

OpenAir™

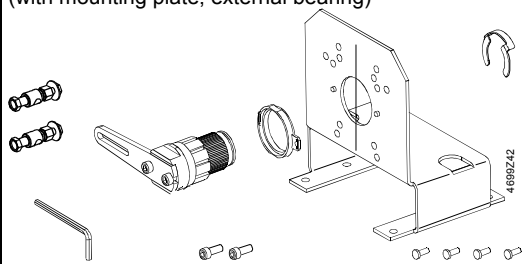
Accessories and Spare Parts  
for Air Damper Actuators

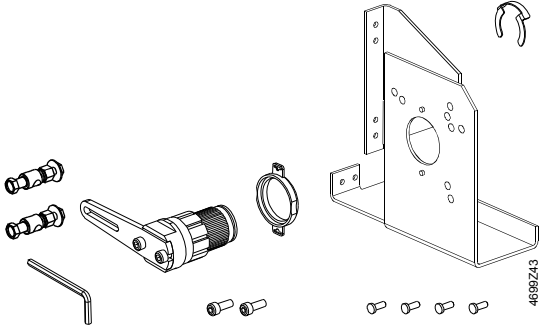
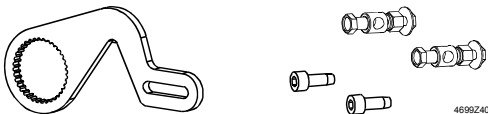
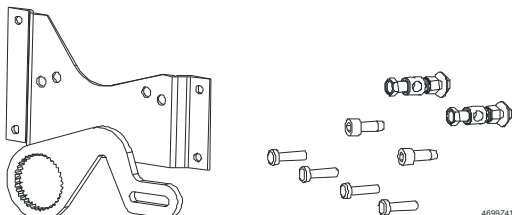
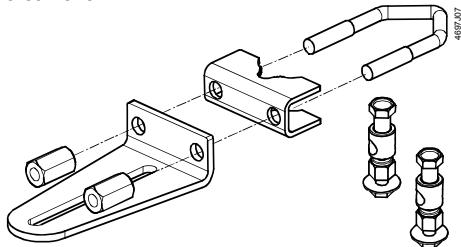
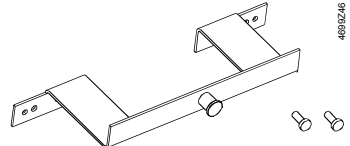
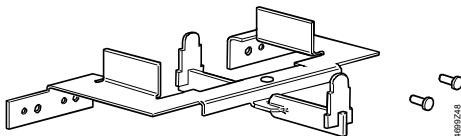
ASC...  
ASK...

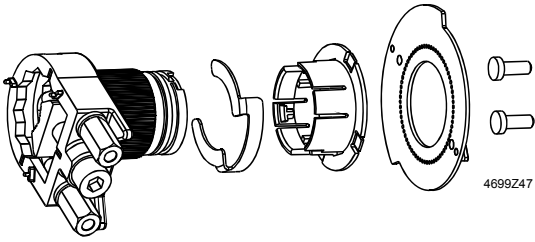
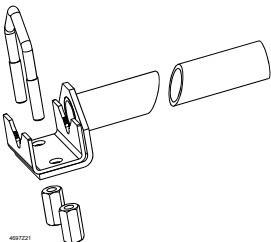
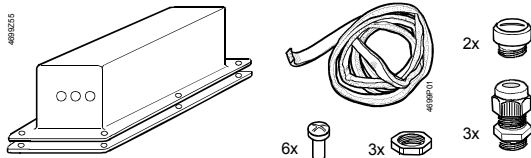
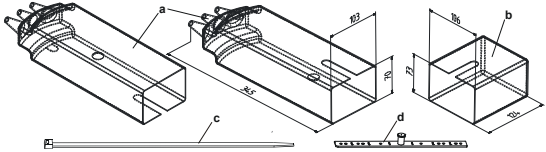
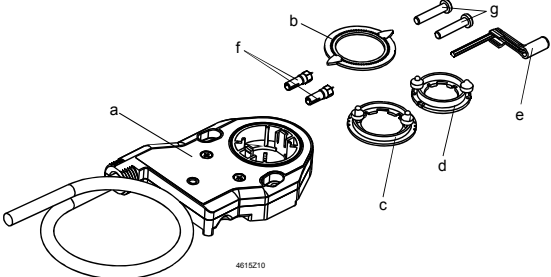
Overview, functions and applications for GCA, GBB and GIB

This overview provides a list of the accessories to functionally enhance the GCA, GBB, and GIB air damper actuators as well as a list of the spare parts for the actuators.  
Application examples and important dimensions are contained in the respective mounting installations (see document no.).

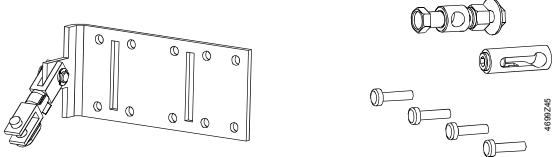
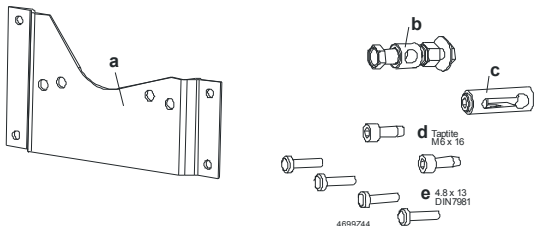
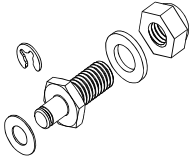
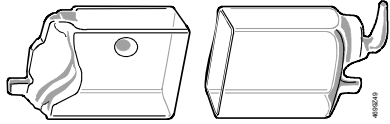
Accessories for rotary actuators

Type document no. (classification no.)	Designation / scope of delivery	Use	
		For actuator type	Function
ASK71.1  431926590 (M4626.1)	Rotary/linear set for duct mounting (with mounting plate, external bearing) 	GCA...1 GBB...1 GIB...1	<ul style="list-style-type: none"><li>• To convert rotary to linear movement for duct mounting</li><li>• Ball joints for push rod 8 mm dia.</li><li>• Not suited for GIB actuators<ul style="list-style-type: none"><li>– If the end stop is provided by the air damper</li></ul></li></ul>

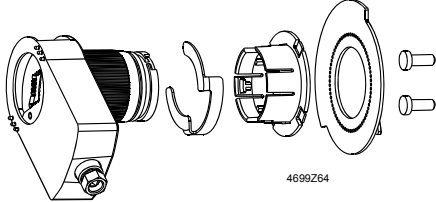
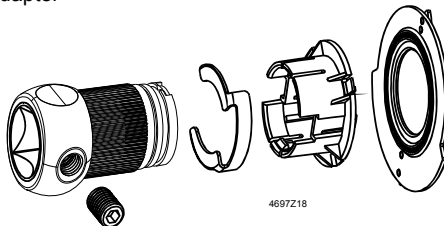
Type document no. (classification no.)	Designation / scope of delivery	Use	
		For actuator type	Function
<b>ASK71.2</b>  431927080 (M4626.2)	Rotary/linear set for frame mounting (with mounting plate, external bearing)  	GCA...1 GBB...1 GIB...1	<ul style="list-style-type: none"> <li>To convert rotary to linear movement for frame (wall) mounting</li> <li>Ball joints for push rod 8 mm dia.</li> <li>Not suited for GIB actuators <ul style="list-style-type: none"> <li>If the end stop is provided by the air damper</li> </ul> </li> </ul>
<b>ASK71.3</b>  431927250 (M4626.3)	Rotary/linear set with lever  		<ul style="list-style-type: none"> <li>To convert rotary to linear movement. Suited for <ul style="list-style-type: none"> <li>direct duct or wall mounting of the actuator via rear mounting</li> <li>Damper mounting for actuator with additional rotary/linear function</li> </ul> </li> <li>Ball joints for push rod 8 mm dia.</li> </ul>
<b>ASK71.4</b>  431928460 (M4626.4)	Rotary/linear set with lever and mounting plate  		<ul style="list-style-type: none"> <li>To convert rotary to linear movement</li> <li>Mounting the actuator on the mounting plate allows for actuator-side duct or frame mounting</li> <li>Ball joints for push rod 8 mm dia.</li> </ul>
<b>ASK71.9</b>  7431902360 (M4614.1)	Universal lever  	GCA... GBB... GIB...	<ul style="list-style-type: none"> <li>To convert linear to rotary movement, for mounting on an adjacent damper shaft</li> <li>Can be used in connection with ASK71.1 to ASK71.4</li> <li>Ball joints for push rod 8 mm dia.</li> </ul>
<b>ASK73.1</b>  431928490 (M4613.1)	Bracket for powerpack  	GCA12..1 GCA32..1 GCA13..1 GIB13..1 GIB33..1	<ul style="list-style-type: none"> <li>As locking element for two rotary actuators on the same shaft (tandem mounted)</li> <li>Powerpack is permitted only with two- or three-position control actuators providing</li> </ul>
<b>ASK73.2</b>  431929500 (M4613.2)	Self-aligning bracket for powerpack  	GCA16..1 GIB16..1	<ul style="list-style-type: none"> <li>Serves as a self-aligning bracket with two rotary actuators on the same shaft (tandem mounted)</li> <li>This self-aligning bracket has been designed only for actuators with modulating control</li> <li>Not suited for GIB actuators <ul style="list-style-type: none"> <li>If the end stop is provided by the air damper</li> </ul> </li> </ul>


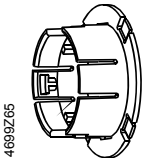
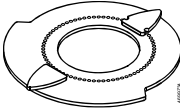

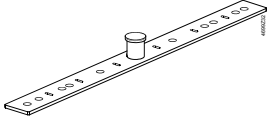

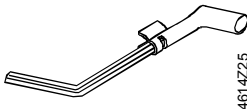
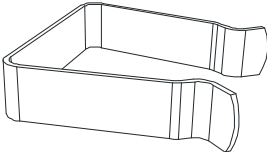
Type document no. (classification no.)	Designation / scope of delivery	Use	
		For actuator type	Function
<b>ASK74.1</b>       471814060	Special shaft adapter  	GCA...1 GBB...1 GIB...1	This shaft adapter <ul style="list-style-type: none"> <li>allows for centered mounting</li> <li>is suitable for shafts of 15...26.5 mm dia.</li> <li>stays for all mounting positions within the side profile of the actuator</li> <li>exceeds the actuator length less than the standard shaft adapter</li> <li>is not suited for GIB actuators               <ul style="list-style-type: none"> <li>if the end stop is provided by the air damper</li> </ul> </li> </ul>
<b>ASK74.7</b>       	Shaft extension  		<ul style="list-style-type: none"> <li>For extending the drive shaft by up to approx. 240 mm.</li> <li>For drive shafts of 8...25.6 mm dia. or 6...18 mm square</li> <li>Minimum shaft length 40 mm</li> <li>Can not be used in connection with ASK73.1 or ASK73.2</li> </ul>
<b>ASK75.1</b>   431929460 (M4626.11)	Weather shield for rotary actuator  		<ul style="list-style-type: none"> <li>Provides additional protection of the rotary actuator against dust and splash-water in the case of outdoor use.</li> <li>UV-resistant</li> </ul>
<b>ASK75.4</b>   7431906410 (M4626.12)	Weather shield for rotary actuator  		<ul style="list-style-type: none"> <li>Provides additional protection to rotary actuator and when mounting in any given position</li> </ul>
<b>ASC77.1E</b> <b>ASC77.2E</b>      7431904130 (M4615)	External auxiliary switches  		<ul style="list-style-type: none"> <li>ASC77.1E (1 switch)</li> <li>ASC77.2E (2 switches)</li> </ul>

## Accessories for linear actuators

Type document no. (classification no.)	Designation / scope of delivery	Use	
		For actuator type	Function
<b>ASK72.1</b>  431927240 (M4656.1)	Linear/rotary set (with cardan joint)  	GBB...2	<ul style="list-style-type: none"> <li>To convert linear to rotary movement</li> <li>Mounting the actuator together with the linear set allows for cardanic suspension, can be swiveled on two levels</li> <li>Linear limitation by adjusting the clamp on the push rod</li> <li>Ball joints for push rod 8 mm dia.</li> </ul>
<b>ASK72.2</b>  431928480 (M4656.2)	Linear/rotary set with mounting plate  		<ul style="list-style-type: none"> <li>To convert linear into rotary movement</li> <li>Mounting the actuator on the mounting plate allows for actuator-side frame or duct mounting</li> <li>Linear limitation by adjusting the clamp on the push rod</li> <li>Ball joints for push rod 8 mm dia.</li> </ul>
<b>ASK72.4</b>  431926860 (M4656)	Fixing screw with accessories  		<ul style="list-style-type: none"> <li>To fit the actuator to the damper</li> <li>To convert linear to rotary movement on the damper</li> </ul>
<b>ASK75.2</b>  431929470 (M4656.3)	Weather shield for linear actuator  	GBB161.2 GBB163.2 GBB131.2 GBB331.2	<ul style="list-style-type: none"> <li>Provides additional protection to linear actuator and when mounting in any given position</li> <li>Only for actuator types with <b>one</b> cable</li> </ul>

## Spare parts for rotary actuators

Spare part-number	Designation / delivery	Application	
		For actuator type	Function
471814020	Standard shaft adapter  	GCA...1 GBB...1 GIB...1	<p>This shaft adapter is</p> <ul style="list-style-type: none"> <li>self-centering</li> <li>suited for shafts of 8...25.6 mm dia.</li> </ul>
7471800270	Shaft adapter  		15 mm square
7471800280			12 mm square
7471800290			10 mm square
7471800300			8 mm square

Spare part-number	Designation / delivery	Application	
		For actuator type	Function
416513210	Axial bracket 	GCA...1 GBB...1 GIB...1	Axial bracket to secure the shaft adapter in the actuator.
448427450	Plastic adapter for position indicator 		The plastic adapter is need for short air damper shafts (< 20 mm). It is inserted into the shaft adapter and carries the position indicator.
430413480	Position indicator 		The position indicator is clamped on the shaft adapter or the plastic adapter and serves to indicate the rotational angle of the air damper.
7428400410	Plug indicator 		Plug indicator is used to fix position indicator (430413480) on to plastic adapter (448427450).
419065990	Mounting bracket 		The mounting bracket is used to prevent the actuator from twisting and is secured with 2 steel screws (4.8 x 13 mm, DIN 7981).
418023780	Screw tapite M6 x 16 mm 		Self-tapping screw to fasten the actuator on the mounting, duct or wall plate.
410921110	Turnkey for manual adjustment 	GCA...1	Manual adjustment for the shaft adapter.
421711320	Fork clamp 	GCA...1 GBB...1 GIB...1	The fork clamp is used to prevent the actuator from twisting.