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http://www.seibudenki.co.jp

Please use the contact form on our website for inquiries.

Register via the website to download a variety of technical data.

We offer a wide range of options not described in this catalog. Contact one of our offices or agents for additional information.



Ver. 1

Valve Actuators

General Catalog



SEIBU ELECTRIC & MACHINERY CO., LTD.

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Precise Flow Control

Water, electricity, gas, and petroleum: Vital elements that make our safe and comfortable lifestyle possible. And Seibu is working to ensure safe, accurate control worldwide.

Seibu began manufacturing valve actuators and gate drive mechanisms in 1954, recognizing their critical nature in bringing energy into our daily lives in the form of water, electricity, gas, and petroleum. We have pioneered a host of new industrial application fields and today we hold the top share of the Japanese market.

We will continue to meet the needs of an increasingly global world, applying unique technology and long experience in the field to provide customers with the optimal solutions.

















High-reliability actuators, electronically controlled for safe, powerful system operation.

Delivering environmental resistance, operability, and maintainability: Perfect for mission-critical systems

Compact, lightweight, simple construction offers excellent environmental resistance

Semflex valve actuators with electronic sensors offer compact, lightweight, simple construction. Designed to fit into even tight spaces, they come with IP68-rated waterproofing and double sealing on terminals for unsurpassed environmental resistance.

OExplosion-proof specification also available as an option.

Compliance standards

●JIS ●CE Marking ●UL Standards

Simple settings and remote operation for top-class operability in set-up and adjustment

Our all-in-one construction integrates the control unit, for immediate operation after you power up. It comes with a rich array of fluid control functions, and an intuitive control panel for quick and easy set-up and adjustment.

ORemote operation also available as an option. For example, a single PC (master) can operate and monitor up to 125 actuators via PROFIBUS.

Standard

Electric value open/close
LCD indicator Pushbutton limit switch and torque set (no need to open the cover)

Manual/electric select switch (defaults to electric on auto-recover)

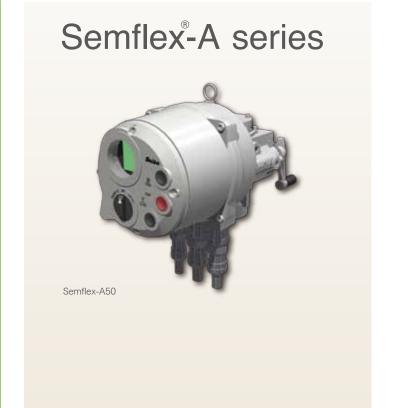
Fewer inspection items for faster maintenance and improved reliability

Semflex is designed for fewer, simpler inspections and disassembly steps, slashing maintenance time and cost, and with the optional self-diagnosis function can predict required maintenance. Semflex is the best choice for valve actuators in mission-critical systems!

Seibu Electric & Machinary Flow-Flexible

"Semflex" is a registered trademark of Seibu Electric & Machinery Co. Ltd. "Sem" standard for Seibu Electric & Machinery.

"Flex" stands for Flow-Flexible.



Max. output torque:50Nm/Max. thrust:25kN Semflex-A50 Output speed min⁻¹ (50/60Hz):1~100 Max. output torque:100Nm/Max. thrust:54kN Semflex-A100 Output speed min⁻¹ (50/60Hz):1~100



*Detail specifications available on request.

Semflex-VM series Semflex-VM-01

Max. output torque:150Nm/Max. thrust:70kN Semflex-VM-01 Output speed min-1 (50/60Hz) Max. output torque:550Nm/Max. thrust:130kN Semflex-VM-04 Output speed min-1 (50/60Hz) Max. output torque:850Nm/Max. thrust:160kN Semflex-VM-07 Output speed min-1 (50/60Hz) 11.3/13.5~75.9/91.1 Max. output torque:1800Nm/Max. thrust:270kN Output speed min-1 (50/60Hz) Semflex-VM-1 11.3/13.5~75.9/91.1

Semflex-VM-07



Semflex-VP series



Semflex-VP-010	Max. output torque:125Nm Open/close speed sec/90° (50/60Hz) 9/7.5·18/15
Semflex-VP-020	Max. output torque:250Nm Open/close speed sec/90° (50/60Hz) 18/15·36/30
Semflex-VP-060	Max. output torque:600Nm Open/close speed sec/90° (50/60Hz) 18/15·36/30
Semflex-VP-1	Max. output torque:1000Nm Open/close speed sec/90° (50/60Hz) 18/15·36/30
Semflex-VP-2	Max. output torque:2000Nm Open/close speed sec/90° (50/60Hz) 36/30·72/60



*Detail specifications available on request

The world's smallest power actuator

Semflex-A series actuators have on-board servomotors, delivering the same high-speed valve open/close performance as air actuators. The small, light design is perfect for installation in maintenance pits or other



Features

Small, lightweight design about the size of a sheet of paper.

A/B gears used in conventional designs have been eliminated, slashing operating noise to no more than 50 db.

Smaller actuator simplifies pipe design, and helps downsize plants overall

Servomotor speed control enables variable sleeve speed of 1~100min-

SURFDRIVE (minimal motor shaft vibration) function increases internal gear efficiency.

Valve interface complies with ISO5211.

Applications

Valves

Gates (flow control)

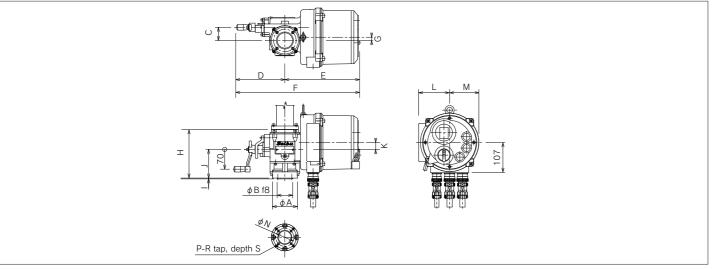
■Controller specifications

Function	Specification
Actuator type	Intelligent (internal motor drive)
Main power supply	AC 200V/400V class
Manual handle	Handle directly linked to motor shaft (manual power loss reduction)
Manual switch	Depress handle (manual operation recovery, interlocked)
Position indicator	LCD display (international icons)
Power control	Pushbutton switches (contactless)
Settings	Set from control panel (non-intrusive)
Position detection	Resolver encoder (maximized reliability)
Torque detection	Intelligent detection (improved accuracy)
External interface	Plug-in connector (reduced volume) Terminal strip type (option)
Standards compliance	CF. UL. IIS. NK

■Specifications

	Model	Max. output			Max. thrust	Flange	Max. shaf	t dia. (mm)	Output speed min-1	Motor		Mass
	Model	torque (Nm)	(kN)	size	Rod	Screw	(50/60 Hz)		Output kW	(kg)		
	Semflex-A-50	50	25	F07	28	30	1. 100	Three-phase 200V class	0.4	15		
l	Semflex-A-100	100	54	F10	38	40	1~100	Three-phase 400V class	0.75	16		

■Dimension drawings



■Dimensions

Model	ΦΑ	φВ	C		E	F	G	Н		J	K	L	M	φΝ	P	R	S
Semflex-A-50	90	55	47	181	265	446	12	220	3	102	15	110	104	70	4	M8	12
Semflex-A-100	125	70	50	185	270	455	14	216	3	97	16	110	104	102	4	M10	16
	V Dloc	oo inauir	o for one	oial inatall	lation or	on ironno	ntal ragi	iromonto	(\/ibration	. Maabaa	iom 10 n	any alast	rical cam	nononto o	wooding	O EC D	oioo oto

Butterfly valve implementation

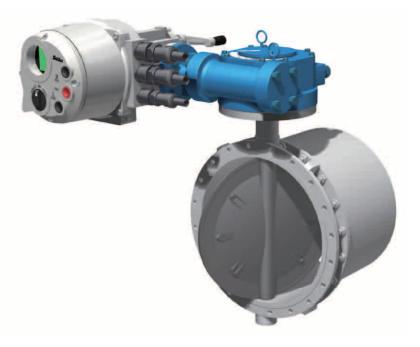
Model:Semflex-A-50 / BRM-3F

- 1.Motor operation Via the actuator panel (standard equipment)
- 2.Setting open/close limits and torque Settable with pushbutton switches.
- 3. Actuator status check Position, torque alarm and other status information can be checked on the LCD.



List of models by pipe diameter (reference values)

Model	Applicable butterfly valves (mm)	Applicable gate valves (mm)				
A-50	50~350	50~100				
A-100	250~400	100~150				



Note:We do not manufacture or sell valves.

Sample Semflex-A / BRM installation



Description

Installed as power actuator for an emergency cut-off on the wastewater path for a pharmaceuticals firm.

User requirements

Previously an air actuator was used to open and close this emergency cut-off valve, but the user wanted a rapid-action power valve that could be installed in a narrow pit.

Solution proposal

The Semflex-A series of power valve actuators with inboard servomotors was proposed, offering the same high-speed open/close action as air actuators. The power valve actuator is the smallest in the world, facilitating installation in a narrow pit.

Computerized actuators for even large-diameter pipes

Semflex-VM actuators, available with optional on-board inverter function, can handle variable open/close speeds, as well as offering a valve purge function, and water-hammer prevention design.

Features

Small, lightweight design (about half the mass of our prior model).

IP68-rated waterproofing and double sealing on terminals to minimize faults caused by liquid penetration.

Valve operation possible immediately after supplying power.

Supports wide range of operation

(water-hammer prevention, valve purge, torque retry, etc.).

On-board inverter (option) to adjust open/close speed.

2-wire PROFIBUS communication network (option) can be easily added.

Supports a variety of remote functions. Wireless communication means operation from anywhere, with simple status monitoring.

Explosion-proof ExdII BT4 construction (option).

Valve interface complies with ISO5211.

Applications



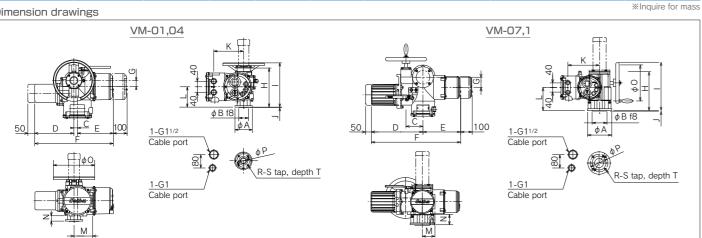
■Controller specifications

Function	Specification	Remarks
Main power supply	Three-phase AC 200V/400V class	Inquire for alternate power supplies
Control CPU	16-bit CPU with ADC and DAC, 16-MHz clock	
Position detection	Electronic absolute encoder, 16 pulse	
Torque detection	±5% precision	Worm motion sensing (contactless potentiometer)
LCD	Position (% open), fault icons, indicator, 3-character data	Displays with main power off
Basic operation	Open, stop, and close pushbuttons; Local/remote	
Adjustable open/close speed	Inverter (option)	
Position set	0%, 100%, and 4 intermediate user-defined points	User-definable within encoder count range
Torque set	User-adjustable between 30% and 100%	
Options	Inverter proportional control (stepless positioning), fieldbus support (PROFIBUS-DP), self-diagnosis	

■Specifications

Model	Max. output	Max. thrust	Flange	Max. shaf	t dia. (mm)	Output speed min-1	Motor							
Model	torque (Nm)	(kN)	size	Rod	Screw	(50/60 Hz)	Power supply	Output kW						
Semflex-VM-01	150	70	F10	34	40			0.2、0.4、0.75						
Semflex-VM-04	550	130	F14	50	58	11.3/13.5~75.9/91.1	Three-phase 200V class	0.75、1.5、2.2						
Semflex-VM-07	850	160	F16	60	72	11.5/15.5~/5.9/91.1	Three-phase 400V class	1.5、2.2、3.7						
Semflex-VM-1	1,800	270	F25	80	95			2.2、3.7						

■Dimension drawings



 1111011310113																			
Model	φА	φВ	С	D	Е	F	G	Н	1	J	K	L	М	N	φO	φР	R	S	Т
Semflex-VM-01	125	70	25	283	285	568	44	287.5	320	3	216	147	135	37	300	102	4	M10	30
Semflex-VM-04	175	100	22	298	310	608	48	340.5	370	4	260	170	132	90	450	140	4	M16	38
Semflex-VM-07	210	130	146	445	325	770	88	342	417.5	3	276	200	110	90	314	165	4	M20	45
Semflex-VM-1	300	200	173	479	375	854	115	365	468	5	305	225	113	100	400	254	8	M16	43

*Please inquire for special installation or environmental requirements. (Vibration: Mechanism 1G max., electrical components exceeding 0.5G, noise, etc).

VM Butterfly valve implementation

Model: Semflex-VM-01 / BRM-3F

- 1.Motor operation Via the actuator panel (standard equipment)
- 2.Setting open/close limits and torque Settable with pushbutton switches.
- 3. Actuator status check Position, torque alarm and other status information can be checked on the LCD.



List of models by pipe diameter (reference values)

	, i i	,
Model	Applicable butterfly valves (mm)	Applicable gate valves (mm)
VM-01	300~500	100~150
VM-04	600~900	200~500
VM-07	700~1000	300~700
VM-1	1000~1200	500~900



Note:We do not manufacture or sell valves.

Sample Semflex-VM installation



Description

Insulator wash system installed to prevent insulation degradation due to salt spray at insulator port. Semflex-VX was used to open and close the valve for wash water.

User requirements

The previous system had only on/off control, but the long pipe length resulted in abnormal pressure at close (water hammer). The customer required a slower valve closing speed to prevent water hammer issues.

Solution proposal

The Semflex-VM series with inverter control reduces valve open/close speed when the valve is almost closed, eliminating water hammer issues and delivering valve closure at nominal water pressure.

Computerized actuators for small-diameter pipes

Small and lightweight with IP68-rated waterproofing and optional explosion-proof construction, perfect for installation in hazard areas.



Features

Small, lightweight design (about half the mass of our prior model). IP68-rated waterproofing and double sealing on terminals to minimize faults caused by liquid penetration.

Valve operation possible immediately after supplying power.

Supports wide range of operation (water-hammer prevention, valve purge, torque retry, etc.).

On-board inverter (option) to adjust open/close speed. 2-wire PROFIBUS communication network (option) can be

Valve interface complies with ISO5211.

Applications

Gate valves Gates (flow control)

■Controller specifications

Function	Specification	Remarks
Main power supply	Three-phase AC 200V/400V class	
Control CPU	16-bit CPU with ADC and DAC, 16-MHz clock	
Position detection	Contactless potentiometer	
Torque detection	±5% precision	Worm motion sensing (contactless potentiometer)
LCD	Position (% open), fault icons, indicator, 3-character data	Displays with main power off
Basic operation	Open, stop, and close pushbuttons; Local/remote	
Adjustable open/close speed	Inverter (option)	
Position set	0%, 100%, and 4 intermediate user-defined points	User-definable within encoder count range
Torque set	User-adjustable between 30% and 100%	
Options	Inverter proportional control (stepless positioning), fieldbus support (PROFIBUS-DP),	

S p	ecif	cat	ion	IS

Model	Max. output	Flange	Max. shaft	Valve speed	Motor		Mass	
Model	torque (Nm)	size	dia. (mm)	sec/90° (50/60 Hz)	Power supply	Output W	(kg)	
Semflex-VP-010	125	F07	28	9/7.5~18/15		40	25	
Semflex-VP-020	250	FU/	20	18/15~36/30	Three-phase 200V class	40	25	
Semflex-VP-060	600	F10	42	18/15~36/30	· ·	100	30	
Semflex-VP-1	1,000	E1.4	60	18/15~36/30	Three-phase 400V class	200	F0	
Semflex-VP-2	2,000	F14	60	36/30~72/60		200	52	

Model	φΑ	φВ	С	D	E	F	G	н		J	K	L	М	N	Р	φR	S	т	U
Semflex-VP-010	90	55	167	3	379	201	113	20	121	186	56	64	68	R70	10	70	8	M8	15
Semflex-VP-020	90	55	107	3	3/9	201	113	20	121	100	50	04	00	N/U	10	70	0	IVIO	15
Semflex-VP-060	125	70	191	3	396	325	130	20	136	202	60	60	65	R110	8	102	8	M10	15
Semflex-VP-1	175	100	268	4	460	363	191	20	174	240	60	111	141	R110	70	140	8	M16	15
Semflex-VP-2	1/5	100	200	4	402	303	191	20	1/4	240	00	111	141	KIIU	70	140	0	IVI I O	15

**Please inquire for special installation or environmental requirements. (Vibration: Mechanism 1G max., electrical components exceeding 0.5G, noise, etc)

VP Butterfly valve implementation Model:Semflex-VP-010

- 1.Motor operation Via the actuator panel (standard equipment)
- 2.Setting open/close limits and torque Settable with pushbutton switches.
- 3.Actuator status check Position, torque alarm and other status information can be checked on the LCD.



List of models by pipe diameter (reference values)

	receive by paper distriction (received relates)
Model	Applicable butterfly valves (mm)
VP-010	50~100
VP-020	50~150
VP-060	150~300
VP-1	200~350
VP-2	250~400



Note:We do not manufacture or sell valves.

Sample Semflex-VP installation









Description

A midsize coastal petroleum tanker installed power freight handling and ballast piping valves. As the trial vessel for the national Super Eco-Ship (SES) research project, it completed national evaluations and is now in commercial service.

User requirements

Hydraulic actuators have been commonly used in hazard areas of petroleum and gas tankers to prevent explosions, but the requirement was for electric valve actuators to reduce the needed hydraulic machinery and marine pollution. Construction for the control system and wiring also needed to be reduced to minimize cost.

Solution proposal

The Semflex-VP and VM series of electric valve actuators were linked via the PROFIBUS field bus, significantly reducing control panel wiring. In addition, the system supports valve operational data monitoring and valve actuator preventive maintenance.

Seibu 10

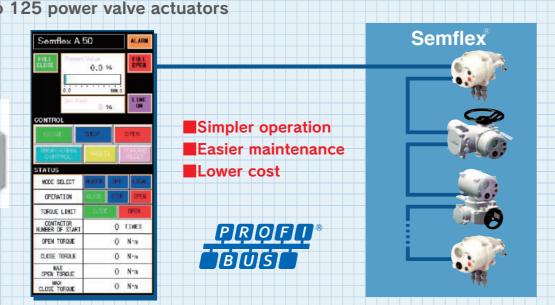
PROFIBUS-DP Control System

Supports the Semflex series





Package software Connect up to 125 power valve actuators



Monitor many data items (torque, motor current, number of operations, etc.) to prolong service life of actuators and valves by status control, self-diagnosis, and preventative maintenance (failure prediction).

General PROFIBI	JS-SP communic	cation specifications
Communication protocol	PROFIBUS-DP	
Interface	RS-485	
	Baud rate (kbit/s)	Cable length (without repeater
	9.6	1200m
	19.2	1200m
David rata / ranga	93.75	1200m
Baud rate / range	187.5	1000m
	500.0	400m
	1500.0	200m
	12000.0	100m
Wiring	Twist pair cable	
	DP Master class 1 (PL	C, PC, etc.)
Station types	DP Master class 2 (pro	ograming configuration tool)
	DP Slave (other slave s	systems)
Connected stations	32 stations without rep	eater
Connected stations	With repeater expandal	ble up to 125
Communication	Data: 8 bit	
settings	Parity: Odd	
30111193	Stop bit: 1	
Encoding	Non Return to Zero (N	RZ)

Electronic controls	Integral controls Seibu Semiflex series					
Baud rate detection	Automatic					
	OPEN					
Cantral signals	STOP					
Control signals	CLOSE					
	Proportional control [Option]					
	Limit switch OPEN/CLOSE					
	Torque switch OPEN/CLOSE					
Feedback signals	Opening/Closing signals					
reeuback signals	Position REMOTE					
	Valve position [Option]					
	Self diagnosis data [Option]					
	1.Motor protection tripped					
Fault signals	2.Torque abnormal					
-	3.Other					

Application examples

Steelmaking plant

Fast response, lower cost

The power valve actuator offers fast control response for accurate valve operation. Because it does not use conventional I/O contact control, installation wiring and labor costs are also reduced.

Simplified maintenance

Electronic sensors slash the component count, for a smaller, lighter, simpler construction, which simplifies maintenance and provides significant reductions in required personnel and man-hours.



Plant machinery

PROFIBUS-DB communication system

Semflex series products can be automatically controlled via PROFIBUS communication, contributing to unmanned operation, and improving operational safety and transport quality.

Self-diagnosis function

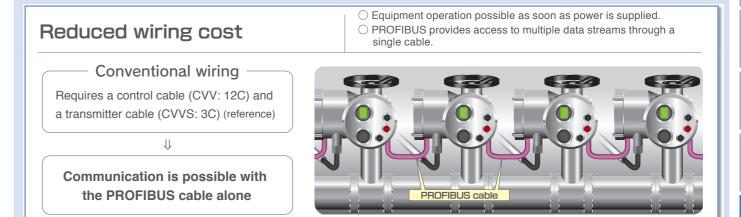
Various data items (torque, motor current, number of operations, etc.) can be monitored at high speed via the communication path for simple actuator and valve status management. Ideal for preventing trouble and





system merits

Digital communication between plant production equipment and the controlling PC enables a variety of control operations, while providing a host of advantages including improved communication accuracy and redundancy, and reduced wiring cost.







Ouick and easy support for valve purge, torque retry, variable speed



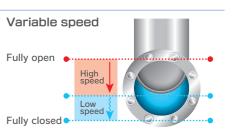
Valve halts close to fully closed, using flow to remove particles

Diverse control and operation

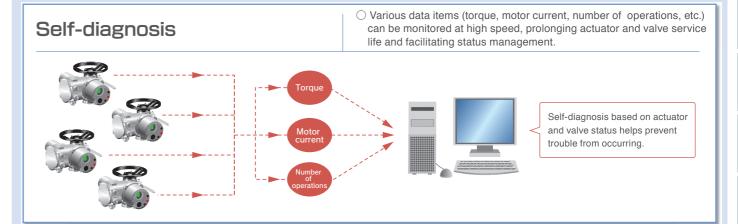
Foreign object

(option) and more.

After over-torque detection, open/close is repeated several times



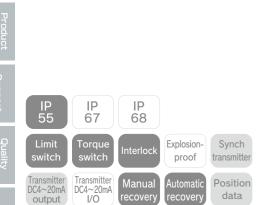
Speed is varied, with high-speed operation from fully open almost to fully closed, and then lowspeed operation until fully closed.



LTRH/LTRM

LTRH-01





LTRH-01 Allowable torque:120 Nm/Allowable thrust:38kN

Sleeve speed min⁻¹(50/60Hz) 10.9/13.0~35.6/42.8

**Sleeve speeds are reference only.

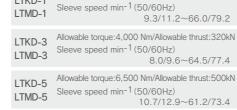




LTKD-02 Allowable torque:450 Nm/Allowable thrust:65kN LTMD-02 Sleeve speed min⁻¹ (50/60Hz) 10.5/12.7~66.0/79.2

LTKD-05 Allowable torque:850 Nm/Allowable thrust:105kN LTMD-05 Sleeve speed min⁻¹ (50/60Hz) 14.8/17.8~71.3/85.5

XSleeve speeds are reference only



LTKD-10B Allowable torque:12,000 Nm/Allowable thrust:1,100kN

LTMD-10B Sleeve speed min⁻¹ (50/60Hz)

XSleeve speeds are reference only.

10.6/12.8~63.1/75.7

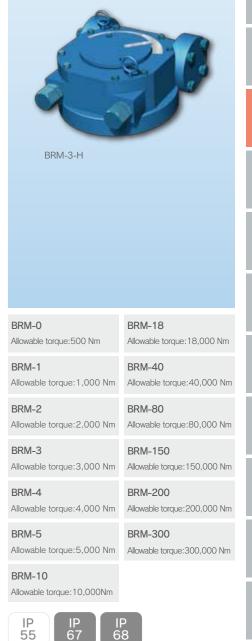








SRJ series



switch

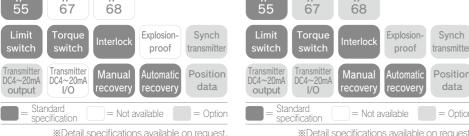
switch

proof

Manual Automatic Position

BRM series







■Dimension drawings

4-M10-depth18

■ Specifications

	100113						
NA	Allowable	Allowable	Allowable va	lve stem dia. (mm)	Sleeve speed min-1	Motor	
Model	torque (Nm)	thrust (kN)	Rising stem	Non-rising stem	(50/60 Hz)	Power supply	Output kW
LTRH-01 LTRM-01	120	38	28	30	10.9/13.1~35.6/42.8	Three-phase 200V class Three-phase 400V class (Please inquire for single-phase specifications)	0.1,0.2,0.4

			*Inquire for mass.
Motor output (kW)	0.1	0.2	0.4
Without brake	G3/4 / 209	G3/4 / 209	G3/4 / 202
KD/LL With brake Without Loosen equipment in ()	G3/4 / 195	G3/4 / 282 (259)	G3/4 / 285 (263)
Motor removal space X	80	80	80

**Please inquire for special installation or environmental requirements. (Vibration: Mechanism 1G max., electrical components exceeding 0.5G, noise, etc).

Features

Manual and automatic recovery

Safety mechanisms: limit switch, torque switch, interlock (LTRH only)

Compact and lightweight for easy installation into tight



Features

Manual and automatic recovery

Safety mechanisms: limit switch, torque switch, interlock (LTKD only)

Uses motor appropriate for valve. Improved safety with independent wiring using dedicated terminal box.

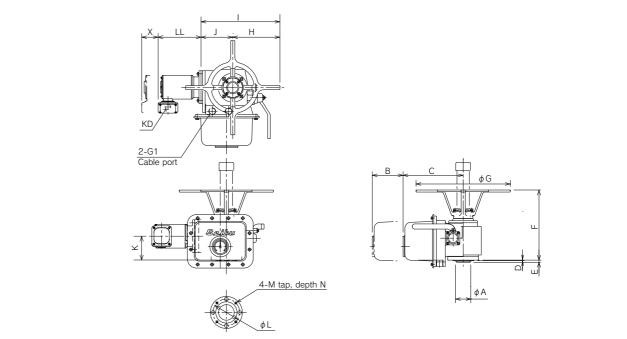
One-touch auto/manual select











■Specifications for	LTKD-01/02 and LTMD-01/02

Model	Allowable		Allowable val				e speed	Power supply Three-phase 200V class Three-phase 400V class Three-phase 400V class O/79.2 (Please inquire for single-phase or DC specifications) O.2.0.4					
Model	torque (Nm)	thrust (kN)	Rising stem	Rising stem Non-rising stem (50/60 Hz) Power supply						Out	Output kW		
LTKD-01/LTMD-01	250	45	28	30		10.6/12	2.6~71.3	8/85.5					0.4,0.75
LTKD-02/LTMD-02	450	65	40	42		10.5/12	2.7~66.0	0/79.2	(Please ind	quire for sir			0.75, 1.5
LTKD-01/LTMD-01 250 45 28 30 10.6/12.6~71.3/85.5 Three-phase 200V class Three-phase 400V class Three-ph				e for mass.									
Model	φΑ	В	C D	E	F	φG	- Н	1	J	K	φL	M	N
LTKD-01/LTMD-0	73	150 2	93 3	11 3	342	460	230	385	155	117	125	M10	17

LIND-UZ/LIMD-UZ	00 100 32/	4 12 3// 400	230 309 130 12	+2 100 WIZ 22
Motor output (kW)	0.2	0.4	0.75	1.5
Without brake	G3/4 / 209	G3/4 / 202	G3/4 / 215	G3/4 / 243
KD/LL With brake Without Loosen equipment in ()	G3/4 / 282 (259)	G3/4 / 285 (263)	G3/4 / 304	G3/4 / 334
Motor removal space X	80	80	80	80

**Please inquire for special installation or environmental requirements. (Vibration: Mechanism 1G max., electrical components exceeding 0.5G, noise, etc).



Features

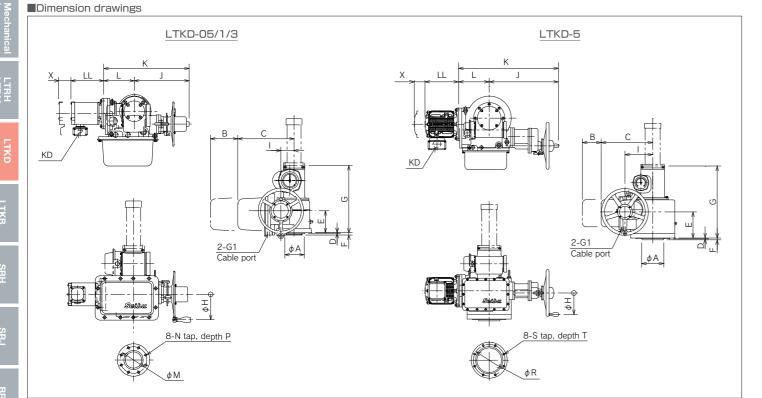
Manual recovery

Safety mechanisms: limit switch, torque switch, interlock

Uses motor appropriate for valve. Improved safety with independent wiring using dedicated terminal box.

Standard safety equipment prevents damage to valve and gate even if excess force applied in manual operation.

Available in submersible and explosion-proof specifications.



■ Specifications

KD/LL With brake

Without Loosen equipment in ()

Model	Allowable	Allowable		ve stem dia. (mm)		Moto	г
Model	torque (Nm)	thrust (kN)	Rising stem	Non-rising stem	(50/60 Hz)	Power supply	Output kW
LTKD-05	850	105	50	52	14.8/17.8~71.3/85.5	Three-phase 200V class	0.4,0.75,1.5,2.2,3.7
LTKD-1	1,750	200	62	70	9.3/11.2~66.0/79.2	Three-phase 400V class	1.5、2.2、3.7、5.5
LTKD-3	4,000	320	80	90	8.0/9.6~64.5/77.4	(Please inquire for single-phase or	3.7、5.5、7.5、11
LTKD-5	6,500	500	100	115	10.7/12.9~61.2/73.4	DC specifications)	5.5,7.5,11,15
Dimension	S						*Inquire for mass.
Mo	del	φA B		E F G		(P φR S T

Dimensions																*	Inquire	for mass.
Model	φА	В	С	ם	E	F	G	φН		J	K	L	φМ	N	Р	φR	S	T
LTKD-05	103	175	359	5	140	15	429	160	84	360	575	200	180	M16	25	_	-	_
LTKD-1	132	175	400	5	175	17	490	160	110	425	685	260	250	M16	25	_	-	_
LTKD-3	168	170	411	5	200	20	545	200	151	470	740	270	300	M20	30	_	_	_
LTKD-5	206	175	479	5	243	18	665	200	258	644	929	285	_	_	-	360	M24	40
		2.4		. = =				0.0		0.7								_
Motor output (kW)		0.4	().75		1.5		2.2		3.7		5.5		7.5		11		5
Without brake	G3/4	/ 202	G3/4	/ 215	G3/4	/ 24	3 G3/	4 / 2	64 6	3/4 / 2	278 G	3 / 3	12 G1	/ 350	G1	/ 435	G1 /	435

Motor removal space X 80 80 80 100 100 100 150 150 **Please inquire for special installation or environmental requirements. (Vibration: Mechanism 1G max., electrical components exceeding 0.5G, noise, etc).

G3/4 / ²⁸⁵/₍₂₆₃₎ G3/4 / 304 G3/4 / 334 G3/4 / 358 G3/4 / 392 G1 / 424 G1 / 467 G1 / 594 G1 / 594

Mechanical actuators

LTMD-05/1/3/5



Features

Manual recovery

Safety mechanisms: limit switch, torque switch, etc.

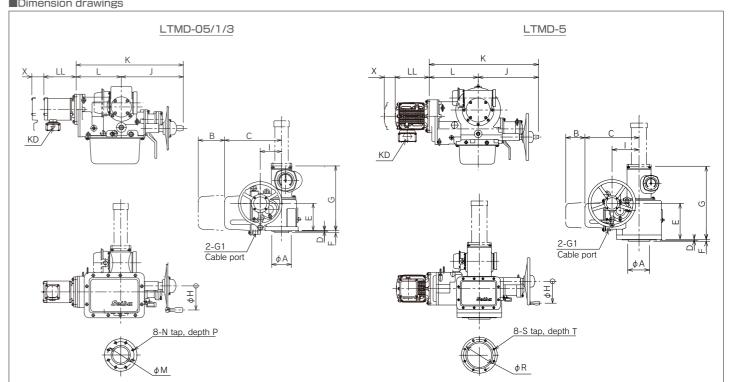
Uses motor appropriate for valve. Improved safety with independent wiring using dedicated terminal box.

Standard safety equipment prevents damage to valve and gate even if excess force applied in manual operation.

Available in submersible and explosion-proof specifications.

Note: Model also available with mechanical interlocks (LTMDG)

■Dimension drawings



■Specifications

Model	Allowable		vable		ble val				Sleey	e spec	ed min	-1			M	otor			
Model	torque (Nm)	thrus	st (kN)	Rising	stem	Non-r	ising s	tem	(8	50/60	Hz)		Pov	ver su	pply		Out	put kV	V
LTMD-05	850	1	05	5	0		52		14.8/1	7.8~7	1.3/85	5.5 _T	hree-ph	nase 20	OOV cla	188	0.4,0.75	,1.5,2	.2、3.7
LTMD-1	1,750	2	00	6	2		70		9.3/11	.2~66	5.0/79				OOV cla		1.5、2.	2、3.7、	5.5
LTMD-3	4,000	3	20	8	0		90		8.0/9	.6~64	.5/77.				ngle-phas		3.7、5.	5、7.5、	11
LTMD-5	6,500	5	00	10	00		115		10.7/1	2.9~6	1.2/73	3.4	C specific	cations)			5.5、7	5,11,	15
Dimension	S																*	Inquire 1	or mass.
Mo	del	φА	В	С	D	Е	F	G	φН	1	J	K	L	φМ	N	Р	φR	S	Т
LTMI	D-05	103	175	360	5	140	16	429	160	84	375	575	200	180	M16	25	_	-	_
LTMD-05 LTMD-1		132	175	400	5	175	17	490	160	110	425	685	260	250	M16	25	_	_	-
LTMI	D-3	168	170	411	5	200	20	545	200	151	470	740	270	300	M20	30	_	_	_

	L I IVID-O	100	170	I I	J	200	20 ,	J-4-J	200	101	4/0	/ 40	2/0	500	IVIZU	00			
	LTMD-5	206	175	477	5	242.5	18 6	365	200	258	645	929	285	_	_	-	360	M24	40
Moto	or output (kW)	0	.4	0	.75		1.5		2.2		3.7		5.5		7.5		11	1	15
	Without brake	G3/4	/ 202	G3/4	/ 215	5 G3/4	/ 243	G3/4	4 / 20	64 G	3/4 / 2	278 (31 / 3	12 G1	/ 350	G1	/ 435	G1	/ 435
KD/LL	With brake Without Loosen equipment in ()	G3/4	/ <mark>285</mark> (263)	G3/4	/ 304	4 G3/4	/ 334	G3/4	4 / 3	58 G	3/4 / 3	392 (91 / 42	24 G1	/ 467	G1	/ 594	G1	/ 594
Motor	removal space X	8	30	3	30		80		80		100		100		100		150	1	150

**Please inquire for special installation or environmental requirements. (Vibration: Mechanism 1G max., electrical components exceeding 0.5G, noise, etc).

Features

Manual recovery

Safety mechanisms: limit switch, torque switch, interlock (LTKD only)

Uses motor appropriate for valve. Improved safety with independent wiring using dedicated terminal box.

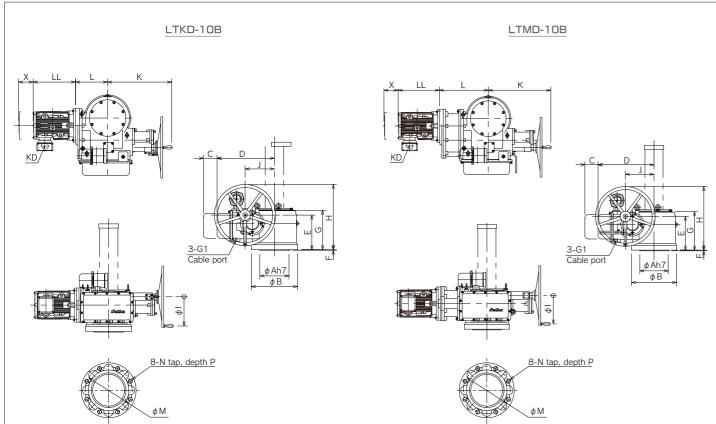
Standard safety equipment prevents damage to valve and gate even if excess force applied in manual operation.

One-touch auto/manual select

Available in submersible and explosion-proof specifications.

Output kW

■Dimension drawings for LTKD-10B and LTMD-10B



■Specifications for LTKD-10B and LTMD-10B

LTMD-10B	12000	11	00	115		135		10.6/12.8	~63.1/		Three-pl (Please inqui				11,15,1	8.5,22
Dimensions	6														*Inquire	e for mass
Mod	tel	φА	φВ	С	D	E	F	G	Н	φΙ	J	K	L	φМ	N	Р
LTKD-	·10B	300	475	140	590	355	8	405	670	300	302	660	330	406	M36	70
LTMD-	-10B	300	475	140	590	355	8	405	670	300	302	660	515	406	M36	70
Meterrend			7.5			- 11			15			105			00	
Motor out	.put (kw)		7.5			- 11			15			18.5			22	
KD/LL With	out brake	G	1 / 3	50	G	1 / 43	35	G	1 / 43	35	G	2 / 48	38	G	2 / 48	38
With	brake	G	1 / 4	67	G	1 / 59	94	G	1 / 59	94	G	2 / 69	57	G	2 / 65	57

150 150 **Please inquire for special installation or environmental requirements. (Vibration: Mechanism 1G max., electrical components exceeding 0.5G, noise, etc) Mechanical actuators

LTKB-01A/02A/05A

Highly automated plants are running at faster speeds than ever, leading to rising demand for improvements in reliability and service life in output shafts of gate valves, globe valves

The LTKB uses a ball screw instead of the conventional screw to significantly prolong service life and boost

Features

Excellent screw efficiency makes possible smaller, lighter drives and motors.

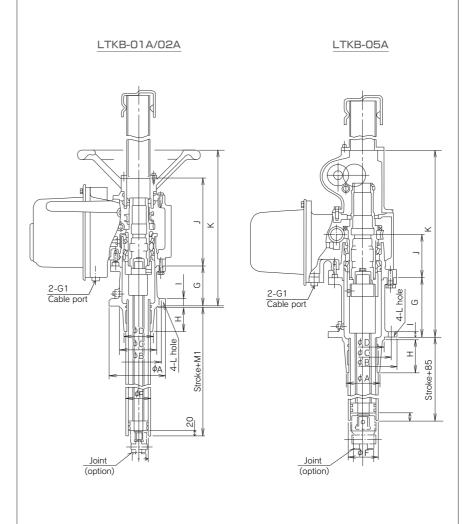
The protection cylinder completely encloses the ball screw section.

The valve stem screw remains in contact, achieving a transmission efficiency of 90% or higher.

Low thread wear and long service life even in high-frequency operation.

Note: Large-capacity designs for -1A, -3A and larger are also available. Inquire for details.

■Dimension drawings





Model	Allowable	Allow		Allowable val	ve stem dia	a. (mm)		peed min			Motor		
Model	torque (Nm	thrust	t (kN) 🗆	Rising stem	Non-risin	g stem	(50/	60 Hz)		Power	supply	Out	put kW
LTKB-01A	250	4!	5	_	30)	10.0/12.0	~67.5/8			200V class		0.2,0.4
LTKB-02A	450	6!	5	_	42	2	10.0/11.9	~62.5/7			400V class single-phase of		0.4,0.7
LTKB-05A	850	10)5	_	75	5	10.0/12.0	~67.5/8		Sase inquire for C specifications		0.4、	1.5,2.2
											,		
Dimension	S										,	 ∦Inq	uire for m
■Dimension:		φΑ	φВ	φС	φD	φF	G	н		J	K	*Inq	uire for m
	del	φΑ 1 <i>7</i> 5	φB 140	φC 100h7	φD 90	φF 65	G 125	H 75	l 15	J 242	K 407	*Inq L φ12	Mı
Mod	del 01A									J	K	L	

**Please inquire for special installation or environmental requirements. (Vibration: Mechanism 1G max., electrical components exceeding 0.5G, noise, etc)

19 Seibu

Motor removal space X

■Dimension drawings

21 Seibu

■Dimensions	
Model	Α
SRH-007	100
SRH-020	121

Dimensions	
Model	Α
SRH-007	100
CBH USU	101

A small, lightweight, easy-to-handle actuator

The body is made of aluminum and the cover of engineering

Inside, a worm gear/spur gear combination minimizes volume.

Terminal chamber is separated from switch to assure ample



■Specificat	tions			
	Model	SRH-007	SRH-020	SRH-060
Allowa	able output torque (Nm)	70	200	600
Open/clos	e speed (sec/90°)50/60 Hz	12/10	•24/20	18/15•36/30
	Power supply (V)		Single-phase 100, 200	
	Output(W)	10	40	100
Motor	Insulation class		E	
	Thermal protector		Internal	
	Space heater		8W	
Micros	switch contact capacity		AC250V 5A	
	Lead port		2-G1/2	
Αı	mbient temperature		-10℃~50℃	
Pro	tective construction	IP55	/JPW55(outdoor-use waterpro	ofing)
	Terminals		Screw M3.5×12P	

į	Dimensions														
	Model	Α	В	С	D	E	F	G	Н	1	J	K	L	M	N
ĺ	SRH-007	100	108	128	φ90	φ55f8	φ20	15	60	75	20	70	M8	15 -0.05 -0.09	5
	SRH-020	121	135	139	φ90	φ55f8	φ28	35	63	90	30	70	M8	□23 ^{-0.06} -0.11	6
Ī	SRH-060	158	164	164	φ125	φ70f8	φ39	40	85	133	35	102	M10	30 -0.05	6

*Please inquire for special installation or environmental requirements. (Vibration: Mechanism 1G max., electrical components exceeding 0.5G, noise, etc).

Completely waterproof compact actuator



Features

Waterproof terminal chamber with submersible IP68

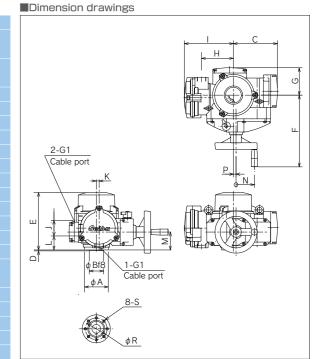
Rich range of options, including angle transmitter, RI converter, and proportional control.

ExdII BT4 explosion-proof construction available.

Valve interface complies with ISO5211.



■Specifications SRJ-2 SRJ-010 SRJ-020 SRJ-1 Allowable output torque(Nm) 1,000 2,000 9/7.5 18/15 18/15 18/15 36/30 (sec/90°) 50/60 Hz 72/60 Max. shaft dia.(mm) 60 Output(W) 100 200 200 lotor Insulation class Brake Thermal protecto MicroswitchRLS(1a1b),LLS(1a1b) Torque switch MicroswitchRTS(1a1b)、LTS(1a1b) Automatic recovery, with handle Design life 10,000 cycles with valve load, 500,000 starts Motor(M4-3P),control(M4-32P) 3-G1 Lead port Pressure-resistant, Exd II BT4(option) explosion-proof Standard paint (Munsell N8) Ambient temperature -10℃~50℃ Included (PTCthermistor) Space heater IP68



Dimensions																	
Model	φА	φВ	С	D	E	F	G	Н	1	J	K	L	M	N	Р	φR	S
SRJ-010	90	55	167	3	218	281	104	121	186	56	10	64	68	70	10	70	M8
SRJ-020	90	55	107	5	210	201	104	121	100	56	10	04	00	70	10	70	IVIO
SRJ-060	125	70	191	3	235	325	130	136	202			60	65		8	102	M10
SRJ-1	175	100	267	4	296	363	191	174	240	60	0	111	141	110	70	140	M16
SRJ-2	1/5	100	20/	4	230	303	191	1/4	240				141		/0	140	IVI I O

**Please inquire for special installation or environmental requirements. (Vibration: Mechanism 1G max., electrical components exceeding 0.5G, noise, etc).

■ Motorized type

Worm reducers also usable as motorized actuators

Features

Compact, lightweight design.

At least 30% smaller and 20% lighter than our previous design.

Outstanding resistance to corrosion and environmental

More variations than ever for the optimal specifications.

Valve interface complies with ISO5211.

The gear case is made of tough ductile casting, the worm gear of heat-treated structural-use carbon steel, and the worm wheel of wear-resistant aluminum-brass alloy. It is packed with multi-purpose lithium-soap-based grease for long-term, maintenance-free operation.

■ Manual type

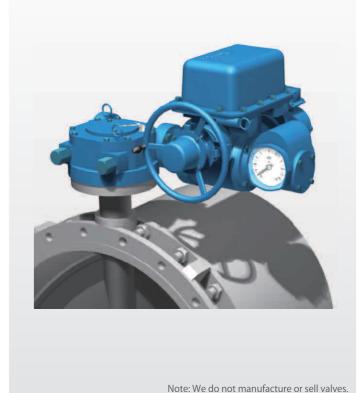


Model:Semflex-VM-01/BRM-3F

BRM Butterfly valve application example

Model:LTKD-05/BRM-10F





■BRM series basic specifications

Τ.		Model	BRM-0	BR	VI-1	BF	RM-2	BR	M-3	В	BRM-4		BRM-	5		BRM	1-10			BRM-	-18			Е	3RM-4	0			ВІ	RM-80				BRM-1	50			BR	M-200				BRM-	300	
		viouei	DIXIVI-C	Stan	S -1B	Stan -	-1S -1B	Stan -	1S -1	B Stan dard	-1S -	-1B S	tan -1S	-1B	Stan - dard	·1S -1	B -2S	-2B	Stan -	1S -1	B -2S	-2B	Stan dard	-1S -	-1B -2	2S -2	В -3В	Stan dard -1	1S -1E	3 -2S -	2B -3	B Stan dard	-1S	-1B -29	S -2B	-3B S	tan -19	S -1I	B -2S	-2B	-3B S	tan -1	S -1B	-2S -2	2B -3B
S	Input	Motorized:F	×	0 :	< 0	0	× O	0	× O	0	×	0	0 0	0	0	0 0	×	×	0	0 0	×	×	0	0	0	× ×	×	0 (0 0	×	×	. 0	0	0 ×	×	×	0 0	0	0	×	×	0 0		0 0) ×
	type	Manual:H	0	0 (0	0	0 0	0	0 0	0	0	0	0 0	×	×	0 0	0	0	×	0 0	0	0	×	×	×	0 0	0	×	× ×	0	0 0) ×	×	× O	0	0	× ×	×	×	0	0	×	×	×	< 0
		Allowable torque (Nm)	500	1,0	00	2,	,000	3,	000		4,000		5,000)		10,0	000			18,0	00				40,000)			8	30,000				150,00	D			20	00,000				300,0	000	
ğ	Output specifi-	Gear ratio	1/40	1/40 1/	30 1/80	1/60 1/	/150 1/150	1/60 1/	150 1/15	50 1/60	1/150 1/	/150 1/	60 1/150	1/150	1/60 1/	/180 1/18	30 1/540	0 1/450	1/60 1/	/180 1/18	80 1/540	0 1/540	1/60	1/240 1/	/240 1/9	960 1/72	20 1/2,400	1/65 1/2	260 1/260	0 1/1,040 1/	780 1/3,1	20 1/65	1/325	1/325 1/1,62	25 1/1,300	1/4,875	/65 1/32	25 1/32	25 1/1,625	1/1,300 1	4,875 1/	/65 1/3	25 1/325 1	/1,625 1/1,	300 1/4,875
	cations	Output flange bolt size Bolt tightening torque	F10,M10	F12,M1	2,32Nm	F14、M	16、76Nm	F16,M2	0.121N	m F16.N	//20,162	2Nm F	20,M16,	35Nm		F20,M1	6.65Nn	n	F	30.M20	.201Nn	n		F35、	M30,5	62Nm			F40、M	36、1,182	Vm		F48	3、M36、1,2	242Nm			F60.M	136,796	Nm		F	60,M36,	1,194Nr	ı
Produ		Allowable valve rod dia. (mm)	28	3	8		50	6	60		75		75			100	(95)			115(1	10)			1	50(14	5)				180				220					280				32	0	
Į,		ical advantage ratio x efficiency)	12	12 23	3.3 23.3	18 4	13.7 43.7	18 4	3.7 43	.7 18	43.7 4	13.7 1	18 43.7	43.7	18 5	52.4 52	4 152.4	4 127	18 5	52.4 52.	4 152.4	1 127	18	69.8	69.8 2	71 203	3.2 657.1	19.5 75	5.7 75.7	7 293.6 22	20.2 854	4.3 19.5	94.6	94.6 458	.7 367	1,335 1	9.5 94.	6 94.	6 458.7	367 1	,335 1:	9.5 94	.6 94.6	458.7 36	67 1,335
<u> </u>	Input	Torque (Nm)	41.7	83.3	42.9	111.1 4	15.8 45.8	166.7 6	8.7 68.	.7 222.2	91.6 9	91.6 27	77.8 114.5	114.5	555.6 1	90.9 190	.9 65.6	3 78.7	1,000 3	43.6 343	.6 1 1 8.1	1 141.7	2,222	572.7 5	72.7 14	17.6 196	6.8 60.9	4,103 1,0)57 1,05	7 272.5 36	3.4 93	.6 7,692	1,586	1,586 32	7 408.8	3 112.4 10),256 2,11	4 2,11	14 436	545	150 15	5,385 3,1	71 3,171	645 8	17 225
oport	Input shaft	Speed (Rev)	10	10	20	15 3	37.5 37.5	15 3	7.5 37.	.5 15	37.5 3	37.5	15 37.5	37.5	15	45 45	5 135	112.5	15	45 45	135	112.5	15	60	60 2	40 18	0 600	16.3 6	65	260 1	95 78	16.3	81.3	81.3 406	.3 325	1,218.8 1	6.3 81.	3 81.	3 406.3	325 1	218.8 1	6.3 81	.3 81.3 4	406.3 32	25 1,218.8
	Mass	(kg)	7.5	13	17.5	19.5	25 24	22 2	7.5 26.	.5 34.5	42.5 4	15.5 3	7.5 45.5	48.5	66.5	85 95	.5 98	96	116 1	37 14	5 153	148	202	232 2	247 2	55 26	1 266	397 44	43 489	9 480 4	72 51	0 867	989	1,060 1,09	00 1,034	1,1201	010 1,17	70 1,26	60 1,250	1,2101	,280 1,3	370 1,6	70 1,720 1	1,820 1,7	60 1,860

1 The valve drive torque should be set within the allowable BRM torque.

2 Use 1 or 2 keys to connect to the valve stem as appropriate. Values in parentheses are for old-style JIS key.

3 Input types marked "X" are also available. Inquire for details.

Mechanical advantage is the ratio between input-shaft torque and output-shaft torque (for efficiency, worm gear: 0.3, spur/bevel gear: 0.97).

5 Input-shaft torque shown for an output-shaft torque within the allowable torque.

6 Before attaching the BRM to a valve, please ensure that the strength class of the bolts is at least 10.9, and the length of engagement sufficient. Torque value shown in the minimum.

Note: The above values are subject to change without notice.

*Please inquire for special installation or environmental requirements. (Vibration: Mechanism 1G max., electrical components exceeding 0.5G, noise, etc).

Electronic			A			Max. shaf	t dia. mm		Transmitter spe	cifications					Waterproofin	g
actuators		Manual recovery	Automatic recovery	Max. torque Nm	Max. thrust kN	Rod	Screw	Synchro	Resistance (potentiometer)	DC4~20mA	DC4~20mA I/O	Network (PROFIBUS)	Inverter (variable speed)	IP55	IP67	IP68
- 0		A-50	A-50FJ	50	25	28	30	_	_	0	0	0	0	_	_	0
emflex-A		A-100	A-100FJ	100	54	38	40	_	_	0	0	0	0	_	_	0
emflex-VM	Multi-turn	VM	-01	150	70	34	40	_	_	0	0	0	0	_	_	0
ellillex-vivi	motorized	VM	-04	550	130	50	58	_	_	0	0	0	0	_	_	0
		VM	-07	850	160	60	72	_	_	0	0	0	0	_	_	0
Sales .		VM	-1	1,800	270	80	95	_	_	0	0	0	0	_	_	0
emflex-VP		_	VP-010	125	_	28	_	_	_	0	0	0	0	_	_	0
A 272-		_	VP-020	250	_	28	_	_	_	0	0	0	0	_	_	0
	Partial-turn	_	VP-060	600	_	42	_		_	0	0	0	0		_	0
ACC.	motorized	_	VP-1	1,000	_	60	_	_	_	0	0	0	0		_	0
		_	VP-2	2,000	_	60	_	_	_	0	0	0	0	_	_	0
											<u> </u>					
Mechanical		Manual	Automatic	Allowable	Allowable	Allowable valve	stem dia. mm		Transmitter spe	cifications		Network	Inverter		Waterproofing	5
actuators		recovery	recovery	torque Nm	thrust kN	Rod	Screw	Synchro	Resistance (potentiometer)	DC4~20mA	DC4~20mA I/O	(PROFIBUS)	(variable speed)	IP55	IP67	IP68
TRH TRM		LTRH-01	LTRM-01	120	38	28	30	0	(poteritionieter)	output	_	*2 _	_	0	0	_
TKD/LTMD		LTKD-01	LTMD-01	250	45	28	30	0	0	0	0	_	_	0	0	
eries _		LTKD-02	LTMD-02	450	65	40	42	0	0	0	0	_	_	0	0	0
1100		LTKD-05	LTMD-05	850	105	50	52	0	0	0	0	_	_	0	0	△(KD not availa
	Multi-turn	LTKD-1	LTMD-1	1,750	200	62	70	0	0	0	0		_	0	0	△(KD not availa
	motorized	LTKD-3	LTMD-3	4,000	320	80	90	0	0	0	0		_	0	0	△(KD not availa
		LTKD-5	LTMD-5	6,500	500	100	115	0	0	0	0		_	0	0	△(KD not availa
-0-		LTKD-10B	LTMD-10B	12,000	1,100	115	135	0	0	0	0		_	0	0	△(KD not availa
TVD **		LTKB-01A	LTMB-01A	250	-	_	30	0	0	0	0		_	0	0	
TKB eries		LTKB-01A	LTMB-02A	450	_	_	42	0	0	0	0		_	0	0	_
eries		LTKB-05A	LTMB-05A	850	_	_	75						_	0	0	
D.I.		— —	SRH-007	70	_	⁻ 15:		0	0	0	0	_	_	0	_	
RH			SRH-020	200	_	⁻ 13 :			0	0			_	0		_
eries				600	_						0				_	_
	B		SRH-060	125	_	□30 : 28	-0.11		0	0	0		_	0	_	
	Partial-turn motorized	_	SRJ-010						0	0	0		_	_	_	0
RJ	motorized		SRJ-020	250 600	_	28 42	_		0	0	0		_		_	0
eries William			SRJ-060 SRJ-1	1,000	_		_		0	0	0		_		_	0
		_	SRJ-1	2,000	_	60	_		0	0	0		_		_	0
		BRN		500	_	60	_				0				_	
DM				1,000	_	38									0	0
RM		BRN		2,000			_								0	0
eries		BRN			_	50	_							_	0	0
		BRN		3,000	_	60	_								0	0
	Partial turn	BRN		4,000	_	75	_								0	0
(Manual)	auto/manual	BRN		5,000	_	75	_							_	0	0
			M-10	10,000	_	100(95) *1	_							_	0	0
			1-18	18,000	_	115(110) _{*1}	_								0	0
			1-40	40,000	_	150(145) _{*1}	_								0	0
(Auto)			1-80	80,000	_	180	_								0	0
0.7			M-150	150,000	_	220								_	0	0
			1-200	200,000	_	280	_							_	0	0
			1-300	300,000	_	320	_									

**1 Values in parentheses are for old-style JIS key. **2 Inquire for information on manual actuators equipped with network communication or inverters.

**Please inquire for special installation or environmental requirements. (Vibration: Mechanism 1G max., electrical components exceeding 0.5G, noise, etc).

Sapporo

Full support to keep your system running smoothly!

Actuators must be maintained to ensure that they function when they're needed, especially in emergency situations. Expert technology and long experience means that inspections are performed as dictated by the specifics of each installation, backed up by emergency repairs as required.

Service Locations

Sendai Hiroshima Kyushu

Warranty period

One year from product shipment

Any manufacturing defects will be handled free of charge during the warranty period.

Maintenance engineering (ME) to prevent trouble before it happens, for heightened reliability!



Eliminating mechanical breakdown promotes smooth operation and slashes cost.



Detecting and rectifying minor problems before they interfere with operation.

Class A inspection

1–5 years from product shipment

On-site inspection of external appearance, operating circuits, insulation, etc.

Class B

5-7 years from

product shipment

inspection

Class A inspection. control mechanisms

plus inspections of and gears.

Class C inspection

7–10 years from product shipment

Disassembly at our plant, with parts replacement and repairs as needed.

Emergency response

Prompt investigation and repair as needed in emergency situations.

Electrical insulation measurement



Limit switch inspection



Grease removal



gear check Internal



Disassembly and inspection



Reassembly and testing



Emergency investigation



Motor replacement



A variety of deterioration occurs inside the mechanical system over time



Limit switch contacts deteriorate, making it impossible for the system to stop at the specified



Lubricant solidifies, eliminating all lubrication function.



Torque microswitch contacts fuse making it impossible to stop the actuator in emergencies.



Seibu valve actuators are inspected with care, one at a time, before delivery.

Our actuators are utilized in a host of systems demanding precise, reliable control of water, electricity, gas, petroleum, and more, and because they are such critical components, actuators must deliver safe, accurate action. Every part purchased for use in a Seibu actuator, or manufactured in our own shops, is stringently tested, and each completed actuator assembly tested again before shipment.

Parts receiving











Processing and assembly











Inspection



Shipment









- Request for quote -

To: Seibu Electric & Machinery Co., Ltd.	(Date:	/ /

(03)5628-0023 FAX Tokyo Branch FAX Hiroshima Sales Office (082)502-1653 Osaka Branch (06) 4796-6707 Sapporo Sales Office (011)221-3392 (052)800-5030 (022) 797-6696 Nagoya Sales Office Sendai Sales Office (092)941-1522 Kyushu Sales Office

Company name:		
Dept.	Contact name:	
Tel:	Fax:	
	·	

1	Industry	☐ Waterworks/sewerage☐ Petroleum, industrial cher	nicals	☐ Electric power☐ Waterways	☐ Steel ☐ Othe	
2	Place of delivery					
3	Valve type	☐ Butterfly	☐ Gate	valve	☐ Gate	☐ Other
4	Specification dia.					
5	Specification objective	☐ On/off	☐ Flow control			
		☐ Other ()
6 :	Standards compliance	☐ Manufacturer standard	☐ Other	. ()
7	Installation site	☐ Outdoors	☐ Indoo	ors		
8	Waterproofing	□ IP55	□ IP67		□ IP68	
9 1	Explosion-proofing, etc.	☐ Standard	☐ d2G4	ı	☐ Exd II BT4	
10	Supply power	Drive power ()) Eg. Triple-pha	ase 200V 50Hz
		Control power ☐ Single-pha	se 200V cl	lass 🗌 Single-pl	nase 100V class	☐ No supply
		☐ Other ()
11 Actuator specification		☐ Manual recovery	☐ Autor	natic recovery		
12	Required torque, load					
13 Open/close speed		☐ Manufacturer standard	☐ Other	. ()
14 Paint specification		☐ Manufacturer standard	☐ Other	. ()
Com	ments and questions					