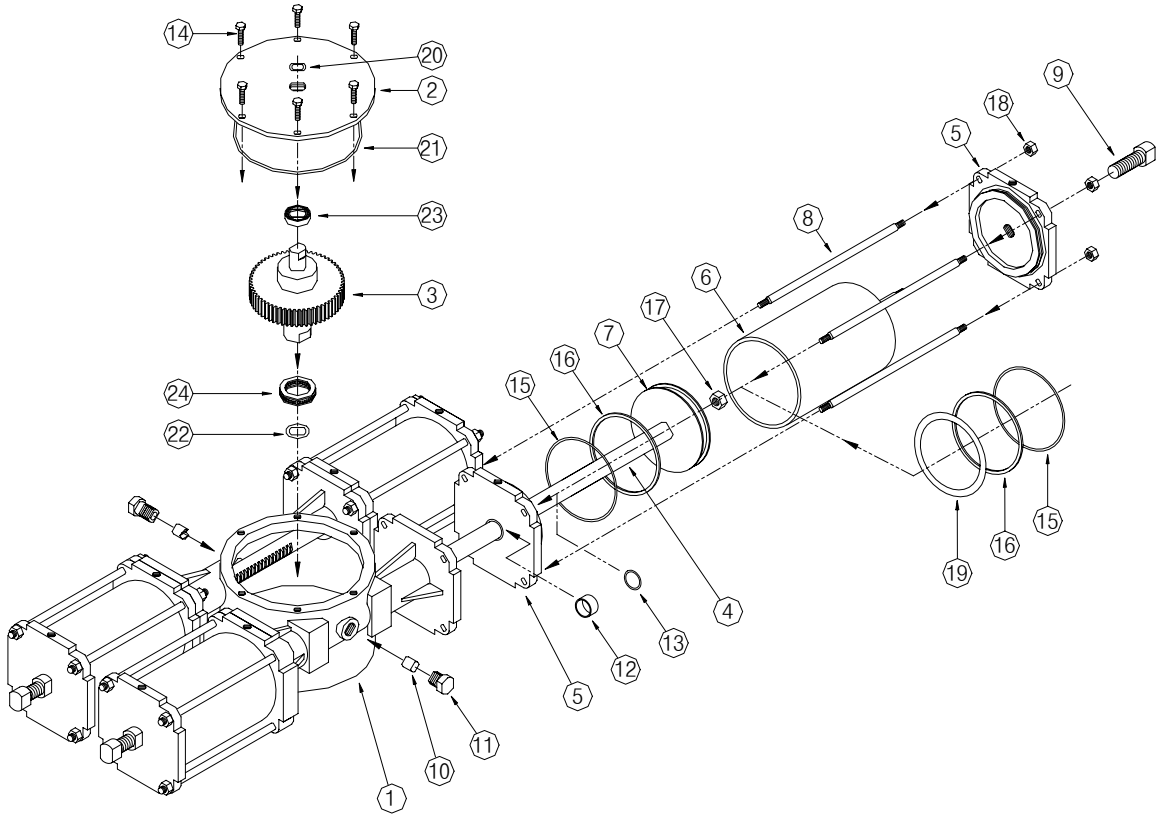
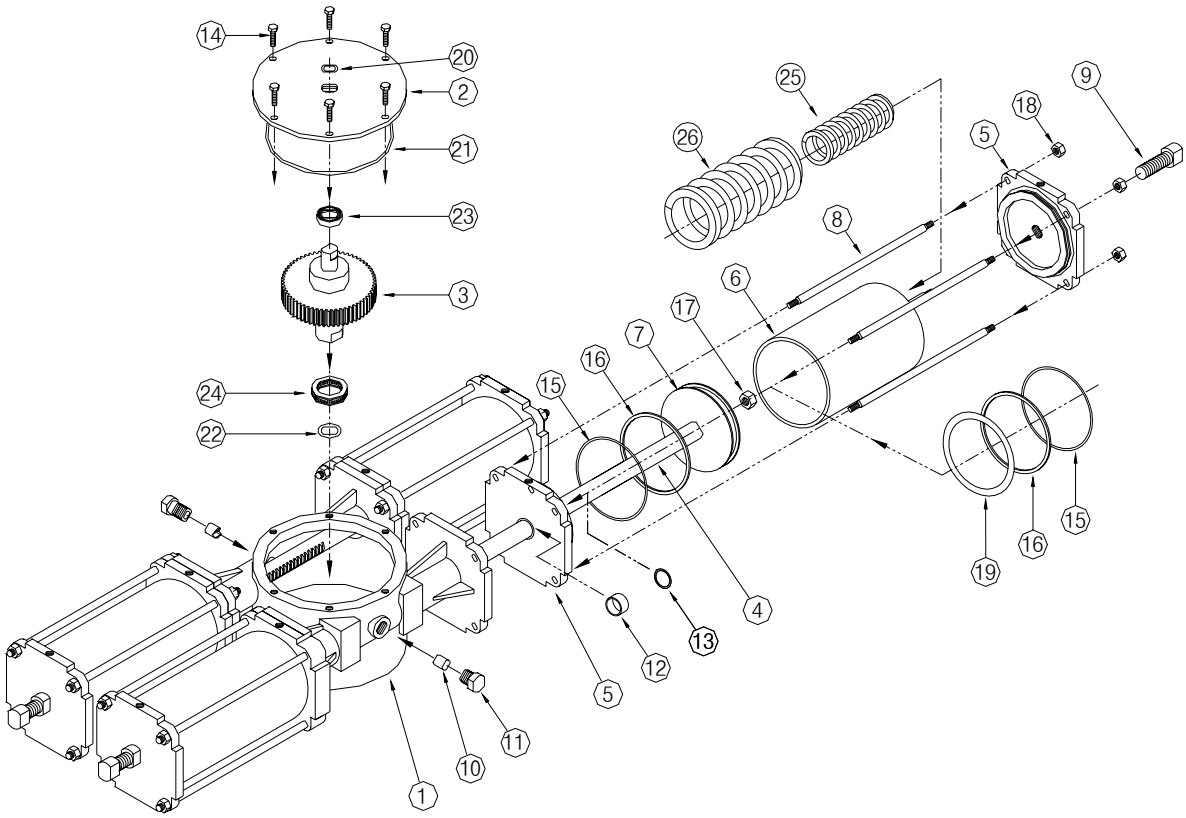
■ ASSEMBLY DRAWING & PARTS LIST

▶ DOUBLE ACTING



NO	DESCRIPTION	NO	DESCRIPTION
1	BODY	13	O-RING
2	COVER	14	BOLT
3	PINION	15	CYLINDER COVER O-RING
4	STEM	16	BACK-UP RING
5	CYLINDER COVER	17	STEM NUT
6	CYLINDER	18	NUT
7	PISTON	19	PISTON O-RING
8	SUPPORT BOLT	20	O-RING
9	SETTING BOLT	21	O-RING
10	STEM GUIDE BUSH	22	O-RING
11	GUIDE BOLT	23	RADIAL BEARING
12	DU BEARING	24	THRUST BEARING

▶ SINGLE ACTING



NO	DESCRIPTION	NO	DESCRIPTION
1	BODY	14	BOLT
2	COVER	15	CYLINDER COVER O-RING
3	PINION	16	BACK-UP RING
4	STEM	17	STEM NUT
5	CYLINDER COVER	18	NUT
6	CYLINDER	19	PISTON O-RING
7	PISTON	20	O-RING
8	SUPPORT BOLT	21	O-RING
9	SETTING BOLT	22	O-RING
10	STEM GUIDE BUSH	23	RADIAL BEARING
11	GUIDE BOLT	24	THRUST BEARING
12	DU BEARING	25	INSIDE SPRING
13	O-RING	26	OUTSIDE SPRING

■ DOUBLE ACTING TORQUE TADA

N-M

MODEL	STROKE	SUPPLY AIR PRESSURE				
		3 bar	4 bar	5 bar	6 bar	7 bar
SA - A20DA	152 mm	914.2	1218.9	1523.6	1828.4	2133.1
SA - B20DA	152 mm	1828.4	2437.8	3047.3	3656.8	4266.3
SA - C15DA	179 mm	2317.4	3223.3	4029.1	4834.9	5640.7
SA - D20DA	179 mm	4297.7	5730.2	7162.8	8595.4	10028.0

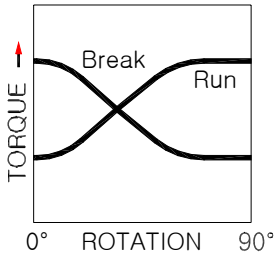
■ SINGLE ACTING TORQUE TADA

N-M

M O D E L	SUPPLY AIR PRESSURE								SPRING STROKE	
	4 bar		5 bar		6 bar		7 bar			
	Start	End	Start	End	Start	End	Start	End	Start	End
SA - A20SR	670.4	365.6	975.1	670.3	1280.0	975.1	1584.5	1280.0	853.2	548.5
SA - B20SR	1340.8	731.3	1950.2	1340.8	2559.7	1950.2	3169.2	2559.7	1706.5	1097.0
SA - C15SR	1772.8	967.0	2578.6	1772.8	3384.4	2578.6	4190.2	3384.4	2256.3	1450.4
SA - D20SR	3151.6	1719.0	4584.2	3151.6	6016.7	4584.2	7449.3	6016.7	4011.2	2578.6

APPLICATION OF VALVES & SIZING

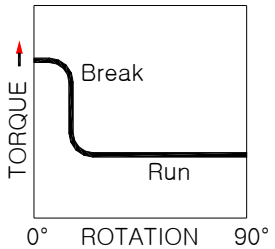
Throttling valve, particularlarly BALL valve and PLUG valves, require higher actuator torque outputs to overcome the hysteresis or dead spot caused by the friction of the seat, as the valve modulates. In sizing, it may be necessary to consider that the valve "BREAK" torque will occur throughout the stroke, which implies that the actuator be sized for torque output that is at least 20% greater than the valve torque at the actuator's minimum "RUN" or "END" torque output.



BALL & PLUG VALVE

SINGLE ACTING & FAIL-SAFES

Consideration should be given to the economics of selecting a "fail-safe" actuator over a spring return actuator, when high torque outputs are required. "Fail safe" actuators utilize an air accumulator as an "air spring" in lieu of a mechanical spring to fail a valve to a closed or open position. Depending on the conditions and the space available, a single air accumulator can operate several valves.



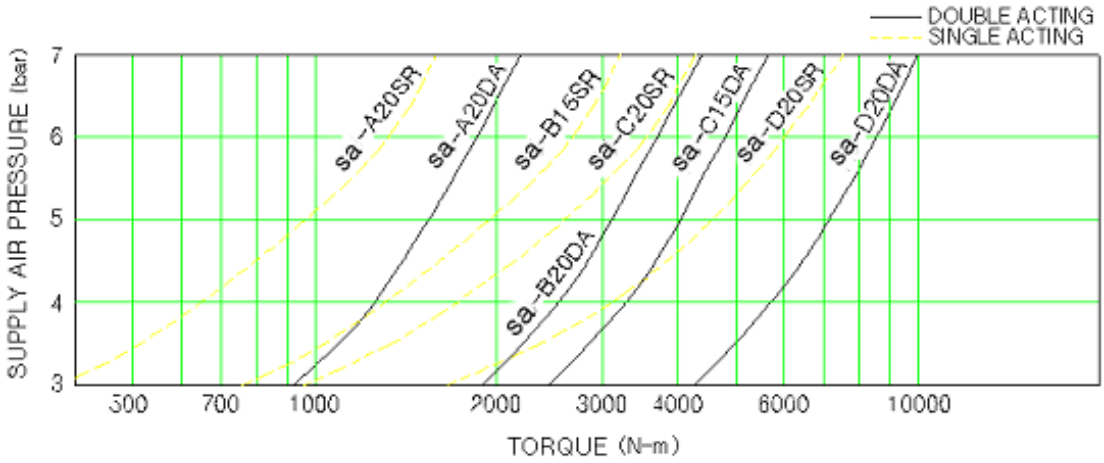
BUTTERFLY VALVE

■ AIR CONSUMPTION

♠ 4bar Supply

DOUBLE ACTING			SINGLE ACTING		
MODEL	VOLUM(ℓ	Consumption (Nℓ	MODEL	VOLUM(ℓ	Consumption (Nℓ
SA - A20DA	12.8	62.4	SA - A20SR	6.4	31.2
SA - B20DA	25.6	124.7	SA - B20SR	12.8	62.4
SA - C15DA	29.8	145.2	SA - C15SR	14.9	72.6
SA - D20DA	51.2	249.4	SA - D20SR	25.6	124.7

■ TORQUE CHARACTERISTIC



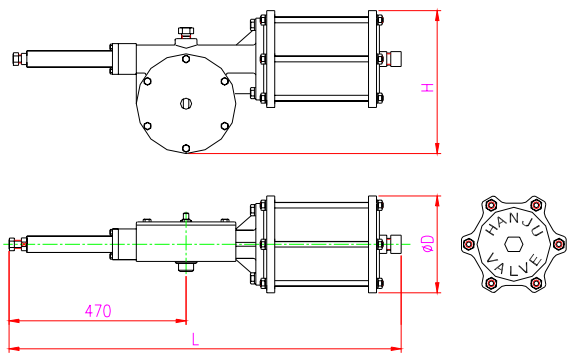
♠

- ORQUE CHARACTERISTIC .
- 형 VALVE VALVE .
- HUT-OFF POSITIONER .
- 사용자의 요구에 따라 특수 제작이 가능하다.
- 자유로운 각도 조절로 원하는 제어를 할 수 있다.
- OMPACT .
- 정해 및 조립이 쉽고 간단하여 유지, .
- LUMINUM .
- 경산성의 절감으로 가격이 타 회사에 비해 싸다.

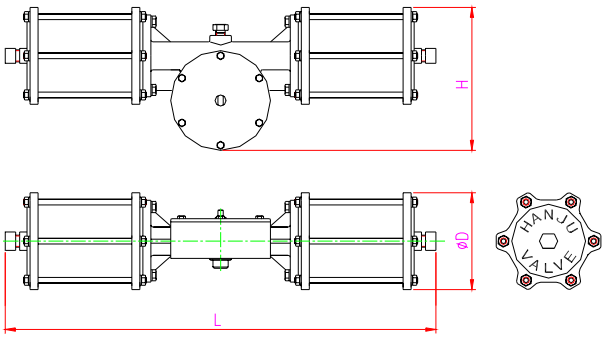
♠ Specification Of Actuator

주위 온도 : -20℃ ~ 120℃
사용 압력 : 4bar ~ 7bar
재 질 : Actuator Body, Cylinder, Cylinder Cover, Piston - Aluminum Alloy
Stem & Pinion - ASTM A193 B7(S45C)
O-Ring - Nitrile Ruber
Spring - ASTM A232(SWOCV-V), SUP9

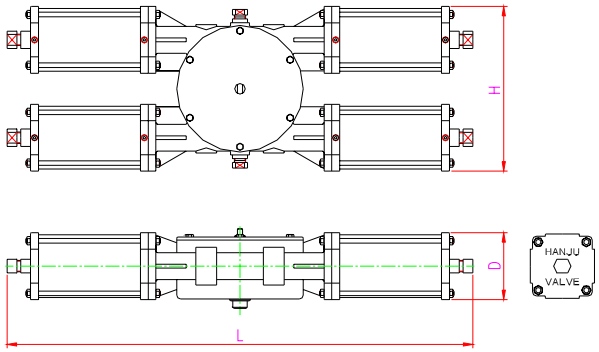
■ ACTUATOR DIMENSION



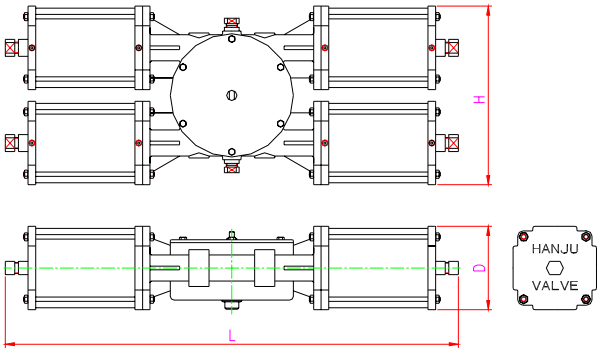
SA-A20DA , SA-A20SR



SA-B20DA , SA-B20SR



SA-C15DA , SA-C15SR



SA-D20DA , SA-D20SR

unit : mm

MODEL	SA-A20DA	SA-A20SR	SA-B20DA	SA-B20SR	SA-C15DA	SA-C15SR	SA-D20DA	SA-D20SR
BORE	Ø200	Ø200	Ø200	Ø200	Ø150	Ø150	Ø200	Ø200
L	990	1350	1080	1760	1190	1770	1220	1920
D	264	264	264	264	170	170	227	227
H	370	370	370	370	430	430	480	480
PT	PT 3/8″	PT 3/8″	PT 3/8″	PT 3/8″	PT 1/4″	PT 1/4″	PT 3/8″	PT 3/8″