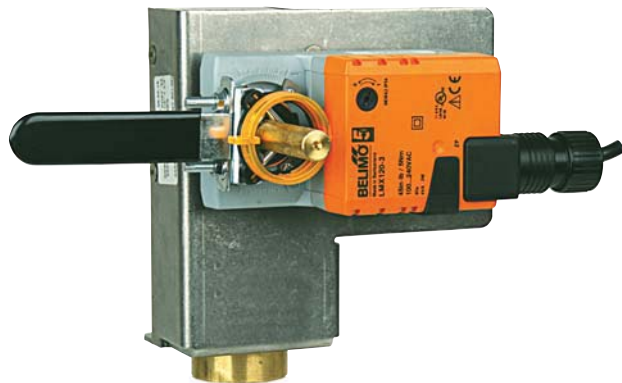


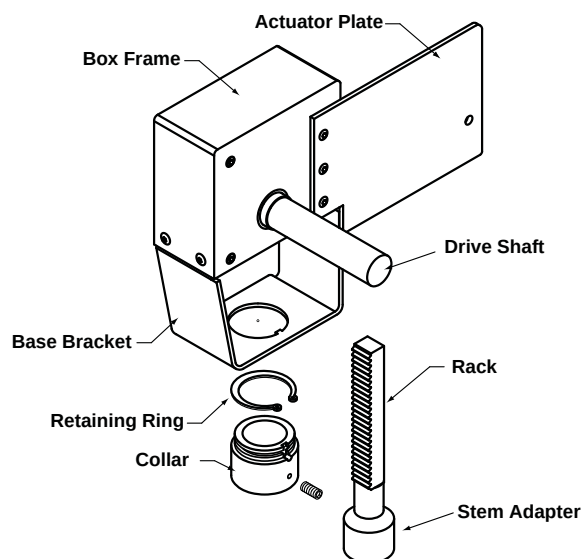
UGLK.../UGSP... Retrofit Linkage for Globe Valves

For LM and LF Series Actuators



Technical Data	UGLK... / UGSP...
Materials:	
Frame, plate, base	stainless steel
Collar	brass
Drive shaft	½" brass
Gears, rack	sintered steel
Bearing	bronze
Stem adaptor	brass
Stroke max (gear teeth)	½" (12 teeth)
Mounting position	360° mountable
Ambient temperature	-22°F to +122°F [-30°C to +50°C]
Storage temperature	-40°F to +176°F [-40°C to +80°C]
Servicing	chilled or hot water max steam inlet 50 psi
Weight	2.8 lbs [1.3 kg]

UGLK / UGSP Parts Breakdown



Application

The UGLK/UGSP retrofit kit is designed to easily attach to the valve bonnet on select competitor valves utilizing Belimo LM and LF series actuators. The kit is used to restore service to the valve without removal of the valve, saving down time.

The unique collar design allows the UGLK to be mounted on various two-way or three-way valves. The rack and pinion construction allow the linkage to be used with normally open and normally closed valves.

Default/Configuration

The actuator is sold separately from the linkage. This allows users to select the actuator with the desired control signal. The linkage utilizes standard air-side actuators that can be purchased at any time and mounted in the field. With the free spring design of the linkage, clearance is not an issue. The linkage can be oriented at any angle on the bonnet.

Operation

The UGLK/UGSP linkage provides approximately ½" of downward stroke with 95° rotation on the actuator. The linkage travel is based on the size of gear inside. The gear size is stamped on the frame. This allows the valve to extend fully open or closed based on signal. When directional needs vary, the actuator can be flipped or the directional switch turned to a new rotation. The compact design allows for installation in tight spaces.

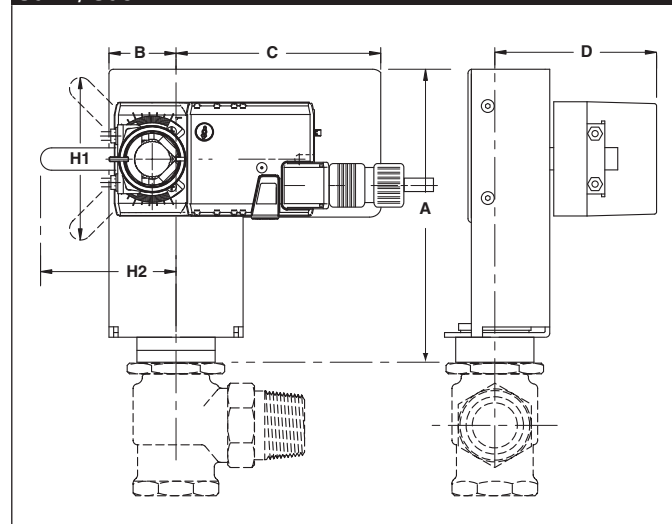
Suitable Actuators	Close-Off Ranges
LM Series	2-250 psi
LF Series	22-250 psi

Competitor Valves**

Honeywell
JCI
Siemens / Powers
Siebe / Invensys / TAC / Schneider

**Consult pages 93-119 of the Retrofit Technical Documentation and/or SelectPro for close-off pressures and a cross reference of each valve.

UGLK / UGSP



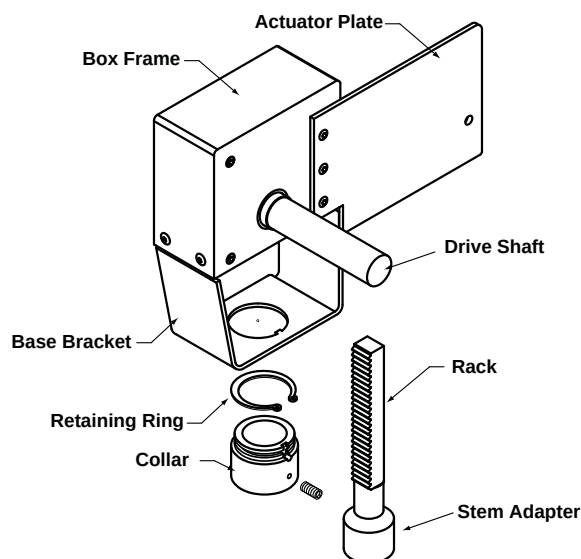
Dimensions (Inches [mm])			
A	6.5" [165]	D	4.0" [102]
B	1.5" [33]	H1	4.0" [102]
C	5.0" [127]	H2	3.5" [89]

Tech.Doc - 07/14 - Subject to change. © Belimo Aircontrols (USA), Inc.



Technical Data	UGLK... / UGSP...
Materials:	
Frame, plate, base	stainless steel
Collar	brass
Drive shaft	3/4" brass
Gears, rack	sintered steel
Bearing	bronze
Stem adaptor	brass
Stroke max (gear teeth)	1/2" (12 teeth) 3/4" (17 teeth) 1-1/8" (25 teeth) 1-1/2" (33 teeth)
Mounting position	360° mountable
Ambient temperature	-22°F to +122°F [-30°C to +50°C]
Storage temperature	-40°F to +176°F [-40°C to +80°C]
Servicing	chilled or hot water, and steam
Weight	5.7 lbs [2.6 kg]

UGLK / UGSP Parts Breakdown



Application

The UGLK/UGSP retrofit kit is designed to easily attach to the valve bonnet on select competitor valves utilizing Belimo GK, AF, NF, GM, AM and NM series actuators. The kit is used to restore service to the valve without removal of the valve, saving down time.

The unique collar design allows the UGLK to be mounted on various two-way or three-way valves. The rack and pinion construction allow the linkage to be used with normally open and normally closed valves.

Default/Configuration

The actuator is sold separately from the linkage. This allows users to select the actuator with the desired control signal. The linkage utilizes standard air-side actuators that can be purchased at any time and mounted in the field. Due to the free spring design of the linkage, clearance is not an issue. The linkage can be oriented at any angle on the bonnet.

Operation

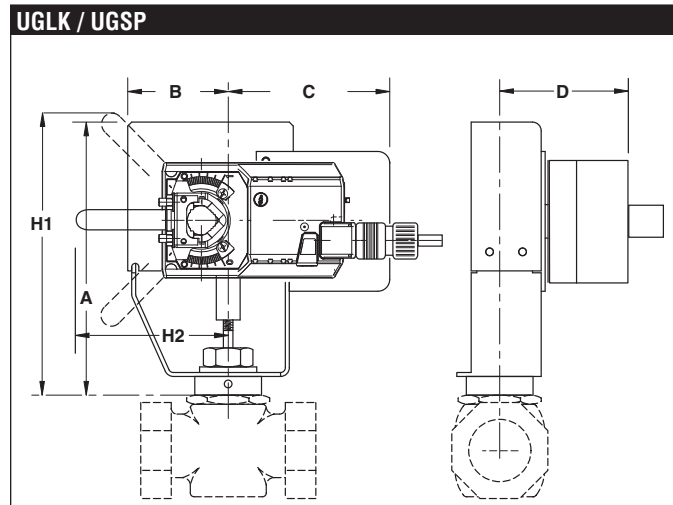
The UGLK/UGSP linkage provides approximately 1/2" to 1-1/2" of downward stroke with 95° rotation on the actuator. The linkage travel is based on the size of gear inside. The gear size is stamped on the frame. This allows the valve to extend fully open or closed based on signal. When directional needs vary, the actuator can be flipped or directional switch turned to a new rotation.

Suitable Actuators	Close-Off Ranges
GK Series	10-250 psi
AF Series	4-250 psi
NF Series	10-250 psi
GM Series	10-250 psi
AM Series	4-250 psi
NM Series	10-250 psi

Competitor Valves**

Honeywell
JCI
Siemens / Powers
Siebe / Invensys / TAC / Schneider
Warren Controls

**Consult pages 93-119 of the Retrofit Technical Documentation and/or SelectPro for close-off pressures and a cross reference of each valve.



Dimensions (Inches [mm])			
A	9"-11" [178-356]	D	4.0" [102]
B	1.5" [33]	H1	4.0" [102]
C	5.0" [127]	H2	3.5" [89]

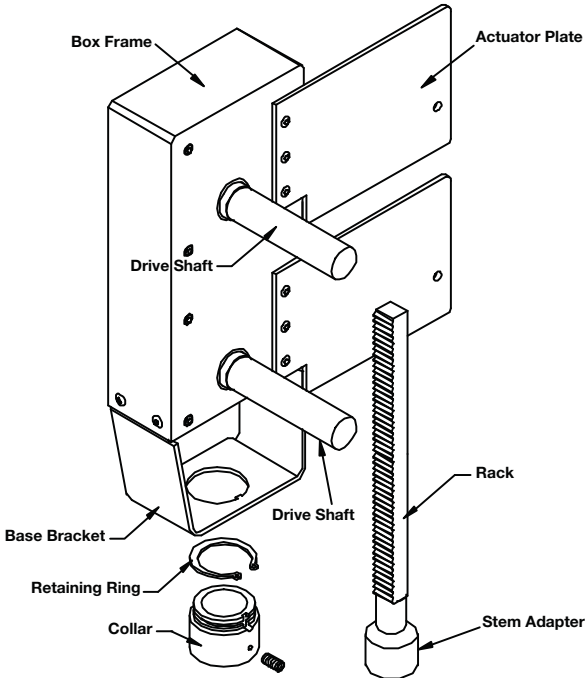
UGLK.../UGSP... Retrofit Linkage for Globe Valves

For Dual Mounted AF, GM, and GK Series Actuators



Technical Data	UGLK... / UGSP...
Materials:	
Frame, plate, base	stainless steel
Collar	brass
Drive shaft	¾" brass
Gears, rack	sintered steel
Bearing	bronze
Stem adaptor	brass
Stroke max (gear teeth)	½" (12 teeth) ¾" (17 teeth) 1-1/8" (25 teeth) 1-½" (33 teeth)
Mounting position	360° mountable
Ambient temperature	-22°F to +122°F [-30°C to +50°C]
Storage temperature	-40°F to +176°F [-40°C to +80°C]
Servicing	chilled or hot water, and steam max steam inlet 50 psi
Weight	10 lbs [4.5 kg]

UGLK / UGSP Parts Breakdown



Application

The UGLK/UGSP retrofit kit is designed to easily attach to the valve bonnet on select competitor valves utilizing tandem Belimo AF, GM, and GK series actuators when higher close-off is required. The kit is used to restore service to the valve without removal of the valve, saving down time.

The unique collar design allows the UGLK to be mounted on various two-way or three-way valves. The rack and pinion construction allow the linkage to be used with normally open and normally closed valves.

Default/Configuration

The actuator is sold separately from the linkage. This allows users to select any actuator with the desired control signal. The linkage utilizes standard air-side actuators that can be purchased at any time and mounted in the field. With the free spring design of the linkage, clearance is not an issue. The linkage can be oriented at any angle on the bonnet.

Operation

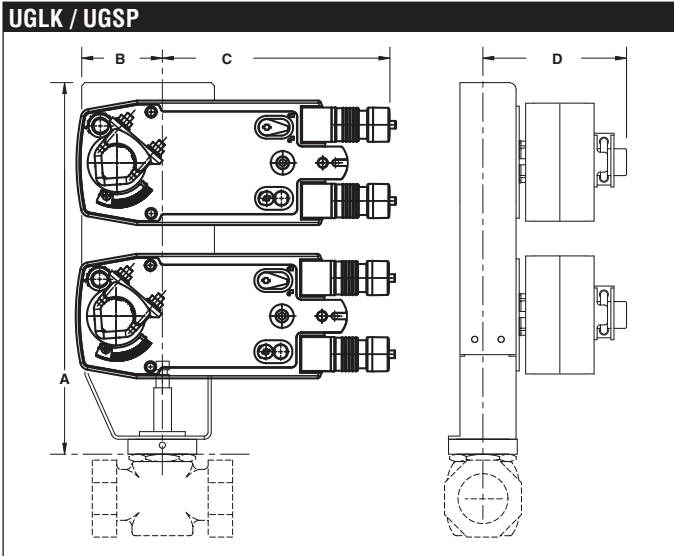
The UGLK/UGSP linkage provides approximately ½" to 1-½" of downward stroke with 95° rotation on the actuator. The linkage travel is based on the size of gear inside. The gear size is stamped on the frame. This allows the valve to extend fully open or closed based on signal. When directional needs vary, the actuators can be flipped or directional switch turned to a new rotation. Refer to Master Slave wiring for dual mounted actuators.

Suitable Actuators	Close-Off Ranges
2*AF Series	10-250 psi
2*GM Series	25-250 psi
2*GK Series	25-250 psi

Competitor Valves**

Honeywell
JCI
Siemens / Powers
Siebe / Invensys / TAC / Schneider
Warren Controls

**Consult pages 92-134 of the Retrofit Technical Documentation and/or SelectPro for close-off pressures and a cross reference of each valve.



Dimensions (Inches [mm])			
A	13"-17" [483]	C	9" [229]
B	3" [76]	D	5" [127]



Technical Data	
Service	chilled or hot water and steam
Applicable valve size	½" [13], ¾" [19], 1" [25], 1-¼" [32], 1-½" [38], 2" [50]
Stem	slotted, threaded
Frame, plate, base	aluminum, steel
Collar	aluminum, steel, (fits bonnets up to 1.7" dia.)
Stem adaptor	aluminum
Stroke	0.75" [20mm]
Mounting position	360°
Media temp range (water)	20°F to 250°F [-7°C to +120°C]
Media temp range (steam)	32°F to 388°F [0°C to 170°C]
Weight	1.9 lbs

Application

The UGVL retrofit kit is designed to easily attach LV and SV series actuators to select globe valves. Its unique adjustable design allows the UGVL to be mounted on ½" to 2" two-way or three-way valves in both normally open and normally closed configurations.

Default/Configuration

The default set up for a UGVL linkage will be factory installed along with a LV or SV series actuator. Included in the kit will be all the necessary hardware to facilitate mounting to the valve.

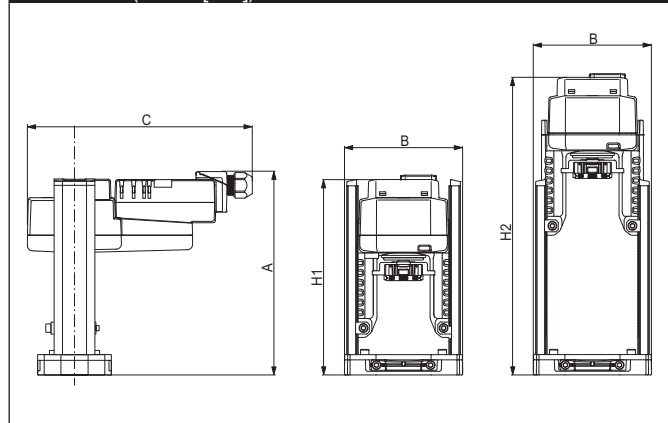
Operation

The UGVL linkage with actuator will provide 20 mm of linear travel to accommodate a wide range of valves.

Suitable Actuators

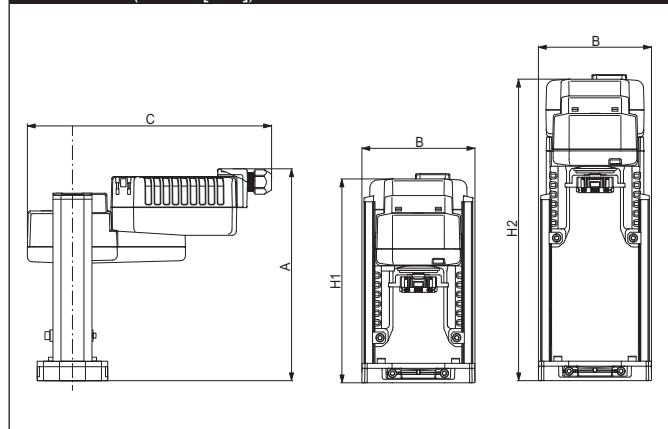
Linkage	Non-Spring Return	Electronic Fail-Safe
UGVL	LV, SV	LVK, SVK

Dimensions (Inches [mm]) with LV and SV Series Actuators



A	B	C	H1	H2
8" [203.2]	4.4" [113]	8.60" [218]	7.5" [190]	11.4" [290]

Dimensions (Inches [mm]) with LVK and SVK Series Actuators



A	B	C	H1	H2
8.5" [217]	4.4" [113]	9.6" [244]	8.4" [207]	12.1" [307]

Application Notes

**Consult pages 93-119 of the Retrofit Technical Documentation and/or SelectPro for close-off pressures and a cross reference of each valve.



Technical Data	
Service	chilled or hot water and steam
Applicable valve size	2½" [64], 3" [80], 4" [101], 5" [127], 6" [152]
Stem	316 stainless steel
Frame, plate, base	aluminum, steel (fits competitor bonnets up to 2.3" dia.)
Collar	aluminum
Coupling	GF nylon, supplied
Housing material	aluminum die cast and plastic casing
Stem adaptor	steel/aluminum
Stroke	1.25" [32 mm] AVK, 2" [50 mm] EV/RV
Mounting position	360°
Media temp range (water)	20°F to 250°F [-7°C to +120°C]
Media temp range (steam)	32°F to 388°F [0°C to 170°C]
Weight	5 lbs

Application

The FGVL retrofit kit is designed to easily attach AVK, EV, and RV series actuators to select flanged globe valves requiring larger stem travels and higher forces. Its casted base and lower locking clamp allow the FGVL to be mounted on 2½" to 6" two-way or three-way valves in both normally open and normally closed configurations.

Default/Configuration

The default set up for a FGVL linkage will be factory installed along with an AVK, EV, or RV series actuator. Included in the kit will be all the necessary hardware to facilitate mounting to the valve.

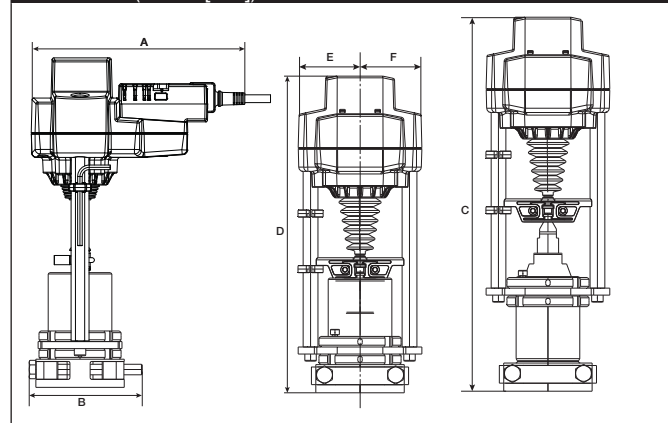
Operation

The FGVL linkage with actuator will provide up to 2" [50 mm] of linear travel to accommodate a wide range of valves.

Suitable Actuators

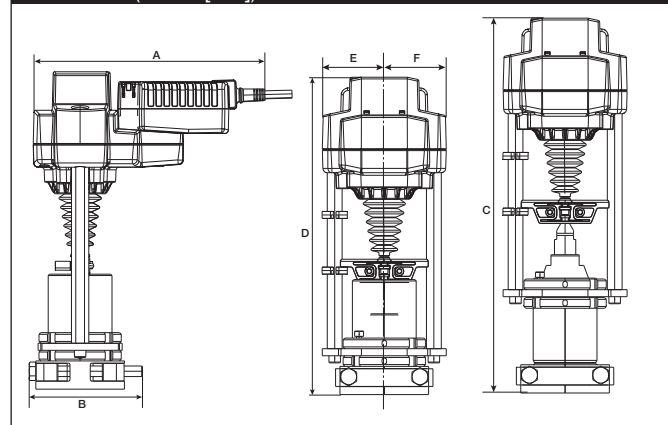
Linkage	Non-Spring Return	Electronic Fail-Safe
FGVL	EVB(X), RVB(X)	AVKB(X)

Dimensions (Inches [mm]) with EV and RV Series Actuators



A	B	C	D	E	F
9.2" [234]	5.00" [127]	16.33" [425]	14.00" [356]	2.78" [71]	

Dimensions (Inches [mm]) with AVK Series Actuators



A	B	C	D	E	F
10.25" [260]	5.00" [127]	16.73" [425]	14.00" [356]	2.78" [71]	

Application Notes

**Consult pages 93-119 of the Retrofit Technical Documentation and/or SelectPro for close-off pressures and a cross reference of each valve.

How to Select a Globe Valve Retrofit Solution

Follow the four steps listed below when ordering a globe valve retrofit kit for either UGLK or GVL series linkages.

Example: Siemens 658 series, 1¼" valve, needing **200 psi** close-off pressure and **Fail-Safe** actuation.

- Based on the **Valve Number, Configuration and Size**, select the proper linkage or linkages for your valve.
Some valves will have more than one linkage offered, use the actuator or combination pages to determine the appropriate linkage for a given application. In this example there is a **UGLK1214**, **UGLK1350** and a **UGVL** series linkage available.
- Use the selection guide and your close-off pressure requirement to select the correct actuator series for your application. Looking at the **UGLK1350** there are no fail-safe actuators that will achieve 200 psi close-off for 1¼" valve. Looking at the **UGLK1214** or **UGVL**, the **AF** or **SVK** Series actuator will provide over **200 psi close-off** for the 1¼" valve.
- Use the actuator listings to make your final actuator selection.
- HOW TO ORDER:

Option One:
 Item 1 1pc UGLK1214
 Item 2 1pc AFB24-MFT

Option Two:
 Item 1 1pc UGVL + SVKX24-MFT



1

Select linkage solution based on the **Valve Number, Configuration, and Size**; select the proper **Linkage Solution** for your valve.

Siemens/Landis\Powers 658 Series Valves Linkage/Actuator Selection Guide

Valve Body Model	Valve Configuration	Size	Fail-safe	Close-Off psi	Belimo Actuator Series	Belimo Linkage
658 Series	2-way	1¼"	No	78	LM	UGLK1350
				156	NM	UGLK1350
				236	SV	UGVL
				250	AM	UGLK1214
			Yes	61	LF	UGLK1350
				156	NF	UGLK1214
				236	SVK	UGVL
				250	AF	UGLK1214

Example: **Siemens Series #658**, **2-Way**, 1¼" valve to be retrofitted.

Choose correct kit **UGLK1214** or **UGVL**.

2

Verify close-off is suitable for application. Looking at the **UGLK** or **UGVL**, the **AF** and **SVK** Series actuator will provide **200 psi close-off** for the 1¼" valve.

BASIC PRODUCTS

Model	Control Input	Feedback	Power Supply	Running Time(s)		VA Rating	Auxiliary Switch
				M	⊙		
AFB24	On/Off	-	24 VAC/DC	<75 seconds	20 secs	7.5	-
AFB24-S	On/Off	-	24 VAC/DC	<75 seconds	20 secs	7.5	Built-In
AFBUP	On/Off	-	24-240 VAC	<75 seconds	20 secs	8.5	-
AFBUP-S	On/Off	-	24-240 VAC	<75 seconds	20 secs	8.5	Built-In
AFB24-SR	2-10 VDC (4-20mA)	2-10 VDC	24 VAC/DC	95 seconds	<20 secs	8.5	-
AFB24-SR-S	2-10 VDC (4-20mA)	2-10 VDC	24 VAC/DC	95 seconds	<20 secs	8.5	Built-In
AFB24-PC	0-10 V Phasecut	2-10 VDC	24 VAC/DC	150 seconds	<20 secs	10	-
AFB24-MFT	2-10 VDC (4-20mA)	2-10 VDC	24 VAC/DC	150 seconds	<20 secs	10	-
AFB24-MFT-S	2-10 VDC (4-20mA)	2-10 VDC	24 VAC/DC	150 seconds	<20 secs	10	Built-In
AFB24-MFT95	0 to 135	2-10 VDC	24 VAC/DC	150 seconds	<20 secs	10	-

3

Select actuator based on needed control type. Decide between **AFB24**, **AFB24-MFT**

or **SVKX24-3**, **SVKX24-MFT**.

4

Complete Ordering Example
Option One:
Item 1: **UGLK1214**
Item 2: **AFB24-MFT**

4

Complete Ordering Example
Option Two:
Item 1: **UGVL + SVKX24-MFT**

ACTUATOR PART #	LVKX24-3	LVKB24-SR	LVKX24-MFT	SVKX24-3	SVKB24-SR	SVKX24-MFT
Control type	On/Off, Floating Point	Proportional	Proportional/MFT	On/Off, Floating Point	Proportional	Proportional/MFT
Input signal / Feedback	-	2-10 VDC	Variable	-	2-10 VDC	Variable
Running time	Motor	150 seconds	Variable	150 seconds	150 seconds	Variable
	Fail-Safe	35 seconds	35 seconds	35 seconds	35 seconds	35 seconds
Actuator travel	24mm	24mm	24mm	24mm	24mm	24mm
Actuator noise level	<45 dB(A)	<45 dB(A)	<45 dB(A)	<45 dB(A)	<45 dB(A)	<45 dB(A)
GVL LINKAGES						
UGVL	Universal Adjustable for 1/2" to 2"	\$	\$	\$	\$	\$
SGVL	Schnieder VB7... VB9...	\$	\$	\$	\$	\$

ROTARY ACTUATORS

SERIES	MODEL	Spring Return	Electronic Fail-Safe	Tandem Mounting Available	Control Input	Feedback Position	Power Supply	Standard Running Time
LF Series*	LF24 US	•			On/Off	-	24 VAC/DC	Consult Specifications
	LF24-MFT US	•			Variable with MFT	Variable VDC	24 VAC/DC	
NF Series*	NFBUP-X1	•			On/Off	-	24-240 VAC	
	NFX24-MFT	•			(24 VAC/DC) Variable with MFT	Variable VDC	24 VAC/DC	
AF Series*	AFBUP-X1	•		•	On/Off	-	24-240 VAC	
	AFX24-MFT-X1	•		•	Variable with MFT	Variable VDC	24 VAC/DC	
LM Series*	LMB24-3-X1				Floating Point, On/Off	-	24 VAC/DC	
	LMX24-MFT-X1				Variable with MFT	Variable VDC	24 VAC/DC	
NM Series*	NMB24-3-X1				Floating Point, On/Off	-	24 VAC/DC	
	NMX24-MFT-X1				Variable with MFT	Variable VDC	24 VAC/DC	
AM Series*	AMB24-3-X1				Floating Point, On/Off	-	24 VAC/DC	
	AMX24-MFT-X1				Variable with MFT	Variable VDC	24 VAC/DC	
GM Series*	GMB24-3-X1			•	Floating Point, On/Off	-	24 VAC/DC	
	GMX24-MFT-X1			•	Variable with MFT	Variable VDC	24 VAC/DC	
GK Series*	GKB24-3-X1		•		Floating Point, On/Off	-	24 VAC/DC	
	GKX24-MFT-X1		•	•	Variable with MFT	Variable VDC	24 VAC/DC	

*Please consult the Damper section of the Product Guide and Price List for a full list of product offerings. Standard run times should be considered in the selection. All air side products are applicable for retrofit kits. Select "X1" actuators come with a handle.

LINEAR ACTUATORS**

SERIES	MODEL	Fail-Safe	Control Input	Feedback Position	Power Supply	Standard Running Time*	Force
LV Series	LVB24-3	No	Floating Pt., On/Off	N/A	24 VAC/DC	90 seconds	112 lbf
	L VX120-3	No	Floating Pt., On/Off	N/A	120-240 VAC	90 seconds	112 lbf
	LVBSR-SR	No	2-10 VDC	2-10 VDC	24 VAC/DC	90 seconds	112 lbf
	L VX24-MFT	No	Variable with MFT	Variable VDC	24 VAC/DC	90 seconds	112 lbf
LVK Series	LVKX24-3	Yes	Floating Pt., On/Off	N/A	24 VAC	90 seconds	112 lbf
	LVKX120-3	Yes	Floating Pt., On/Off	N/A	120-240 VAC	90 seconds	112 lbf
	LVKBSR-SR	Yes	2-10 VDC	2-10 VDC	24 VAC/DC	90 seconds	112 lbf
	LVKX24-MFT	Yes	Variable with MFT	Variable VDC	24 VAC/DC	90 seconds	112 lbf
SV Series	SVX24-3	No	Floating Pt., On/Off	N/A	24 VAC/DC	90 seconds	337 lbf
	SVX120-3	No	Floating Pt., On/Off	N/A	120-240 VAC	90 seconds	337 lbf
	SVBSR-SR	No	2-10 VDC	2-10 VDC	24 VAC/DC	90 seconds	337 lbf
	SVX24-MFT	No	Variable with MFT	Variable VDC	24 VAC/DC	90 seconds	337 lbf
SVK Series	SVKX24-3	Yes	Floating Pt., On/Off	N/A	24 VAC	90 seconds	337 lbf
	SVKX120-3	Yes	Floating Pt., On/Off	N/A	120-240 VAC	90 seconds	337 lbf
	SVKBSR-SR	Yes	2-10 VDC	2-10 VDC	24 VAC/DC	90 seconds	337 lbf
	SVKX24-MFT	Yes	Variable with MFT	Variable VDC	24 VAC/DC	90 seconds	337 lbf
AV Series	AVKB24-3	Yes	Floating Pt., On/Off	N/A	24 VAC	90 seconds	450 lbf
	AVKB120-3	Yes	Floating Pt., On/Off	N/A	120-240 VAC	90 seconds	450 lbf
	AVKB24-MFT	Yes	Variable with MFT	Variable VDC	24 VAC/DC	90 seconds	450 lbf
EV Series	EV B24-3	No	Floating Pt., On/Off	N/A	24 VAC/DC	90 seconds	562 lbf
	EV B120-3	No	Floating Pt., On/Off	N/A	120-240 VAC	90 seconds	562 lbf
	EV B24-MFT	No	Variable with MFT	Variable VDC	24 VAC/DC	90 seconds	562 lbf
RV Series	RV B24-3	No	Floating Pt., On/Off	N/A	24 VAC/DC	90 seconds	562 lbf
	RV B24-MFT	No	Variable with MFT	Variable VDC	24 VAC/DC	90 seconds	562 lbf

* Other speeds available on request. ** Sold as an assembly with linkage.

MULTI-FUNCTION TECHNOLOGY

PROGRAMMING CODE			Control Input	Running Time	Built-in Feedback
ROTARY ACTUATOR	P-10001	A01	2-10 VDC	150 seconds	2-10 VDC
	P-10002	A02	0.5-10 VDC	150 seconds	0.5-10 VDC
	P-10028	A28	0.5-10 VDC	150 seconds	0.5-10 VDC
	P-10063	A63	0.5-4.5 VDC	150 seconds	0.5-4.5 VDC
	P-10064	A64	5.5-10 VDC	150 seconds	5.5-10 VDC
	P-20002	W02	0.02-5.00 seconds PWM	150 seconds	2-10 VDC
	P-20003	W03	0.10-25.5 seconds PWM	150 seconds	2-10 VDC
	P-30001	F01	Floating Point	150 seconds	2-10 VDC
LINEAR ACTUATOR	P-40002	J02	On/Off	150 seconds	2-10 VDC
	G43		2-10 VDC	90 seconds	2-10 VDC
	G53		0.5-10 VDC	90 seconds	0.5-10 VDC
	W3M		0.02-5.00 seconds PWM	90 seconds	2-10 VDC
	G13		Floating Point	90 seconds	2-10 VDC
	G03		On/Off	90 seconds	2-10 VDC

800-543-9038 USA

866-805-7089 CANADA

203-791-8396 LATIN AMERICA/CARIBBEAN



Honeywell

VP52..., VP531, VGF Series Valves

Linkage/Actuator Selection Guide

Johnson Controls

V52... Series Valves

Linkage/Actuator Selection Guide

Valve Body Model	Size	Fail-Safe	Close-Off psi	Belimo Actuator Series	Belimo Linkage	
VP526 Series	½"	Yes	50	TF	UGLK1808	
	5/8"	No	58	CM	UGLK1808	
		Yes		TF	UGLK1808	
VP527 Series	½"	No	45	CM	UGLK1808	
		Yes		TF	UGLK1808	
VP531 Series	½"	No	70	CM	UGLK1808	
		Yes		TF	UGLK1808	
	¾"	No	70	CM	UGLK1808	
		Yes		TF	UGLK1808	
	5/8"	No	70	CM	UGLK1808	
		Yes		TF	UGLK1808	
	7/8"	No	70	CM	UGLK1808	
		Yes		TF	UGLK1808	
VGF2.. Series	2½"	Yes	52	AVK	FGVL	
		No		EV	FGVL	
	3"	Yes	40	AVK	FGVL	
		No		EV	FGVL	
	4"	Yes	22	AVK	FGVL	
		No		EV	FGVL	
	5"	Yes	14	AVK	FGVL	
		No		RV	FGVL	
	6"	Yes	10	AVK	FGVL	
		No		RV	FGVL	
	VGF3.. Series	2½"	Yes	52	AVK	FGVL
			No		EV	FGVL
3"		Yes	40	AVK	FGVL	
		No		EV	FGVL	
4"		Yes	22	AVK	FGVL	
		No		EV	FGVL	
5"		Yes	14	AVK	FGVL	
		No		RV	FGVL	
6"		Yes	10	AVK	FGVL	
		No		RV	FGVL	
JOHNSON CONTROLS						
V-5252-(12, 13, 35)	3"	Yes	52	2*AF	UGLK1476	
		Yes		AVK	FGVL	
		No		EV	FGVL	
		Yes	26	AF	UGLK1410	
		Yes		2*GK	UGLK1476	
		No		RV	FGVL	
V-5252-(14, 36)	4"	Yes	14	AF	UGLK1410	
		Yes		2*GK	UGLK1476	
		No		RV	FGVL	
		Yes	26	2*AF	UGLK1476	
		Yes		AVK	FGVL	
		No		EV	FGVL	
V-5252-17	5"	Yes	10	AF	UGLK1414	
		Yes		2*AF	UGLK1480	
		No		EV	FGVL	
		Yes	14	GK	UGLK1414	
		Yes		2*GK	UGLK1480	
		No		RV	FGVL	
V-5252-18	5"	Yes	10	AF	UGLK1414	
		Yes		2*AF	UGLK1480	
		No		EV	FGVL	
		Yes	14	GK	UGLK1414	
		Yes		2*GK	UGLK1480	
		No		RV	FGVL	
V-5252-19	6"	Yes	10	2*AF	UGLK1480	
		No		EV	FGVL	
		Yes		GK	UGLK1414	
		Yes	22	2*GK	UGLK1480	
		No		RV	FGVL	
		No		RV	FGVL	

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All close-off pressures listed are approximate and based on valve condition and application.

800-543-9038 USA

866-805-7089 CANADA

203-791-8396 LATIN AMERICA/CARIBBEAN

Johnson Controls

V-52..., V-54... Series Valves

Linkage/Actuator Selection Guide



Valve Body Model	Size	Fail-Safe	Close-Off psi	Belimo Actuator Series	Belimo Linkage
V-5252-38	5"	Yes	10	AF	UGLK1414
		Yes	14	2*AF	UGLK1480
		No		EV	FGVL
		Yes	22	GK	UGLK1414
		Yes		2*GK	UGLK1480
V-5252-39	6"	No	10	RV	FGVL
		Yes		2*AF	UGLK1480
		No		EV	FGVL
		Yes	22	GK	UGLK1414
		Yes		2*GK	UGLK1480
V-5462-11	4"	No	14	RV	FGVL
		Yes		AF	UGLK1410
		Yes		2*GK	UGLK1476
		No	52	RV	FGVL
		Yes		2*AF	UGLK1476
V-5462-12	4"	Yes	26	AVK	FGVL
		No		EV	FGVL
		Yes		AF	UGLK1410
		Yes	52	2*GK	UGLK1476
		No		RV	FGVL
V-5462-15	5"	Yes	10	2*AF	UGLK1476
		Yes		AVK	FGVL
		No		EV	FGVL
		Yes	14	AF	UGLK1414
		Yes		2*AF	UGLK1480
V-5462-16	5"	No	22	EV	FGVL
		Yes		GK	UGLK1414
		Yes		2*GK	UGLK1480
		No	10	RV	FGVL
		Yes		2*AF	UGLK1480
V-5462-17	6"	Yes	14	EV	FGVL
		No		GK	UGLK1414
		Yes		2*GK	UGLK1480
		No	22	RV	FGVL
		Yes		2*AF	UGLK1480
V-5462-18	6"	No	10	EV	FGVL
		Yes		GK	UGLK1414
		Yes		2*GK	UGLK1480
		No	22	RV	FGVL
		Yes		2*AF	UGLK1480
V-5462-35	3"	Yes	52	RV	FGVL
		Yes		AVK	FGVL
		No		EV	FGVL
		Yes	26	AF	UGLK1410
		Yes		2*GK	UGLK1476
V-5462-37	4"	No	93	RV	FGVL
		Yes		RV	FGVL
		Yes		AF	UGLK1410
		No	52	2*GK	UGLK1476
		Yes		RV	FGVL
V-5462-39	5"	Yes	26	2*AF	UGLK1476
		Yes		AVK	FGVL
		No		EV	FGVL
		Yes	10	AF	UGLK1414
		Yes		2*AF	UGLK1480
V-5462-39	5"	No	14	EV	FGVL
		Yes		GK	UGLK1414
		Yes		2*GK	UGLK1480
		No	22	RV	FGVL
		Yes		2*AF	UGLK1480

All close-off pressures listed are approximate and based on valve condition and application.

800-543-9038 USA

866-805-7089 CANADA

203-791-8396 LATIN AMERICA/CARIBBEAN



Valve Body Model	Size	Fail-Safe	Close-Off psi	Belimo Actuator Series	Belimo Linkage
V-5462-40	6"	Yes	10	2*AF	UGLK1480
		No		EV	FGVL
		Yes	22	GK	UGLK1414
		Yes		2*GK	UGLK1480
		No		RV	FGVL
V-5462-8	3"	Yes	52	2*AF	UGLK1476
		Yes		AVK	FGVL
		No	26	EV	FGVL
		Yes		AF	UGLK1410
		Yes		2*GK	UGLK1476
		No		RV	FGVL
V-5462-9	3"	Yes	52	2*AF	UGLK1476
		Yes		AVK	FGVL
		No	26	EV	FGVL
		Yes		AF	UGLK1410
		Yes		2*GK	UGLK1476
		No		RV	FGVL
V-5842-10	3"	Yes	52	2*AF	UGLK1476
		Yes		AVK	FGVL
		No	26	EV	FGVL
		Yes		AF	UGLK1410
		Yes		2*GK	UGLK1476
		No		RV	FGVL
V-5842-13	5"	Yes	10	AF	UGLK1414
		Yes	14	2*AF	UGLK1480
		No		EV	FGVL
V-5842-13	5"	Yes	14	GK	UGLK1414
		Yes	22	2*GK	UGLK1480
		No		RV	FGVL
V-5842-14	5"	Yes	10	AF	UGLK1414
		Yes	14	2*AF	UGLK1480
		No		EV	FGVL
		Yes	22	GK	UGLK1414
		Yes		2*GK	UGLK1480
		No		RV	FGVL
V-5842-15	6"	Yes	10	2*AF	UGLK1480
		No		EV	FGVL
		Yes	22	GK	UGLK1414
		Yes		2*GK	UGLK1480
		No		RV	FGVL
V-5842-16	6"	Yes	10	2*AF	UGLK1480
		No		EV	FGVL
		Yes	22	GK	UGLK1414
		Yes		2*GK	UGLK1480
		No		RV	FGVL
V-5842-32	3"	Yes	52	2*AF	UGLK1476
		Yes		AVK	FGVL
		No	26	EV	FGVL
		Yes		AF	UGLK1410
		Yes		2*GK	UGLK1476
		No		RV	FGVL
V-5842-35	5"	Yes	10	AF	UGLK1414
		Yes	14	2*AF	UGLK1480
		No		EV	FGVL
		Yes	22	GK	UGLK1414
		Yes		2*GK	UGLK1480
		No		RV	FGVL
V-5842-36	6"	Yes	10	2*AF	UGLK1480
		No		EV	FGVL
		Yes	22	GK	UGLK1414
		Yes		2*GK	UGLK1480
		No		RV	FGVL

Johnson Controls

V-58..., VB-37..., VB-39..., VB-43... Series Valves

Linkage/Actuator Selection Guide



Valve Body Model	Size	Fail-Safe	Close-Off psi	Belimo Actuator Series	Belimo Linkage
V-5842-9	3"	Yes	52	2*AF	UGLK1476
		Yes		AVK	FGVL
		No		EV	FGVL
		Yes	26	AF	UGLK1410
		Yes	93	2*GK	UGLK1476
		No		RV	FGVL
VB-3752-22	3"	Yes	60	AVK	FGVL
		No	70	EV	FGVL
		Yes	52	2*AF	UGLK1476
		Yes	26	AF	UGLK1410
		Yes	93	2*GK	UGLK1476
		No		RV	FGVL
VB-3752-25	4"	Yes	14	AF	UGLK1410
		Yes	30	AVK	FGVL
		No	40	EV	FGVL
		Yes	52	2*GK	UGLK1476
		No		RV	FGVL
		Yes	26	2*AF	UGLK1476
VB-3752-28	5"	Yes	10	AF	UGLK1414
		Yes	14	2*AF	UGLK1480
		No		EV	FGVL
		Yes		GK	UGLK1414
		Yes	22	2*GK	UGLK1480
		No		RV	FGVL
VB-3752-31	6"	Yes	10	2*AF	UGLK1480
		No		EV	FGVL
		Yes		GK	UGLK1414
		Yes	22	2*GK	UGLK1480
		No		RV	FGVL
		Yes		2*AF	UGLK1476
VB-3970-14	3"	Yes	52	AVK	FGVL
		No		EV	FGVL
		Yes		AF	UGLK1410
		Yes	26	2*GK	UGLK1476
		No	93	RV	FGVL
		Yes		2*AF	UGLK1476
VB-3970-17	4"	Yes	14	AF	UGLK1410
		Yes	52	2*GK	UGLK1476
		No		RV	FGVL
		Yes	26	2*AF	UGLK1476
		Yes		AVK	FGVL
		No		EV	FGVL
VB-3970-20	5"	Yes	10	AF	UGLK1414
		Yes	14	2*AF	UGLK1480
		No		EV	FGVL
		Yes		GK	UGLK1414
		Yes	22	2*GK	UGLK1480
		No		RV	FGVL
VB-3970-23	6"	Yes	10	2*AF	UGLK1480
		No		EV	FGVL
		Yes		GK	UGLK1414
		Yes	22	2*GK	UGLK1480
		No		RV	FGVL
		Yes		2*AF	UGLK1476
VB-4322-11	3"	Yes	52	AVK	FGVL
		No		EV	FGVL
		Yes		AF	UGLK1410
		Yes	93	2*GK	UGLK1476
		No		RV	FGVL
		Yes		2*AF	UGLK1476
VB-4322-13	4"	Yes	14	AF	UGLK1410
		Yes	52	2*GK	UGLK1476
		No		RV	FGVL
		Yes	26	2*AF	UGLK1476
		Yes		AVK	FGVL
		No		EV	FGVL

All close-off pressures listed are approximate and based on valve condition and application.

800-543-9038 USA

866-805-7089 CANADA

203-791-8396 LATIN AMERICA/CARIBBEAN



Valve Body Model	Size	Fail-Safe	Close-Off psi	Belimo Actuator Series	Belimo Linkage
VB-4322-18	6"	Yes	10	2*AF	UGLK1480
		No		EV	FGVL
		Yes	22	GK	UGLK1414
		Yes		2*GK	UGLK1480
		No		RV	FGVL
VB-4322-19	5"	Yes	10	AF	UGLK1414
		Yes	14	2*AF	UGLK1480
		No		EV	FGVL
		Yes	22	GK	UGLK1414
		Yes		2*GK	UGLK1480
VG2231 UM	3"	No	52	RV	FGVL
		Yes		AVK	FGVL
		No	93	EV	FGVL
VG2231 VM	4"	No	52	RV	FGVL
		Yes		AVK	FGVL
		No	26	EV	FGVL
VG2231 WN	5"	No	14	EV	FGVL
		No	22	RV	FGVL
VG2231 YN	6"	No	10	EV	FGVL
		No	22	RV	FGVL
VG2431 UM	3"	Yes	52	AVK	FGVL
		No		EV	FGVL
		No	93	RV	FGVL
VG2431 VM	4"	No	52	RV	FGVL
		Yes		AVK	FGVL
		No	26	EV	FGVL
VG2431 WN	5"	No	14	EV	FGVL
		No	22	RV	FGVL
VG2431 YN	6"	No	10	EV	FGVL
		No	22	RV	FGVL
VG2831 UM	3"	Yes	52	AVK	FGVL
		No		EV	FGVL
		No	93	RV	FGVL
VG2831 VM	4"	No	52	RV	FGVL
		Yes		AVK	FGVL
		No	26	EV	FGVL
VG2831 WN	5"	No	14	EV	FGVL
		No	22	RV	FGVL
VG2831 YN	6"	No	10	EV	FGVL
		No	22	RV	FGVL
VG2231 UM	3"	Yes	52	2*AF	UGLK1476
		Yes	26	AF	UGLK1410
		Yes	93	2*GK	UGLK1476
VG2431 UM	3"	Yes	52	2*AF	UGLK1476
		Yes	26	AF	UGLK1410
		Yes	93	2*GK	UGLK1476
VG2831 UM	3"	Yes	52	2*AF	UGLK1476
		Yes	26	AF	UGLK1410
		Yes	93	2*GK	UGLK1476
VG2231 VM	4"	Yes	14	AF	UGLK1410
		Yes	52	2*GK	UGLK1476
		Yes	26	2*AF	UGLK1476
VG2431 VM	4"	Yes	14	AF	UGLK1410
		Yes	52	2*GK	UGLK1476
		Yes	26	2*AF	UGLK1476
VG2831 VM	4"	Yes	14	AF	UGLK1410
		Yes	52	2*GK	UGLK1476
		Yes	26	2*AF	UGLK1476
VG2231 WN	5"	Yes	10	AF	UGLK1414
		Yes	14	2*AF	UGLK1480
		Yes		GK	UGLK1414
		Yes	22	2*GK	UGLK1480

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All close-off pressures listed are approximate and based on valve condition and application.

Johnson Controls

VG24, VG22, VG28, V52, V54 Series Valves

Linkage/Actuator Selection Guide



Valve Body Model	Size	Fail-Safe	Close-Off psi	Belimo Actuator Series	Belimo Linkage
VG2431 WN	5"	Yes	10	AF	UGLK1414
		Yes	14	2*AF	UGLK1480
		Yes		GK	UGLK1414
		Yes	22	2*GK	UGLK1480
VG2831 WN	5"	Yes	10	AF	UGLK1414
		Yes	14	2*AF	UGLK1480
		Yes		GK	UGLK1414
		Yes	22	2*GK	UGLK1480
VG2231 YN	6"	Yes	10	2*AF	UGLK1480
		Yes		GK	UGLK1414
		Yes	22	2*GK	UGLK1480
		Yes		2*AF	UGLK1480
VG2431 YN	6"	Yes	10	2*AF	UGLK1480
		Yes		GK	UGLK1414
		Yes	22	2*GK	UGLK1480
		Yes		2*AF	UGLK1480
VG2831 YN	6"	Yes	10	2*AF	UGLK1480
		Yes		GK	UGLK1414
		Yes	22	2*GK	UGLK1480
		Yes		2*AF	UGLK1480
V-5210-4595	2½"	Yes	38	AF	UGLK1412
		Yes	136	2*GK	UGLK1478
		No		RV	FGVL
		Yes	75	2*AF	UGLK1478
		Yes		AVK	FGVL
		No		RV	FGVL
V-5210-4596	3"	Yes	52	2*AF	UGLK1478
		Yes		AVK	FGVL
		No		EV	FGVL
		Yes	26	AF	UGLK1412
		Yes	93	2*GK	UGLK1478
		No		RV	FGVL
V-5210-4597	4"	Yes	14	AF	UGLK1412
		Yes	52	2*GK	UGLK1478
		No		RV	FGVL
		Yes	26	2*AF	UGLK1478
		Yes		AVK	FGVL
		Yes		2*GK	UGLK1478
V-5210-4597	4"	No	26	EV	FGVL
V-5252-(15, 16, 37)	4"	Yes	14	AF	UGLK1412
		Yes	52	2*GK	UGLK1478
		No		RV	FGVL
		Yes	26	2*AF	UGLK1478
		Yes		AVK	FGVL
		No		EV	FGVL
V-5252-(2, 4, 5, 6, 7, 8, 32, 33)	2½"	Yes	52	AF	UGLK1404
		No		EV	FGVL
		Yes	110	AVK	FGVL
		No		RV	FGVL
V-5252-(4, 5, 6, 7, 8, 32, 33)	2½"	Yes	110	2*AF	UGLK1472
		Yes	211	2*GK	UGLK1472
V-5252-(9, 10, 11, 34)	3"	Yes	52	AVK	FGVL
		No		EV	FGVL
		Yes	77	2*AF	UGLK1472
		Yes	38	AF	UGLK1404
		Yes	136	2*GK	UGLK1472
		No	93	RV	FGVL
V-5410-4595	2½"	Yes	38	AF	UGLK1412
		Yes	136	2*GK	UGLK1478
		No		RV	FGVL
		Yes	75	2*AF	UGLK1478
		Yes		AVK	FGVL
		No		RV	FGVL
V-5410-4596	3"	Yes	52	2*AF	UGLK1478
		Yes		AVK	FGVL
		No		EV	FGVL
		Yes	26	AF	UGLK1412
		Yes		2*GK	UGLK1478
		No		RV	FGVL

All close-off pressures listed are approximate and based on valve condition and application.

800-543-9038 USA

866-805-7089 CANADA

203-791-8396 LATIN AMERICA/CARIBBEAN



Valve Body Model	Size	Fail-Safe	Close-Off psi	Belimo Actuator Series	Belimo Linkage
V-5410-4597	4"	Yes	14	AF	UGLK1412
		Yes	52	2*GK	UGLK1478
		No		RV	FGVL
		Yes	26	2*AF	UGLK1478
		Yes		AVK	FGVL
V-5462-(6, 7, 34)	2½"	No		EV	FGVL
		Yes	52	AF	UGLK1404
		No		EV	FGVL
		Yes	110	2*AF	UGLK1472
		Yes		AVK	FGVL
		No		RV	FGVL
		Yes	211	2*GK	UGLK1472
V-5462-10	3"	No		RV	FGVL
		Yes	52	2*AF	UGLK1478
		Yes		AVK	FGVL
		No		EV	FGVL
		Yes	26	AF	UGLK1412
V-5462-13	4"	Yes	93	2*GK	UGLK1478
		Yes		RV	FGVL
		No			
		Yes	14	AF	UGLK1412
		Yes	52	2*GK	UGLK1478
V-5462-14	4"	No		RV	FGVL
		Yes	26	2*AF	UGLK1478
		Yes		AVK	FGVL
		No		EV	FGVL
		Yes	52	2*GK	UGLK1478
V-5462-36	3"	No		RV	FGVL
		Yes	26	2*AF	UGLK1478
		Yes		AVK	FGVL
		No		EV	FGVL
V-5462-36	3"	Yes	52	AF	UGLK1412
		Yes	93	2*GK	UGLK1478
		No		RV	FGVL
		Yes			
V-5462-38	4"	Yes	14	AF	UGLK1412
		Yes	52	2*GK	UGLK1478
		No		RV	FGVL
		Yes	26	2*AF	UGLK1478
		Yes		AVK	FGVL
		No		EV	FGVL
V-5842-(7, 8, 31)	2½"	Yes	52	AF	UGLK1404
		No		EV	FGVL
		Yes	110	2*AF	UGLK1472
		Yes		AVK	FGVL
		No		RV	FGVL
		Yes	211	2*GK	UGLK1472
		No		RV	FGVL
V-5842-11	4"	Yes	14	AF	UGLK1412
		Yes	52	2*GK	UGLK1478
		No		RV	FGVL
		Yes	26	2*AF	UGLK1478
		Yes		AVK	FGVL
		No		EV	FGVL
V-5842-12	4"	Yes	14	AF	UGLK1412
		Yes	52	2*GK	UGLK1478
		No		RV	FGVL
		Yes	26	2*AF	UGLK1478
		Yes		AVK	FGVL
		No		EV	FGVL

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All close-off pressures listed are approximate and based on valve condition and application.

Johnson Controls

V-58, VB-39, VB-43, VG22, VG24, VG28 Series Valves

Linkage/Actuator Selection Guide



Valve Body Model	Size	Fail-Safe	Close-Off psi	Belimo Actuator Series	Belimo Linkage
V-5842-17	3"	Yes	52	2*AF	UGLK1478
		Yes		AVK	FGVL
		No		EV	FGVL
		Yes	26	AF	UGLK1412
		Yes	93	2*GK	UGLK1478
		No		RV	FGVL
V-5842-18	3"	Yes	52	2*AF	UGLK1478
		Yes		AVK	FGVL
		No		EV	FGVL
		Yes	26	AF	UGLK1412
		Yes	93	2*GK	UGLK1478
		No		RV	FGVL
V-5842-33	3"	Yes	52	2*AF	UGLK1478
		Yes		AVK	FGVL
		No		EV	FGVL
		Yes	26	AF	UGLK1412
		Yes	93	2*GK	UGLK1478
		No		RV	FGVL
V-5842-34	4"	Yes	14	AF	UGLK1412
		Yes	52	2*GK	UGLK1478
		No		RV	FGVL
		Yes	26	2*AF	UGLK1478
		Yes		AVK	FGVL
		No		EV	FGVL
VB-3752-19	2½"	Yes	52	AF	UGLK1404
		Yes	120	AVK	FGVL
		Yes	110	2*AF	UGLK1472
		Yes	211	2*GK	UGLK1472
		No	75	EV	FGVL
		No	200	RV	FGVL
VB-3970-11	2½"	Yes	52	AF	UGLK1404
		No		EV	FGVL
		Yes	110	2*AF	UGLK1472
		Yes		AVK	FGVL
		No		RV	FGVL
		Yes	211	2*GK	UGLK1472
VB-4322-9	2½"	Yes	52	AF	UGLK1404
		No		EV	FGVL
		Yes	110	2*AF	UGLK1472
VB-4322-9	2½"	Yes	110	AVK	FGVL
		No		RV	FGVL
		Yes	211	2*GK	UGLK1472
VG2231 TM	2½"	Yes	110	AVK	FGVL
		No		EV	FGVL
		No	211	RV	FGVL
VG2231 UN	3"	Yes	52	AVK	FGVL
		No		EV	FGVL
		No	93	RV	FGVL
VG2231 VN	4"	No	52	RV	FGVL
		Yes	26	AVK	FGVL
		No		EV	FGVL
VG2431 TM	2½"	Yes	110	AVK	FGVL
		No		EV	FGVL
		No	211	RV	FGVL
VG2431 UN	3"	Yes	52	AVK	FGVL
		No		EV	FGVL
		No	93	RV	FGVL
VG2431 VN	4"	No	52	RV	FGVL
		Yes	26	AVK	FGVL
		No		EV	FGVL
VG2831 TM	2½"	Yes	110	AVK	FGVL
		No		EV	FGVL
		No	211	RV	FGVL
VG2831 UN	3"	Yes	52	AVK	FGVL
		No		EV	FGVL
		No	93	RV	FGVL

All close-off pressures listed are approximate and based on valve condition and application.

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203-791-8396 LATIN AMERICA/CARIBBEAN



Valve Body Model	Size	Fail-Safe	Close-Off psi	Belimo Actuator Series	Belimo Linkage
VG2831 VN	4"	No	52	RV	FGVL
		Yes	26	AVK	FGVL
		No		EV	FGVL
VG2231 TM	2½"	Yes	52	AF	UGLK1404
		Yes	110	2*AF	UGLK1472
		Yes	211	2*GK	UGLK1472
VG2431 TM	2½"	Yes	52	AF	UGLK1404
		Yes	110	2*AF	UGLK1472
		Yes	211	2*GK	UGLK1472
VG2831 TM	2½"	Yes	52	AF	UGLK1404
		Yes	110	2*AF	UGLK1472
		Yes	211	2*GK	UGLK1472
VG2231 UN	3"	Yes	52	2*AF	UGLK1478
		Yes	26	AF	UGLK1412
		Yes	93	2*GK	UGLK1478
VG2431 UN	3"	Yes	52	2*AF	UGLK1478
		Yes	26	AF	UGLK1412
		Yes	93	2*GK	UGLK1478
VG2831 UN	3"	Yes	52	2*AF	UGLK1478
		Yes	26	AF	UGLK1412
		Yes	93	2*GK	UGLK1478
VG2231 VN	4"	Yes	14	AF	UGLK1412
		Yes	52	2*GK	UGLK1478
		Yes	26	2*AF	UGLK1478
VG2431 VN	4"	Yes	14	AF	UGLK1412
		Yes	52	2*GK	UGLK1478
		Yes	26	2*AF	UGLK1478
VG2831 VN	4"	Yes	14	AF	UGLK1412
		Yes	52	2*GK	UGLK1478
		Yes	26	2*AF	UGLK1478
V(B)-3754 Series, Bronze Trim	¾"	Yes	211	LVK	UGVL
		No		LV	UGVL
	1"	Yes	93	LVK	UGVL
		No		LV	UGVL
		No	236	SV	UGVL
		Yes		SVK	UGVL
	1¼"	No	236	SV	UGVL
		Yes		SVK	UGVL
	1½"	No	160	SV	UGVL
V(B)-3754 Series, Bronze Trim	1½"	Yes	160	SVK	UGVL
	2"	No	85	SV	UGVL
		Yes		SVK	UGVL
V(B)-3974 Series, Bronze Trim	¾"	Yes	211	LVK	UGVL
		No		LV	UGVL
	1"	Yes	93	LVK	UGVL
		No		LV	UGVL
		No	236	SV	UGVL
		Yes		SVK	UGVL
	1¼"	No	236	SV	UGVL
		Yes		SVK	UGVL
	1½"	No	160	SV	UGVL
		Yes		SVK	UGVL
	2"	No	85	SV	UGVL
		Yes		SVK	UGVL
V(B)-4324 Series, Bronze Trim	¾"	Yes	211	LVK	UGVL
		No		LV	UGVL
	1"	Yes	93	LVK	UGVL
		No		LV	UGVL
		No	236	SV	UGVL
		Yes		SVK	UGVL
	1¼"	No	236	SV	UGVL
		Yes		SVK	UGVL
	1½"	No	160	SV	UGVL
		Yes		SVK	UGVL
	2"	No	85	SV	UGVL
		Yes		SVK	UGVL

All close-off pressures listed are approximate and based on valve condition and application.

Johnson Controls

VB-58..., V-43, VG70, V-37, V-38, V-39 Series Valves

Linkage/Actuator Selection Guide



Valve Body Model	Size	Fail-Safe	Close-Off psi	Belimo Actuator Series	Belimo Linkage
V(B)-5844 Series	¾"	Yes	211	LVK	UGVL
		No		LV	UGVL
	1"	Yes	93	LVK	UGVL
		No		LV	UGVL
		Yes	236	SV	UGVL
				SVK	UGVL
	1¼"	No	236	SV	UGVL
		Yes		SVK	UGVL
	1½"	No	160	SV	UGVL
		Yes		SVK	UGVL
	2"	No	85	SV	UGVL
		Yes		SVK	UGVL
V-4332	¾"	Yes	211	LVK	UGVL
		No		LV	UGVL
	1"	Yes	93	LVK	UGVL
		No		LV	UGVL
		Yes	236	SV	UGVL
				SVK	UGVL
	1¼"	No	236	SV	UGVL
		Yes		SVK	UGVL
	1½"	No	160	SV	UGVL
		Yes		SVK	UGVL
	2"	No	85	SV	UGVL
		Yes		SVK	UGVL
VG7000 Series	½"	Yes	236	LVK	UGVL
		No		LV	UGVL
	¾"	Yes	211	LVK	UGVL
		No		LV	UGVL
	1"	Yes	93	LVK	UGVL
		No		LV	UGVL
		Yes	236	SV	UGVL
				SVK	UGVL
	1¼"	No	236	SV	UGVL
		Yes		SVK	UGVL
	1½"	No	160	SV	UGVL
		Yes		SVK	UGVL
	2"	No	85	SV	UGVL
		Yes		SVK	UGVL
V-3754-(4, 1008, 1022, 1026)	¾"	Yes	211	LF	UGLK1550
V-3754-(5, 1010, 1023, 1027)	1"	Yes	236	AF	UGLK1402
		Yes	173	NF	UGLK1402
V-3754-(6, 1028, 1029, 1030)	1½"	Yes	77	NF	UGLK1402
		Yes	153	AF	UGLK1402
		Yes	211	2*AF	UGLK1478
		Yes	236	GK	UGLK1402
		Yes	236	GK	UGLK1402
V-3754-7	2"	Yes	40	NF	UGLK1406
		Yes	236	2*GK	UGLK1474
		No		2*GM	UGLK1474
		Yes	86	AF	UGLK1406
		Yes	173	2*AF	UGLK1474
		Yes		GK	UGLK1406
		No		GM	UGLK1406
V-3754-8	1¼"	Yes	110	NF	UGLK1402
		Yes	221	AF	UGLK1402
V-3766	½"	Yes	236	LF	UGLK1552
		No		LM	UGLK1552
V-3854-5	½"	Yes	236	LF	UGLK1554
		No		LM	UGLK1554
V-3966	½"	Yes	236	LF	UGLK1552
		No		LM	UGLK1552
V-3974-(4, 1004, 1010)	¾"	Yes	211	LF	UGLK1550
V-3974-(5, 1005, 1011)	1"	Yes	236	AF	UGLK1402
		Yes	173	NF	UGLK1402

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Valve Body Model	Size	Fail-Safe	Close-Off psi	Belimo Actuator Series	Belimo Linkage
V-3974-(6, 1012, 1013)	1½"	Yes	77	NF	UGLK1402
		Yes	153	AF	UGLK1402
		Yes	211	2*AF	UGLK1478
		Yes	236	GK	UGLK1402
V-3974-7	2"	Yes	40	NF	UGLK1406
		Yes	236	2*GK	UGLK1474
		No		2*GM	UGLK1474
		Yes	86	AF	UGLK1406
		Yes	173	2*AF	UGLK1474
		Yes		GK	UGLK1406
		No		GM	UGLK1406
V-4324-(4, 1005, 1006, 1013)	¾"	Yes	211	LF	UGLK1550
V-4324-(5, 1007, 1008, 1014)	1"	Yes	236	AF	UGLK1402
		Yes	173	NF	UGLK1402
V-4324-(6,1015, 1016, 1017)	1½"	Yes	77	NF	UGLK1402
		Yes	153	AF	UGLK1402
V-4324-(6,1015, 1016, 1017)	1½"	Yes	211	2*AF	UGLK1478
		Yes	236	GK	UGLK1402
		Yes	40	NF	UGLK1406
V-4324-7	2"	Yes	236	2*GK	UGLK1474
		No		2*GM	UGLK1474
		Yes	86	AF	UGLK1406
		Yes	173	2*AF	UGLK1474
		Yes		GK	UGLK1406
		No		GM	UGLK1406
V-4324-8	1¼"	Yes	110	NF	UGLK1402
		Yes	221	AF	UGLK1402
V-4332	½"	Yes	236	LVK	UGVL
		No		LV	UGVL
V-5254-(1, 2, 3, 11)	1½"	Yes	77	NF	UGLK1404
		Yes	153	AF	UGLK1404
		No		AM	UGLK1404
		Yes	236	2*AF	UGLK1472
		Yes		GK	UGLK1404
		No		GM	UGLK1404
V-5254-(4, 5, 6, 12)	2"	Yes	40	NF	UGLK1406
		Yes	236	2*GK	UGLK1474
		No		2*GM	UGLK1474
		Yes	86	AF	UGLK1406
		No		AM	UGLK1406
		Yes	173	2*AF	UGLK1474
		Yes		GK	UGLK1406
		No		GM	UGLK1406
V-5464-(1, 2, 11)	1½"	Yes	77	NF	UGLK1404
		Yes	153	AF	UGLK1404
		No		AM	UGLK1404
		Yes	236	2*AF	UGLK1472
		Yes		GK	UGLK1404
		No		GM	UGLK1404
V-5464-(3, 4, 12)	2"	Yes	40	NF	UGLK1406
		Yes	236	2*GK	UGLK1474
		No		2*GM	UGLK1474
		Yes	86	AF	UGLK1406
		No		AM	UGLK1406
		Yes	173	2*AF	UGLK1474
		Yes		GK	UGLK1406
		No		GM	UGLK1406
V-5844-(1, 2, 3, 11)	1½"	Yes	77	NF	UGLK1404
		Yes	153	AF	UGLK1404
		Yes	236	2*AF	UGLK1472
		No		2*GM	UGLK1472
		Yes		GK	UGLK1404
		Yes			

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All close-off pressures listed are approximate and based on valve condition and application.

Johnson Controls

V-58, VG-7..., VTM Series Valves
Linkage/Actuator Selection Guide

Robertshaw

V6700, V6800, V6600 Series Valves
Linkage/Actuator Selection Guide

Siebe\Invensys\Barber Colman

VB7000 Series Valves
Linkage/Actuator Selection Guide



Valve Body Model	Size	Fail-Safe	Close-Off psi	Belimo Actuator Series	Belimo Linkage
V-5844-(4, 5, 6, 12)	2"	Yes	40	NF	UGLK1406
		Yes	236	2" GK	UGLK1474
		No		2" GM	UGLK1474
		Yes	86	AF	UGLK1406
		Yes	173	2" AF	UGLK1474
		No		GK	UGLK1406
VG7XXX-(C, E, GT) *Threaded Stem Only	½"	Yes	236	LF	UGLK1416
VG7XXX-LT *Threaded Stem Only	¾"	Yes	169	LF	UGLK1416
VG7XXX-NT *Threaded Stem Only	1"	Yes	93	LF	UGLK1418
VG7XXX-PT *Threaded Stem Only	1¼"	Yes	65	LF	UGLK1418
VG7XXX-RT *Threaded Stem Only	1½"	Yes	26	LF	UGLK1420
		Yes	77	NF	UGLK1422
		Yes	236	GK	UGLK1422
		No		GM	UGLK1422
VG7XXX-ST *Threaded Stem Only	2"	Yes	14	LF	UGLK1420
		Yes	40	NF	UGLK1422
		Yes	153	AF	UGLK1422
		Yes	86	AF	UGLK1422
		Yes	173	GK	UGLK1422
		No		GM	UGLK1422
VTM-TN-(007, 019, 047) *Threaded Stem Only	½"	Yes	236	LF	UGLK1550
		No		LM	UGLK1550
ROBERTSHAW					
V6700	½"	Yes	236	LVK	UGVL
		No		LV	UGVL
	1"	Yes	93	LVK	UGVL
		No		LV	UGVL
		No	236	SV	UGVL
		Yes		SVK	UGVL
	1¼"	No	236	SV	UGVL
		Yes		SVK	UGVL
	1½"	Yes	160	SVK	UGVL
	2"	No	85	SV	UGVL
		Yes		SVK	UGVL
V6700, V6800	¾"	Yes	211	LVK	UGVL
		No		LV	UGVL
V6600	½"	Yes	236	LVK	UGVL
		No		LV	UGVL
	¾"	Yes	211	LVK	UGVL
		No		LV	UGVL
		Yes	93	LVK	UGVL
	1"	No		LV	UGVL
		No	236	SV	UGVL
		Yes		SVK	UGVL
	1¼"	No	236	SV	UGVL
		Yes		SVK	UGVL
	1½"	No	160	SV	UGVL
		Yes		SVK	UGVL
	2"	No	85	SV	UGVL
		Yes		SVK	UGVL
V6700	1½"	No	160	SV	UGVL
SIEBE \ INVENSYS \ BARBER COLMAN					
VB7000 series	½"	Yes	236	LVK	SGVL
		No		LV	SGVL
	¾"	Yes	211	LVK	SGVL
		No		LV	SGVL
	1"	Yes	93	LVK	SGVL
		No		SV	SGVL
		No	236	SV	SGVL
	1¼"	Yes		SVK	SGVL
		No	236	SV	SGVL
		Yes		SVK	SGVL
	1½"	No	160	SV	SGVL
		Yes		SVK	SGVL

All close-off pressures listed are approximate and based on valve condition and application.

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UGLK Retrofit Solution

Components



UGLK Collars

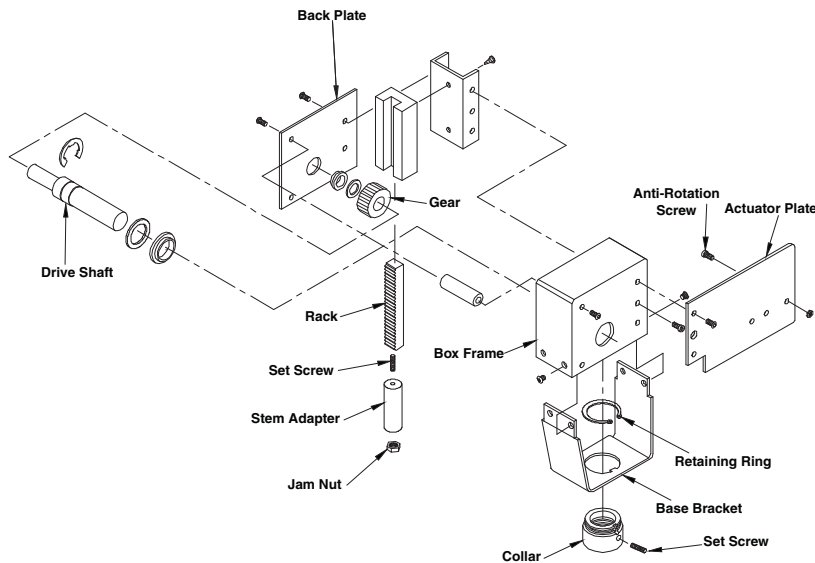
Part Number	Inside Diameter	Description	Most Commonly Used Valve Style				
			Style 1	Style 2	Style 3	Style 4	Style 5
UGLK-COL-1005	1.000"	3 setscrews, for frame type		•			
UGLK-COL-1063	1.063"	3 setscrews, for frame type		•			
UGLK-COL-1100	1.100"	3 setscrews, for frame type, counterbored top				•	
UGLK-COL-1255	1.250"	3 setscrews, for frame type		•			
UGLK-COL-1315	1.315"	3 setscrews, for frame type, can be used with VB7 with shim			•		
UGLK-COL-1375	1.375"	3 setscrews, for frame type		•			
UGLK-COL-BC10	1.250" - 16 Thd.	Fits Siebe VB7/VB9. Use on frame type only	•				
UGLK-COL-HY02	1.370"	1 setscrew, for frame type					•
UGLK-COL-LG02	1.740"	1 setscrew, for frame type			•		
UGLK-COL-LG04	1.740"	1 setscrew, for frame type			•		
UGLK-COL-JC05	1.070"	3 setscrews, for frame type		•			
UGLK-COL-JC06	1.562" - 14 Thd.	Threaded, brass		•			
UGLK-COL-JC08	0.760"	3 setscrews, for frame type, counterbored top				•	
UGLK-COL-JC15	1.070"	Ring, no setscrews		•			
UGLK-COL-0880	0.880"	3 setscrews, for frame type, counterbored top				•	
UGLK-COL-WNUT	1.375" - 20 Thd.	Replacement Warren nut. Will not go over damaged threads		•			
UGLK-COL-AD01	1.250" - 16 Thd.	Fits Siebe VB7/VB9. For VB7 frame only	•				
UGLK-COL-UNIV	Custom	3 setscrews, for frame type. Must be machined		•	•	•	•

* Must reuse clip and set screws.

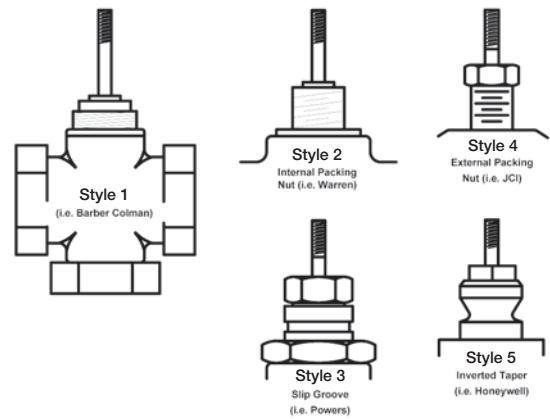
UGLK Stem Adapters

Part Number	Inside Diameter	Description	Most Commonly Used Valve Style				
			Style 1	Style 2	Style 3	Style 4	Style 5
UGLK-STM-1800	¼" - 28 Stem Thd.	Stem adapter for ¼" - 28 valve stems	•	•	•	•	•
UGLK-STM-1801	3/8" - 24 Stem Thd.	Stem adapter for 3/8" - 24 valve stems	•	•	•	•	•
UGLK-STM-1802	½" - 20 Stem Thd.	Stem adapter for ½" - 20 valve stems	•			•	•
UGLK-STM-1803	7/16" - 20 Stem Thd.	Stem adapter for 7/16" - 20 valve stems					•
UGLK-STM-1501	3/8" - 24 Stem Thd.	For Warren FLG valves with UGLK		•			
UGLK-STM-1805	3/8" OD Grooved	Landis 2.5-3" -599 Series			•		
UGLK-STM-2305	½" OD Grooved	Landis 4-6" -599 Series			•		
UGLK-STM-UNIV	Custom	Must be machined	•	•	•	•	•

UGLK Stem Adapters



UGLK Collars



		NON-SPRING RETURN				SPRING RETURN			ELECTRONIC FAIL-SAFE				2*
WEATHER SHIELDS		LV	SV	EV	RV	LF	NF	AF	GK	LVK	SVK	AVK	GM/GK
	ZS-SPGV-60 LF series on G2/G3 globe valve					•							
	ZS-SPGV-10 Dual AF series on flanged globe valve							•					
	ZS-SPGV-20 Single NF/AF series on G2/G3 (NF/AF) and flanged globe valve (AF)						•	•					
	ZS-SPGV-40 GK series on flanged globe valve								•				
	ZS-SPGV-50 GK series on flanged globe valve												•
	ZS-GV-001 Weather shield for LV/SV (cover only)	•	•							•	•		
	ZS-GV-002 Weather shield for EV/RV/AVK (cover only)			•	•							•	
AUXILIARY SWITCHES & POTENTIOMETERS													
	S1A Auxiliary switch - 1x SPDT, 3A (0.5A inductive) @ 250 VAC								•				•
	S2A Auxiliary switch - 2x SPDT, 3A (0.5A inductive) @ 250 VAC								•				•
	S2A-GV Auxiliary switch - 2x SPDT, 3A (0.5A inductive) @ 250 VAC	•	•	•	•					•	•	•	
	P140A GR Feedback potentiometer 140 Ω								•				•
	P500A GR Feedback potentiometer 500 Ω								•				•
	P1000A GR Feedback potentiometer 1000 Ω								•				•
	P2800A GR Feedback potentiometer 2800 Ω								•				•
	P5000A GR Feedback potentiometer 5000 Ω								•				•
	P10000A GR Feedback potentiometer 10000 Ω								•				•
BATTERY BACKUPS													
	NSV24 US Battery backup module	•	•	•	•								
	NSV-BAT 12VDC 1.2 AH battery (2 required)	•	•	•	•								

Note: Each NSV-24 US requires 2 NSV-BAT.