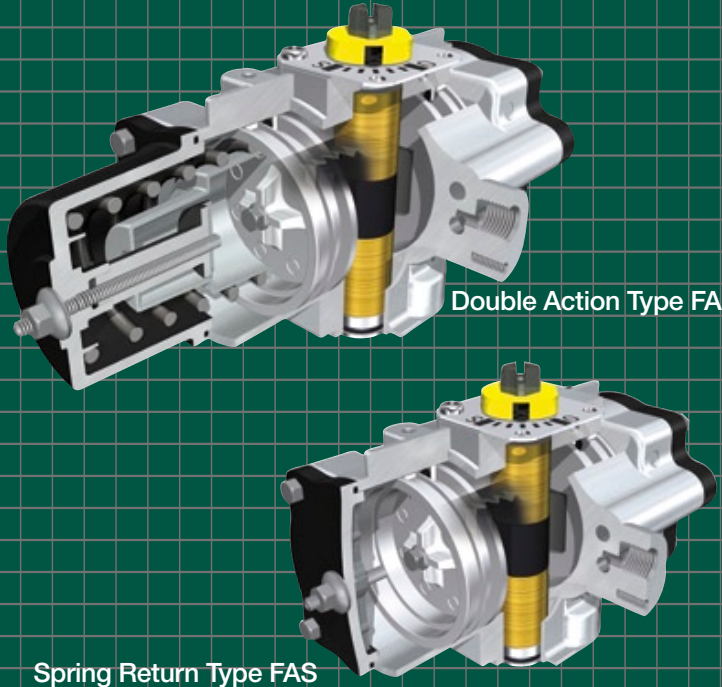
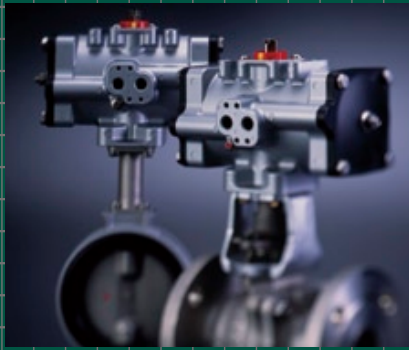


KITZ Pneumatic Valve Actuators

F SERIES



Features

- High durability.
- Single rack configuration.
- Rack and Pinion mechanism are not pressurized by supply air to minimize corrosion and eliminate leakage from drive shaft.
- Unique piston and piston sealing design.
- Minimize air consumption.
- Shaft rotation 90 degree (+/- 7 degree.)
- Easy conversion between Double acting and Spring return.
- Easy conversion between Fail open and Fail close.
- Spring out proof cartridge.
- ISO 5211 bottom mount and Namur top side mount for accessories.
- All fasteners are Stainless Steel.
- Direct mount to KITZ DJ/XJ Butterfly valves.

Specifications

Operating medium	Compressed instrumentation air or nitrogen gas
Operating pressure	Standard operating pressure 60psi (0.39MPa)
Operating pressure range	45 to 100psi (0.29MPa to 0.69MPa)
Cylinder test pressure	140psi (0.97MPa)
Shaft rotation	90°±7° (Open / Closed)
Service temperature	-4°F to 176°F (Supply air should not be frozen)
Opening degree indication	Indicator has 15 degree graduation
Valve mounting flange	ISO5211
Accessory mounting	NAMUR / VDE3845

Actuator Output Torque

Double-Acting unit: In-lbs

Type	Operating pressure (air)		
	45psi	60psi	75psi
FA-1	125	166	208
FA-2	296	394	493
FA-3	597	795	991
FA-4	1186	1584	1974
FA-5	2160	2939	3602
FA-6	5204	6939	8674

Actuator weight

unit: lbs

Double-Acting	weight (approx.)	Spring return	weight (approx.)
FA-1	0.77	FAS-1	0.95
FA-2	1.3	FAS-2	1.7
FA-3	2.0	FAS-3	2.9
FA-4	3.6	FAS-4	5.8
FA-5	6.1	FAS-5	10.5
FA-6	12.7	FAS-6	22.5

Spring return unit: In-lbs

Type	Spring rating	Operating pressure (air)							
		45psi		60psi		75psi		Operating force(spring)	
		0° *1	90° *2	0° *1	90° *2	0° *1	90° *2	0° *3	90° *4
FAS-1	45psi	82	58	—	—	—	—	46	70
	60psi	—	—	103	68	—	—	67	103
	75psi	—	—	—	—	129	85	84	128
FAS-2	45psi	179	121	—	—	—	—	117	174
	60psi	—	—	237	159	—	—	157	235
	75psi	—	—	—	—	296	199	197	294
FAS-3	45psi	379	290	—	—	—	—	210	317
	60psi	—	—	474	315	—	—	311	470
	75psi	—	—	—	—	591	393	390	588
FAS-4	45psi	735	526	—	—	—	—	492	700
	60psi	—	—	974	660	—	—	658	974
	75psi	—	—	—	—	1221	825	824	1221
FAS-5	45psi	1372	965	—	—	—	—	894	1301
	60psi	—	—	1797	1221	—	—	1221	1797
	75psi	—	—	—	—	2257	1514	1514	2248
FAS-6	45psi	3133	2204	—	—	—	—	2098	3027
	60psi	—	—	4187	2885	—	—	2885	4204
	75psi	—	—	—	—	5231	3470	3487	5249

*1At starting point (close position) *2At ending point (open position)
*3At ending point (close position) *4At starting point (open position)