

Habonim's COMPACT™ - For Fastest Actuation

Enhanced safety of ESD applications



COMPACT™

The Solution for Emergency Shut-Down Systems

Fast Action

The unique four-piston design reduces the diameter of the actuator pinion, which significantly shortens piston travel. The result: a fast-action actuator.

Short Response Time

A short response time is essential for valves operating in Emergency Shut Down (ESD) systems such as in refineries, power stations, mining and other applications where Safety Integrity Level (SIL) loops are mandatory.

The tables show the closing times (in seconds) of unloaded and loaded actuators, using "real-life" torque forces. The stroke time measures the actual movement of the actuator, without delay by a solenoid or any other accessory.



		Compact actuator closing time (sec.)			
		Normal		Improved	Fast
Compact Actuator for Emergency Shut-Down (ESD) Systems		1/4" Namur solenoid valve Cv = 0.9		1/4" Namur solenoid valve Cv = 0.9, & Breather Block	1/4" Non-Namur Solenoid valve, Cv = 1, & 1/4" quick exhaust
Size	Load	3/2	5/2	3/2	5/2
C20-2C	0	0.09	0.08	0.05	0.05
	10 Nm / 89 lbf-in	0.14	0.09	0.07	0.07
C25-2C	0	0.17	0.12	0.07	0.06
	22 Nm / 195 lbf-in	0.35	0.15	0.17	0.15
C30-2C	0	0.26	0.20	0.12	0.10
	36 Nm / 319 lbf-in	0.49	0.23	0.25	0.20
C35-2C	0	0.39	0.29	0.26	0.17
	60 Nm / 531 lbf-in	0.58	0.35	0.41	0.27
C45-2C	0	0.71	0.52	0.43	0.30
	116 Nm / 1027 lbf-in	1.23	0.64	0.76	0.57
C60-2C	0	1.79	1.30	1.21	0.73
	260 Nm / 2300 lbf-in	2.36	1.38	1.73	1.13
C75-2C	0	2.78	2.00	1.86	1.08
	460 Nm / 4071 lbf-in	3.90	2.42	2.91	1.75

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Size	Load	3/2	5/2	3/2	5/2
C60-2C	0	0.71	0.49	0.99	0.53
	260 Nm / 2300 lbf-in	1.22	0.60	1.50	0.80
C75-2C	0	1.12	-	-	1.04
	460 Nm / 4071 lbf-in	1.79	-	-	1.52

