and not by compression, there is no need for final surge of torque to make the seating leak tight. No additional power is required for the first effort in unseating the discs. Therefore actuator size can be much smaller for a parallel slide gate valve than for the wedge type. Hammer blow or impact hand wheels are not usually necessary on parallel slide gate valves.
- ✓ Because of the low torque operation, the stress and fatigue on the trim is less on parallel slide gate valves, which results in longer lifetime and greater leak tight reliability.
- ✓ Since sealing is obtained by sliding, and not by compression, the exact position of stem is not critical when the valve is closed. As a result, there are no problems with differences in thermal expansion coefficient of material. Also the actuators can be stopped with general position switches.
- ✓ It is very much possible that wedge gate valves have a tendency to jam as a result of body contraction, if they are closed while hot, and cooled afterwards. Undesirable malfunction like this never occur with a parallel slide gate valves.
- ✓ In wedge gate valves, the wedge must have positioning guides on its sides to keep it in line while closing under full flow condition. These guides are not usually made of any hard material, and tend to wear, and eventually may cause jamming. This never occurs in KVT designed parallel slide gate valves, as the disc is guided only by its Stellite® hardfaced sealing surface.





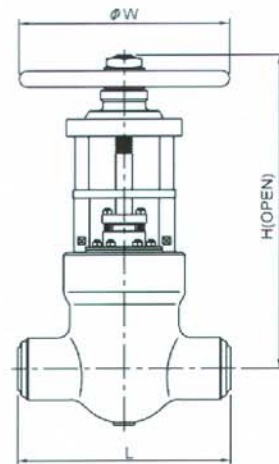
Fluid Flow & Valve Specialist

Hi-Fluidic® KVT Parallel Slide Gate Valves

Dimensional Table-Cast Steel Valves

ANSI CLASS 900LB

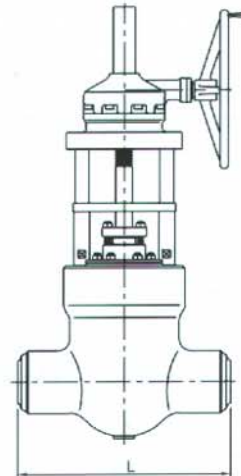
SIZE		L		H	W	WEIGHT LB APPROX. Kg
		RF	B.W			
2.5"	INCH	16.5	10	25.2	13.2	187.4
	mm	419.1	254	641	335	85
3"	INCH	15	12	30.5	13.2	220.5
	mm	381	304.8	775	335	100
4"	INCH	18	14	31.7	13.2	330.7
	mm	457.2	355.6	805	335	150
6"	INCH	24	20	50.4	17.7	595.2
	mm	609.6	508	1280	450	270
8"	INCH	29	26	58.7	17.7	903.9
	mm	736.6	660.431	1491	450	410
10"	INCH	33	31	74.6	23.6	1366.9
	mm	838.2	787.4	1895	600	620
12"	INCH	38	36	78.3	23.6	2292.8
	mm	965.2	914.4	1990	600	1040
14"	INCH	40.5	39	81.1	31.5	2888.0
	mm	1028.7	990.6	2060	800	1310
16"	INCH	44.5	43	90.9	31.5	3328.9
	mm	1130.3	1092.2	2310	800	1510
18"	INCH	48		95.1	31.5	3924.2
	mm	1219.2		2415	800	1780
20"	INCH	52		109.1	31.5	5291.0
	mm	1320.8		2770	800	2400
24"	INCH	61		11.8	31.5	
	mm	1549.4		300	800	



MANUAL OPERATION

ANSI CLASS 1500LB

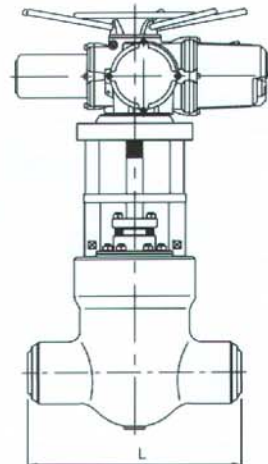
SIZE		L		H	W	WEIGHT LB APPROX. Kg
		RF	BW			
2.5"	INCH	16.5	10	25.2	13.2	110.2
	mm	419.1	254	641	335	50
3"	INCH	18.5	12	30.5	17.7	132.3
	mm	469.9	304.8	775	450	60
4"	INCH	21.5	16	31.7	17.7	264.6
	mm	546.1	406.4	805	450	120
6"	INCH	27.75	22	50.4	23.6	683.4
	mm	704.85	558.8	1280	600	310
8"	INCH	32.75	28	58.7	23.6	1058.2
	mm	831.85	711.2	1491	600	480
10"	INCH	39	34	74.6	31.5	1554.2
	mm	990.6	863.6	1895	800	705
12"	INCH	44.5	39	78.3	31.5	2369.9
	mm	1130.3	990.6	1990	800	1075
14"	INCH		42	81.1	31.5	3395.1
	mm		1066.8	2060	800	1540
16"	INCH		47	90.9	31.5	4739.9
	mm		1193.8	2310	800	2150
18"	INCH		53	95.1	31.5	5643.8
	mm		1346.2	2415	800	2560
20"	INCH		58	109.1	31.5	7804.3
	mm		1473.2	2770	800	3540



GEAR OPERATION

ANSI CLASS 2500LB

SIZE		L	H	W	WEIGHT LB APPROX. Kg
		B.W			
2.5"	INCH	13	25.2	13.2	127.9
	mm	330	641	335	58
3'	INCH	14.5	30.5	17.7	202.8
	mm	368	775	450	92
4"	INCH	18	31.7	17.7	396.8
	mm	457	805	450	180
6"	INCH	24	50.4	23.6	837.7
	mm	610	1280	600	380
8"	INCH	30	58.7	23.6	1565.3
	mm	762	1491	600	710
10"	INCH	36	74.6	31.5	2733.7
	mm	914	1895	800	1240
12"	INCH	41	78.3	31.5	3549.4
	mm	1041	1990	800	1610
14"	INCH	44	81.1	31.5	4806.0
	mm	1118	2060	800	2180
16"	INCH	49	90.9	31.5	6702.0
	mm	1245	2310	800	3040
18"	INCH	55	95.1	31.5	9038.9
	mm	1397	2415	800	4100



MOTOR OPERATION

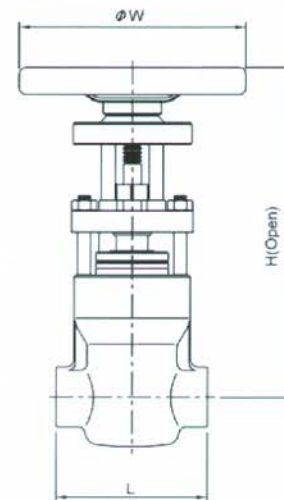




Dimensional Table – Forged Steel Valves

ANSI CLASS 900/1500LB

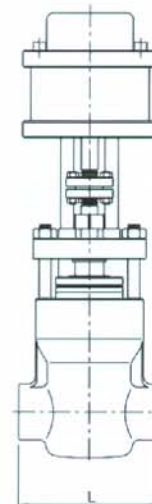
SIZE		L		H	W	WEIGHT LB Kg
		RF	B.W/S.W			
1/2"	INCH	8.5	4.6	10.4	6.9	15.4
	mm	216	117	265	175	7.0
3/4"	INCH	9	4.6	10.4	6.9	15.4
	mm	229	117	265	175	7.0
1"	INCH	10	5.1	11.4	6.9	26.5
	mm	254	130	289	175	12.0
1-1/2"	INCH	12	6.5	14.1	7.9	39.7
	mm	305	165	359	200	18.0
2"	INCH	14.5	8.0	17.4	9.8	70.5
	mm	368	203	441	250	32.0



MANUAL OPERATION

ANSI CLASS 2500/3500LB

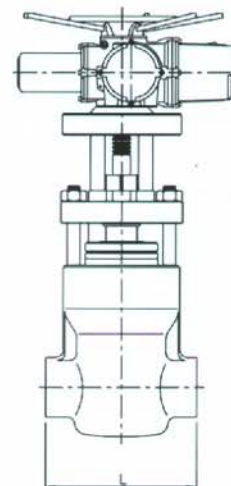
SIZE		L		H	W	WEIGHT LB Kg
		RF	B.W/S.W			
1/2"	INCH	10.38	5.1	11.0	6.9	24.3
	mm	264	130	279	175	11
3/4"	INCH	10.75	5.1	11.0	6.9	24.3
	mm	273	130	279	175	11
1"	INCH	12.12	6.5	12.4	7.9	35.3
	mm	308	165	314	200	16
1-1/2"	INCH	15.12	8.0	14.7	9.8	59.5
	mm	384	203	374	250	27
2"	INCH	17.75	8.6	18.1	9.8	105.8
	mm	451	218	460	250	48



PNEUMATIC POWER OPERATION

ANSI CLASS 4500LB

SIZE		L	H	W	WEIGHT LB Kg
		B.W/S.W			
1/2"	INCH	5.1	11.0	6.9	24.3
	mm	130	279	175	11
3/4"	INCH	5.1	11.0	6.9	24.3
	mm	130	279	175	11
1"	INCH	6.5	12.4	7.9	35.3
	mm	165	314	200	16
1-1/2"	INCH	8.0	14.7	9.8	59.5
	mm	203	374	250	27
2"	INCH	8.6	18.1	9.8	105.8
	mm	218	460	250	48



MOTOR OPERATION

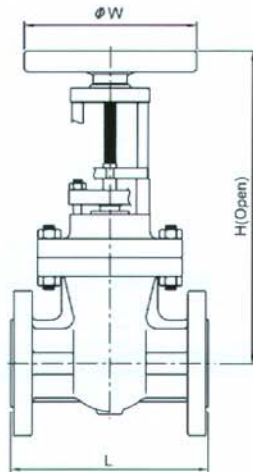


Fluid Flow & Valve Specialist

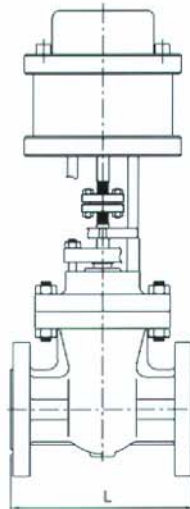
Hi-Fluidic® KVT Parallel Slide Gate Valves

Dimensional Table–Cast Steel–For Steam Service

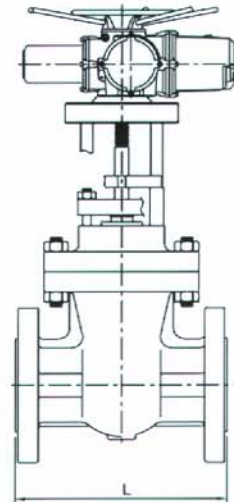
Special Designed KMP–100 PSGU–for Steam Service



MANUAL OPERATION



**PNEUMATIC POWER
OPERATION**



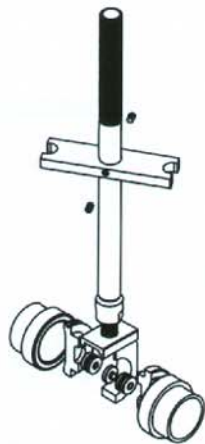
MOTOR OPERATION

ANSI CLASS 300LB,KS/JIS 20K - DIMENSIONAL TABLE

SIZE		L	H	W	WEIGHT LB Kg
		RF			
2.5"	INCH	9.5	18.5	7.9	70.5
	mm	241.3	470	200	32
3"	INCH	11.12	20.5	9.1	94.8
	mm	282.4	520	230	43
4"	INCH	12	24.8	9.8	141.1
	mm	304.8	630	250	64
6"	INCH	15.88	33.5	13.8	269.0
	mm	403.4	850	350	122
8"	INCH	16.5	43.3	15.7	429.9
	mm	419.1	1100	400	195
10"	INCH	18	49.2	17.7	617.3
	mm	457.2	1250	450	280
12"	INCH	19.75	59.1	19.7	892.9
	mm	501.7	1500	500	405
14"	INCH	22.5	63.8	22.0	1488.1
	mm	571.5	1620	560	675
16"	INCH	24	76.0	23.6	1968.7
	mm	609.6	1930	600	893
18"	INCH	26	82.7	27.6	2491.2
	mm	660.4	2100	700	1130
20"	INCH	28	88.6	31.5	3328.9
	mm	711.2	2250	800	1510
24"	INCH	32	123.2	35.4	5026.5
	mm	812.8	3130	900	2280



Material Table & KMP-100 Valve Application



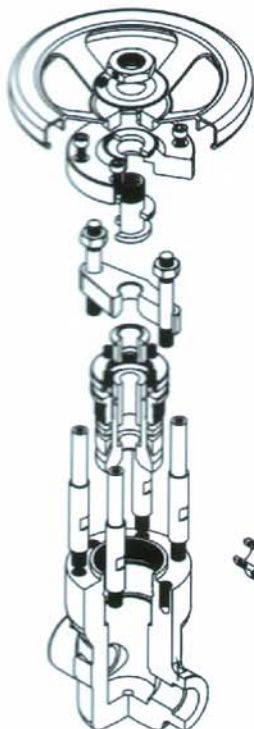
Application

- ◆ FEED WATER HEATER ISOLATION
- ◆ MAIN STEAM STOP & ISOLATION
- ◆ TEMPERATURE BOILER BLOW-OFF
- ◆ MAIN STEAM DRAINS
- ◆ HEATER DRAINS
- ◆ TURBINE DRAINS
- ◆ SOOT BLOWER STEAM ISOLATION
- ◆ SAFETY VALVE ISOLATION
- ◆ BLOWDOWN
- ◆ PSV BLOCK VALVE
- ◆ REHEATERS ISOLATION
- ◆ BOILER RECIRCULATION PUMP ISOLATION
- ◆ RAW WATER(RIVER)STOP VALVE
- ◆ HIGH TEMPERATURE SERVICE SYSTEM

Material Table

Standard Material Construction of Parallel Slide Gate Valves

Part Name	Carbon Steel	Alloy Steel			Stainless
	A216-WCB	A217-WC6	A217-WC9	A217-C12A	A351-CF8M
Body	A216-WCB	A217-WC6	A217-WC9	A217-C12A	A351-CF8M
Bonnet	A216-WCB	A217-WC6	A217-WC9	A217-C12A	A351-CF8M
Disc	SS410/A105+STL	WC6/F11+STL	WC9/F22+STL	C12A/F91+STL	SS316/CF8M+STL
Stem	A276-410	A276-410	A276-410/431	A276-410/431	A276-316/17-4Ph
Seat Ring	C/S1020+STL	A182-F11+STL	A182-F22+STL	A182-F91+STL	A276-F316+STL
Gasket	Mold Graphite	Mold Graphite	Mold Graphite	Mold Graphite	Mold Graphite
Packing	Graphite	Graphite	Graphite	Graphite	Graphite
Packing Gland	C/S1020	A276-410	A276-410	A276-410	A276-316
Bonnet Bolt	A193-B7	A193-B16	A193-B16	A193-B16	A193-B8
Bonnet Clamp	C/S1045	C/S1045	C/S1045	C/S1045	SS304
Gasket Retainer	SS410	SS410	SS410	SS410	SS316
Gasket Adaptor Ring	SS410	SS410	SS410	SS410	SS316





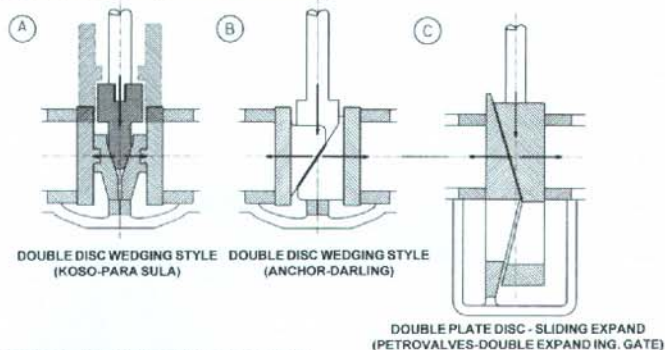
Gate Control Valves-Design Concept & Application

KVT KMP-100 Series parallel slide gate valves can be utilized as the most reliable final control component in the service of severe duty flow control application. A tight shutoff function could not be achieved in the globe control valves of high energy service application. To select the KMP-100 parallel slide gate control valve, even in the on-off and throttling control is the best solution in case of perfect sealing required. KVT offer a reliable control solution to maintain the zero leaks of the control valves as followings;

Sketches - (Trim Design of Parallel Slide Gate Valves)

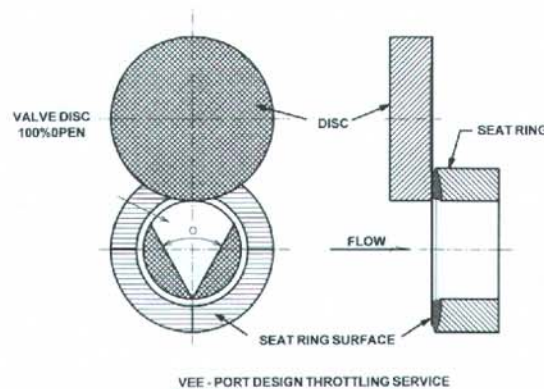
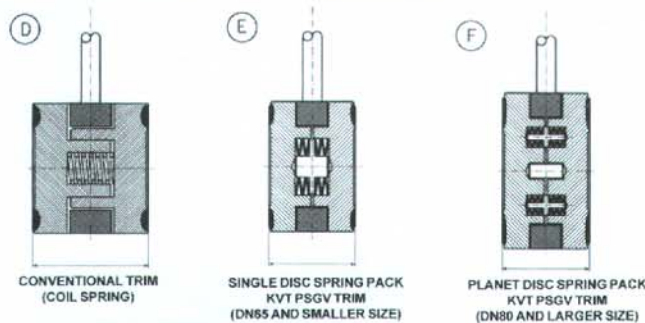
ON-OFF SERVICE ONLY

(NOT TO BE USED IN QUICK OPEN/CLOSE)



ON-OFF & THROTTLING SERVICE

(QUICK OPEN/CLOSE & SEVERE DUTY SERVICE AVAILABLE)

**ZERO LEAKAGE!**

A. Control Power Solutions

- Pneumatic power operating - for quick open/close or emergency safety function required

Upto 3" (DN80) with Pressure Class ANSI 2500#

4" (DN100) through 12" (DN300) with Press Class ANSI 600#

14" (DN350) through 20" (DN500) with Pressure Class ANSI 300#

- Most economical solution

- Reasonable solution

- Expensive solution

- Electro Hydraulic power operating - for emergency safety function and/or a larger size valves

4" (DN100) through 12" (DN300) with Pressure Class ANSI 2500#

14" (DN350) through 20" (DN500) with Pressure Class ANSI 1500#

24" (DN600) and larger sizes with Pressure Class ANSI 600#

- Reasonable solution

- Reasonable solution

- Best solution

- Motor operating - general service but not use for quick open/close and emergency safety function

2" (DN100) through 12" (DN300) with Pressure Class ANSI 4500#

14" (DN350) through 20" (DN500) with Pressure Class ANSI 2500#

24" (DN600) and larger sizes with Pressure Class ANSI 1500#

- Reasonable solution

- Reasonable solution

- Best solution

B. Control Mode Solutions

- ON-Off service with a tight shutoff sealing

Quick open/close - from 0.25 second

Zero-Leaks (better than ANSI/FCI Leakage Class VI) seating

Economical solution using pneumatic actuator - It is only available in KVT spring packed parallel slide gate valves patented.

Safety Function available easily of a pneumatic actuator

Outstanding technical solutions in the high temperature and high differential pressure service

- Throttling Control service

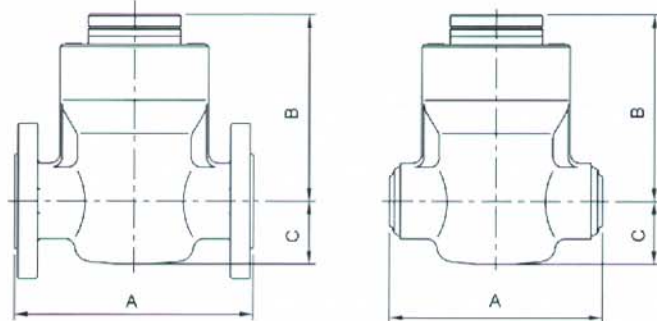
Positive tight shutoff in closed position

Linear, Equal percentage, and other flow characteristics available



Parallel Slide Gate Control Valve

Dimensional Table



Valve Size			3/4"	1"	1 1/2"	2"	2 1/2"	3"	4"	6"	8"	10"	12"
			200mm	25mm	40mm	50mm	60mm	75mm	100mm	150mm	200mm	250mm	300mm
WELD ENDS	CLASS 300	A	7.62	7.75	9.25	10.50	11.60	12.60	14.50	18.62	22.38	30.75	30.75
		B	194	197	235	267	292	318	368	473	568	781	933
		C	7.00	7.00	7.25	7.34	0.31	9.72	9.91	12.16	13.31	19.00	23.06
	CLASS 600	A	178	178	184	185	236	247	252	309	338	482	586
		B	2.56	2.56	2.88	3.50	4.06	4.44	5.38	7.69	10.25	13.00	15.00
		C	65	65	73	89	103	113	137	195	260	330	381
	CLASS 900	A	8.12	8.25	9.88	11.25	12.25	13.25	15.50	20.00	24.00	32.50	38.50
		B	206	210	257	286	311	337	394	508	610	826	978
		C	7.00	7.00	7.25	7.34	9.31	9.72	9.91	12.16	13.31	19.00	23.06
	CLASS 1500	A	178	178	184	186	236	247	252	309	338	482	586
		B	2.56	2.56	2.88	3.56	4.19	4.50	5.56	7.88	10.56	13.00	15.19
		C	65	65	73	90	106	114	141	200	268	335	366
	CLASS 2500	A	11.12	11.50	13.12	14.75	16.12	17.38	20.62	23.62	30.75	34.00	40.00
		B	282	292	333	375	409	441	524	600	781	864	1016
		C	10.00	10.00	10.15	10.15	12.15	12.47	13.56	14.61	16.06	22.06	26.06
FRANGED ENDS	CLASS 300	A	254	245	258	258	309	317	344	376	408	560	662
		B	2.50	2.75	3.00	3.75	4.44	4.56	6.12	8.12	10.82	13.00	15.56
		C	64	70	76	95	113	116	155	206	275	342	395
	CLASS 600	A	11.12	11.50	13.12	14.75	16.12	18.12	21.38	27.25	33.00	42.00	48.00
		B	282	292	333	375	409	460	543	692	838	1067	1219
		C	10.00	1.00	10.15	10.15	12.15	12.47	13.56	14.81	16.06	22.06	26.06
	CLASS 900	A	254	254	258	258	309	317	344	376	408	560	662
		B	2.50	2.75	3.00	3.75	4.44	4.81	6.12	8.94	11.25	14.00	15.31
		C	64	70	76	95	113	122	155	227	286	356	369
	CLASS 1500	A	12.12	12.50	14.12	15.375	17.38	19.62	23.12	32.25	40.50	54.00	62.00
		B	308	318	359	400	441	498	587	819	1029	1372	1575
		C	10.00	10.00	10.15	10.15	12.15	12.47	13.56	14.91	16.06	22.06	26.06
	CLASS 2500	A	254	254	258	258	309	317	344	376	408	560	662
		B	2.50	2.75	3.25	3.89	4.62	5.56	6.50	9.44	11.94	14.65	16.38
		C	64	70	83	99	117	141	165	240	303	378	416
FRANGED ENDS	CLASS 300	A	7.75	7.75	9.25	10.50	11.50	12.50	14.50	20.00	24.00	30.00	36.00
		B	197	197	235	267	292	318	368	508	610	762	914
		C	7.00	7.00	7.25	7.34	9.31	9.72	9.91	12.16	13.31	19.00	23.08
	CLASS 600	A	178	178	184	186	236	247	252	309	338	482	586
		B	2.56	2.56	2.88	3.56	4.19	4.50	5.56	7.88	10.56	13.00	15.19
		C	65	65	73	89	103	113	137	195	260	335	386
	CLASS 900	A	7.62	7.75	9.25	11.50	11.50	12.50	14.50	20.00	24.00	30.00	36.00
		B	194	197	235	292	292	318	368	508	610	762	914
		C	10.00	10.00	10.15	10.15	12.15	12.47	13.56	14.81	16.06	22.08	26.08
	CLASS 1500	A	254	245	258	258	309	317	344	376	408	560	662
		B	2.50	2.75	3.00	3.75	4.44	4.56	6.12	8.12	10.82	13.00	15.56
		C	64	70	76	95	113	116	155	206	275	342	395
	CLASS 2500	A	7.62	7.75	9.25	11.50	11.50	12.50	14.50	22.00	27.00	34.00	38.00
		B	194	197	235	292	292	318	368	559	686	864	965
		C	10.00	10.00	10.15	10.15	12.15	12.47	13.56	14.81	16.06	22.06	26.06
	CLASS 2500	A	254	254	258	258	309	317	344	376	408	560	662
		B	2.50	2.75	3.00	3.75	4.44	4.81	6.12	8.94	11.25	14.00	15.31
		C	64	70	76	95	113	122	155	227	286	356	389
	CLASS 2500	A	8.50	8.50	10.25	12.50	12.50	15.00	16.00	24.00	30.00	40.00	44.00
		B	216	216	260	318	318	381	406	610	762	1016	1118
		C	10.00	10.00	10.15	10.15	12.15	12.47	13.56	14.81	16.08	22.08	26.06
	CLASS 2500	A	254	254	258	258	309	317	344	376	408	560	662
		B	2.50	2.75	3.25	3.88	4.62	5.56	6.50	9.44	11.94	14.88	16.38
		C	64	70	81	99	117	141	165	240	303	378	416

Dimensions Shown in English and metric are subject to change without notice and should be used for estimating purposes only.

**KVT KMP-100 PSGV PRODUCT
ORDERING INFORMATION**

CATALOG NUMBER **P** **S** **G** - - - - - -

• **SIZE**

3/8	(DN10) - 10
1/2	(DN15) - 15
1	(DN25) - 25
1-1/4	(DN32) - 32
1-1/2	(DN40) - 40
2	(DN50) - 50
2-1/2	(DN65) - 65
3	(DN80) - 80
4	(DN100) - 1A
5	(DN125) - 1B
6	(DN150) - 1C
8	(DN200) - 2A
10	(DN250) - 2B
12	(DN300) - 3A
14	(DN350) - 3B
16	(DN400) - 4A
18	(DN450) - 4B
20	(DN500) - 5A
24	(DN600) - 6A

• **PRESSURE RATING**

ANSI 300#KS/JIS20K	----- (03)
ANSI 600#	----- (06)
ANSI 900#	----- (09)
ANSI 1500#	----- (15)
ANSI 2500/3500#	----- (25)
ANSI 4500#	----- (45)

• **BODY MATERIAL**

A105 (A216WCB)	----- (105)
A182-F22 (A217-WC9)	----- (F22)
A182-F304 (A351 CF8)	----- (304)
A182-F316 (A351 CF8M)	----- (316)
A182-F316L (A351 CF3M)	----- (16L)
A182-F304L (A351 CF3)	----- (04L)

• **ACTUATOR**

MANUAL	----- (H)
PNEUMATIC(PISTON)	----- (P)
PNEUMATIC(DIAPHRAGM)	----- (D)
MOTOR OPERATOR	----- (M)
HYDRAULIC POWER	----- (F)

• **SPECIAL COMMENTS**

SPECIAL PRESSURE CLASS	----- (S)
QUICK OPENING / CLOSING	----- (Q)
GATE CONTROL	----- (C)
OTHERS	----- (N)

• **APPLICATION CODE**

NUCLEAR	----- (N)
POWER PLANT	----- (T)
PETRO-CHEMICAL	----- (C)
SLURRY	----- (S)
OTHERS	----- (-)