

Pneumatic or Servo Gripper... which one is right for you?

FLEXIBILITY

	PNEUMATIC	SERVO
Am I handling different sized parts?	<ul style="list-style-type: none"> typically small finger travel different sized parts may require multiple grippers 	<ul style="list-style-type: none"> finger travel adjustable within large range
Do I need more than one force?	<ul style="list-style-type: none"> multiple grip forces require add-ons 	<ul style="list-style-type: none"> programmable to allow multiple grip forces
Do I need different grip speeds?	<ul style="list-style-type: none"> more than one speed requires add-ons 	<ul style="list-style-type: none"> a single movement can have multiple grip speeds
What are my future gripping needs?	<ul style="list-style-type: none"> for dedicated process 	<ul style="list-style-type: none"> for adaptable processes



CONTROL

	PNEUMATIC	SERVO
How do I control positioning?	<ul style="list-style-type: none"> unable to control position without add-ons 	<ul style="list-style-type: none"> multiple stop positions can be programmed
How do I control force and grip speed?	<p>FORCE</p> <p>PNEUMATIC</p> <ul style="list-style-type: none"> controls force with pressure regulator <p>SERVO</p> <ul style="list-style-type: none"> controls force through programming 	<p>FORCE</p> <p>SERVO GRIPPER</p> <ul style="list-style-type: none"> independent control of speed and force <p>PNEUMATIC GRIPPER</p> <ul style="list-style-type: none"> applied pressure dictates both speed and force
	<p>SPEED</p> <p>PNEUMATIC</p> <ul style="list-style-type: none"> controls grip speed through flow control <p>SERVO</p> <ul style="list-style-type: none"> controls speed and multiple accelerations and decelerations through programming 	
Do I need position feedback?	<ul style="list-style-type: none"> not without add-ons 	<ul style="list-style-type: none"> inherent in the design
Do I need to be able to confirm an object is being gripped?	<ul style="list-style-type: none"> not without add-ons 	<ul style="list-style-type: none"> inherent in the design by using position and/or force feedback

ENVIRONMENTAL/OTHER

	PNEUMATIC	SERVO
What are my weight constraints?	<ul style="list-style-type: none"> grippers are lighter 	<ul style="list-style-type: none"> grippers are heavier
Can I use compressed air or is it available in my process?	<ul style="list-style-type: none"> requires air 	<ul style="list-style-type: none"> doesn't require air
What is my temperature environment?	<ul style="list-style-type: none"> some grippers are able to operate in hot or cold temperatures 	<ul style="list-style-type: none"> some grippers are able to operate in hot or cold temperatures
Can it operate in a sterile environment?	<ul style="list-style-type: none"> some grippers are able to operate in a clean room 	<ul style="list-style-type: none"> some grippers are able to operate in a clean room
Reliability	<ul style="list-style-type: none"> mechanically simple 	<ul style="list-style-type: none"> a more complex combination of electromechanics

