

**PATENT PENDING (Application No. 201921049425)**  
**GAS OVER OIL ACTUATORS**

## Operating Ranges:

### Torque Outputs:

Double Acting: 63 - 670,000 Nm (557 - 5,906,668 lb-in)

Spring-return End Torque: 49 - 330,064 Nm (433 - 2,921,312 lb-in)

### Operating Pressure:

Hydraulic: 27 - 345 bar (400 - 5000 PSIG)

### Operating Temperature:

Standard Range: -37 °C to 100 °C (-35° F to 212° F)

High Range: -26 °C to 204 °C (-15° F to 400° F)

Low Range: -40 °C to 148 °C (-40° F to 300° F)

## Benefits:

### Best In Industry Warranty:

A Series actuators are backed by 5 year material and workmanship warranty.

### Compact and Light-Weight Actuators:

Advanced material selection, optimised design and improved center of gravity location make our actuators compact and light-weight compared to other actuators having same torque output.

### Wear Resistant Design:

Unique Flexible Joint (Patent Pending) eliminates side loading enhancing component life and reducing wear. Self-lubricating bearings and high surface finish enhance cyclic life and reduce the component wear.

### Superior Coatings:

Xylan coating on cylinders and spring can, QPQ coatings on critical components and external paint options results in better performance in harsh environments.

### Water Ingress Protection:

A Series actuators meets IP67M (Ingress Protection) specifications. Only O-Ring Seals are used (No Gaskets).

### Travel Stop Adjustment:

Bi-Directional Travel Stops integral to the actuator, the stops allow 80° to 100° total travel adjustment. 10° of stroke adjustment possible at each end of stroke.

## Optional Configurations:

### Manual :

The actuator opens / closes valve by manually operating shifter on site. (Page No 04)

### Two way Electric:

The actuator is operated by energizing / de-energizing the solenoid valves electrically. (Page No 05)

- with electrical fail-safe. (contact factory)
- with accumulator based fail-safe. (contact factory)

### Two way Pneumatic:

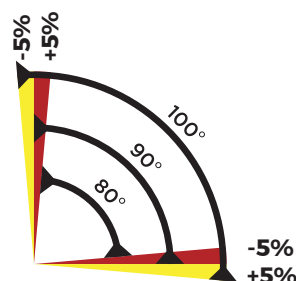
Pneumatically pressurizing the open pilot / close pilot results into opening / closing of valve.

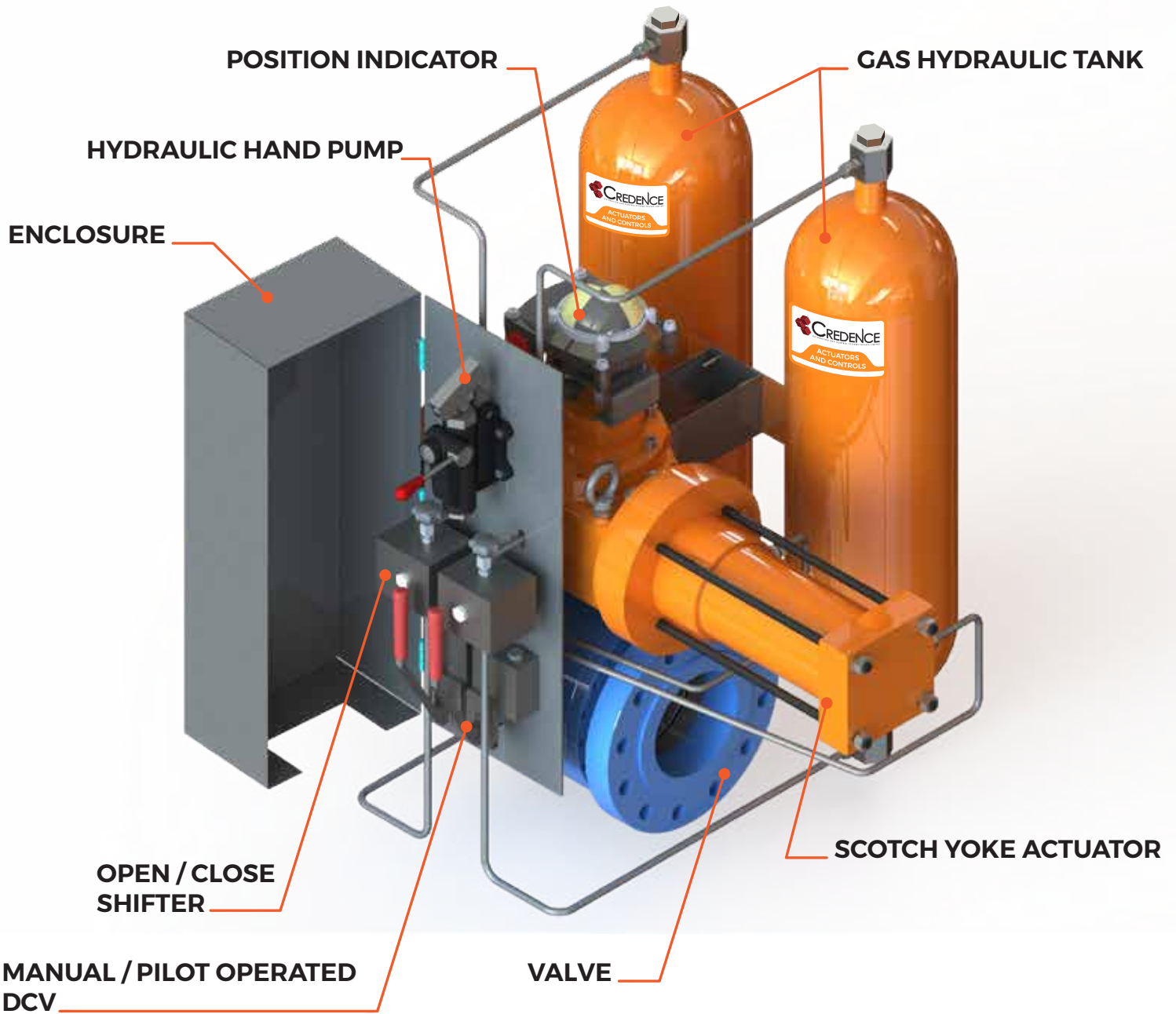
- with low pressure shutoff. (contact factory)
- with high pressure shutoff. (contact factory)
- with high and low pressure shutoff. (contact factory)
- with high to close, low to open. (contact factory)

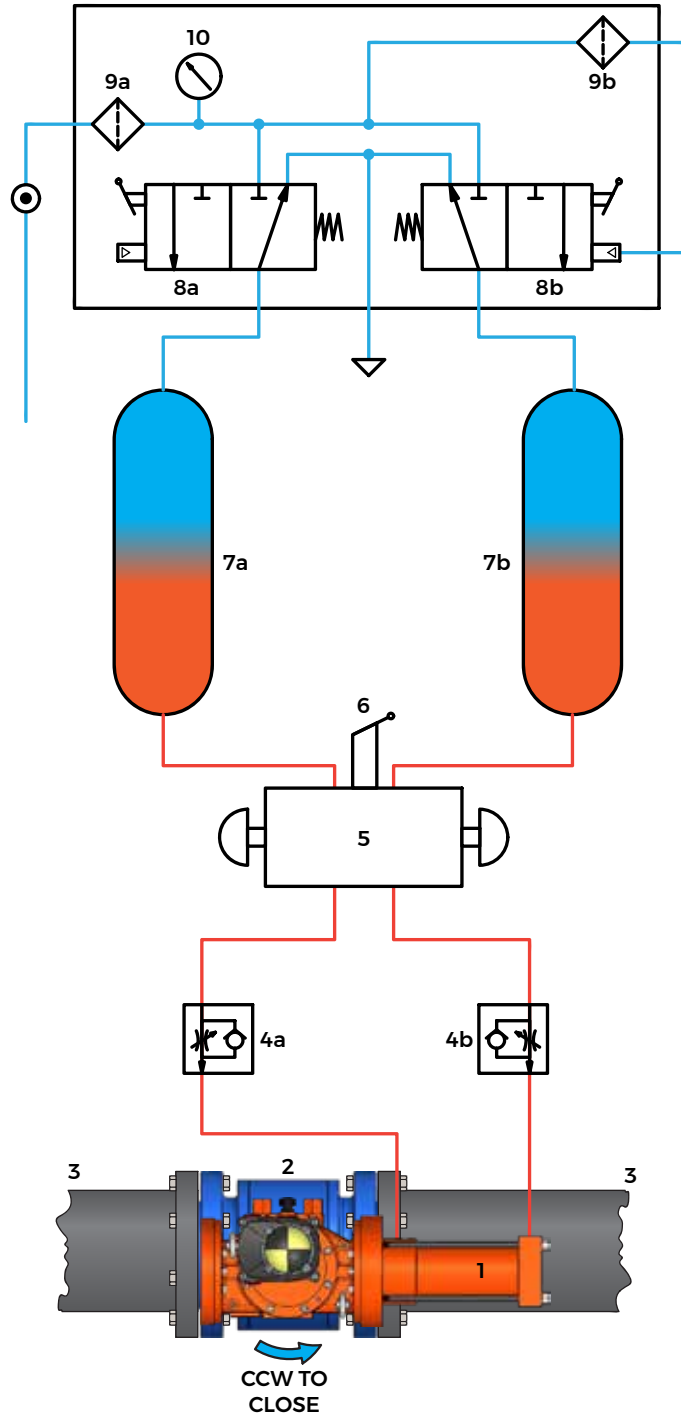
### Line Break:

The system switches the actuator to off position in case of sudden pressure drop in the line.

- Electronic Line Break. (contact factory)
- Differential Pressure Line Break. (contact factory)

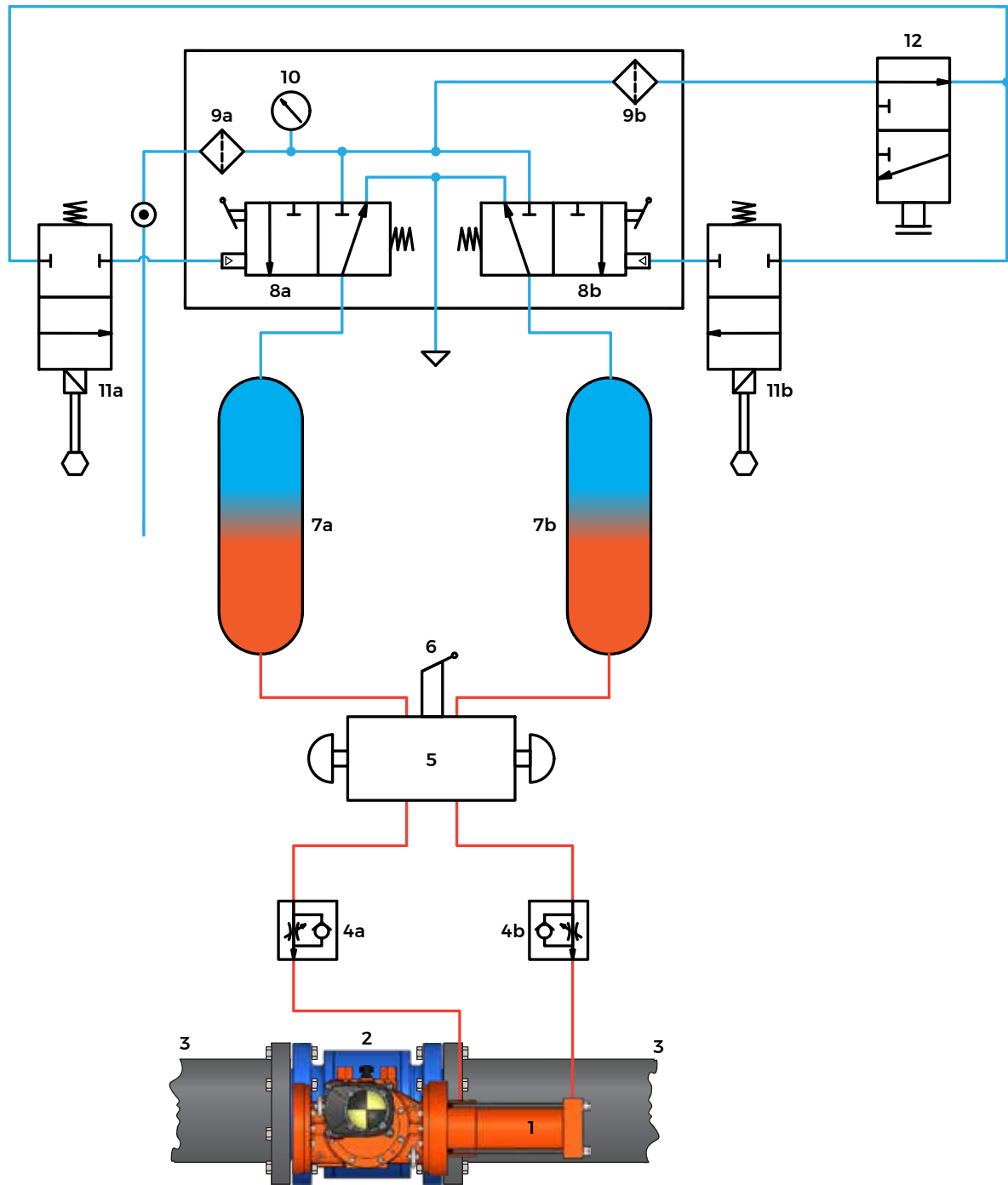






1. SCOTCH YOKE ACTUATOR
2. VALVE
3. GAS PIPELINE
- 4a, 4b. ADJUSTABLE SPEED CONTROL
5. SHIFTER
6. HYDRAULIC HAND PUMP
- 7a, 7b. GAS HYDRAULIC TANK
- 8a, 8b. MANUAL / PILOT OPERATED DCV
- 9a, 9b. GAS FILTER
10. PRESSURE GAUGE





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10. PRESSURE GAUGE
- 11a, 11b. TWO WAY NC SOLENOID VALVE
12. AUTO / MANUAL SELECTOR VALVE



ACTUATOR MODEL NO.	STROKE POSITION	TORQUE		Max. Stem Acceptance. (mm)	Maximum Torque		Oil Volume for Each Displacement CM3
		N-m/bar	lb-in/psig		N-m	lb-in	
GA07H15	START/END	5	3	60	1768	15648	57
	MINIMUM	3	2		913	8079	
GA07H17	START/END	9	5		3112	27540	99
	MINIMUM	5	3		1607	14219	
GA07H02	START/END	15	9		4013	35518	158
	MINIMUM	8	5		2072	18338	
GA07H22	START/END	21	12		3640	32216	226
	MINIMUM	11	7		1879	16633	
GA07H25	START/END	26	15		3610	31947	280
	MINIMUM	13	8		1864	16495	
GA07H03	START/END	41	24		4077	36082	443
	MINIMUM	21	13		2105	18629	
GA07H35	START/END	59	35		3814	33759	638
	MINIMUM	30	18		1969	17430	
GA08H25	START/END	29	17		2925	25888	318
	MINIMUM	15	9		1510	13366	
GA08H03	START/END	48	29	3119	27602	522	
	MINIMUM	25	15	1610	14251		
GA08H35	START/END	70	42	3519	31142	765	
	MINIMUM	36	22	1817	16079		
GA08H04	START/END	99	59	3450	30538	1072	
	MINIMUM	51	31	1781	15767		
GA09H16	START/END	114	68	9126	80769	1240	
	MINIMUM	59	36	4712	41702		
GA09H20	START/END	141	84	11310	100099	1537	
	MINIMUM	73	45	5839	51681		
GA10P24	START/END	169	101	16931	149849	1840	
	MINIMUM	87	53	8741	77368		
GA10P28	START/END	225	135	18025	159535	2449	
	MINIMUM	116	71	9306	82369		
GA10P28	START/END	335	200	21745	192464	3636	
	MINIMUM	173	105	11227	99370		
GA11H06	START/END	414	247	41404	366454	4500	
	MINIMUM	214	130	21377	189202		
GA11H07	START/END	578	345	46267	409498	6286	
	MINIMUM	299	182	23888	211426		
GA11H08	START/END	768	458	61433	543730	8347	
	MINIMUM	396	242	31718	280730		
GA12H08	START/END	921	550	92081	814981	10009	
	MINIMUM	475	290	47542	420778		
GA12H09	START/END	1,182	705	94536	836714	12845	
	MINIMUM	610	372	48809	431999		
GA13P09	START/END	1,392	831	139242	1232396	15135	
	MINIMUM	719	439	71891	636291		
GA13P10	START/END	1,744	1041	139523	1234886	18957	
	MINIMUM	900	549	72036	637577		





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