
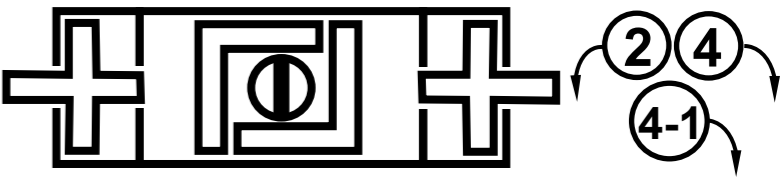

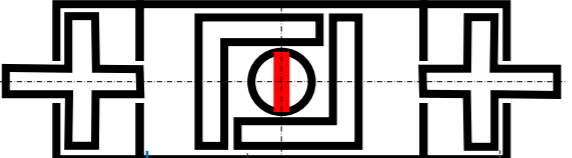
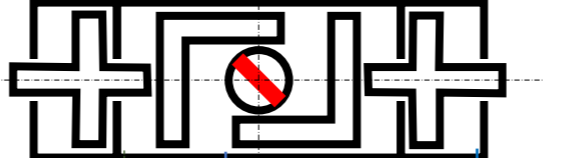
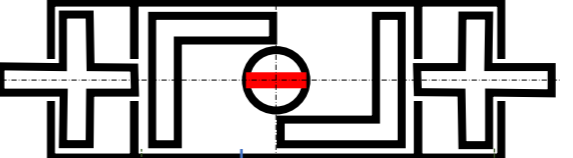
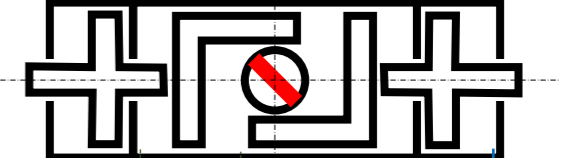
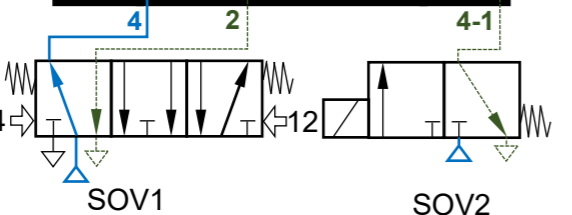
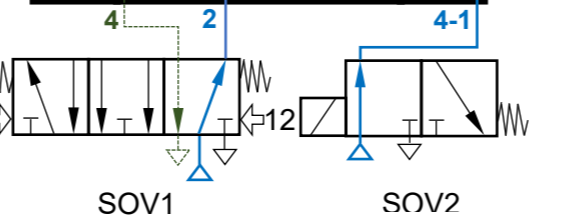
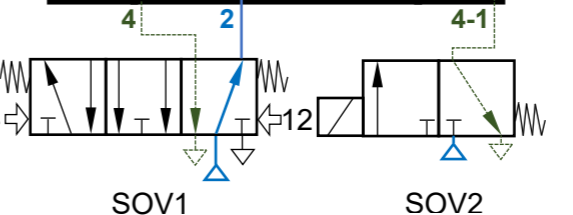
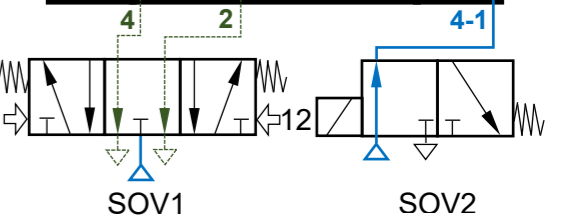
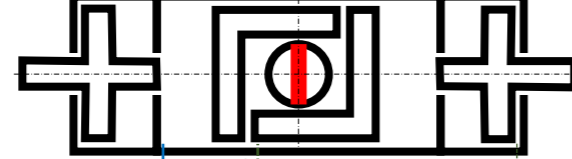
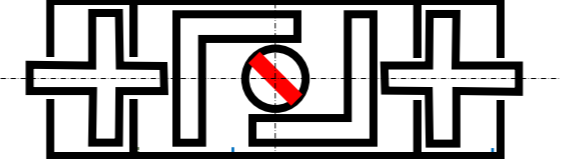
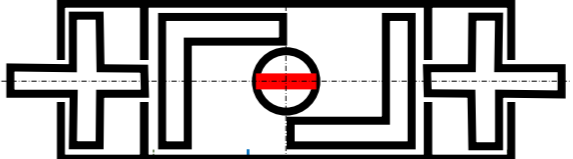
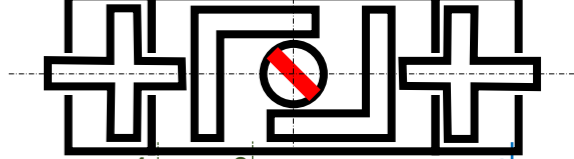
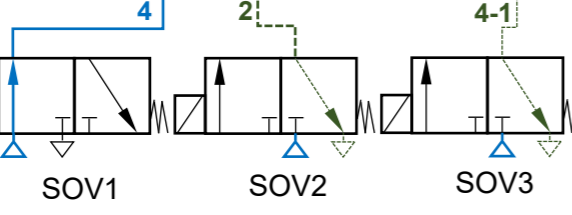
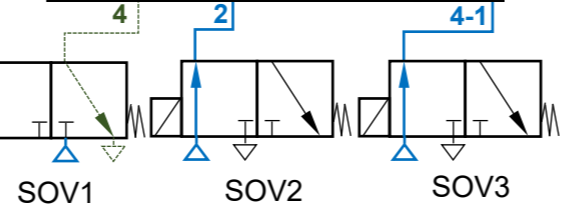
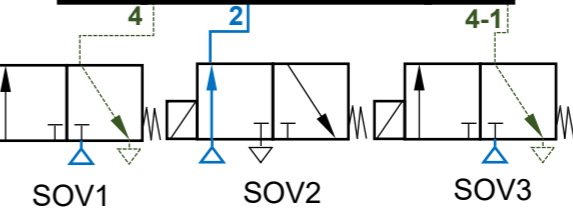
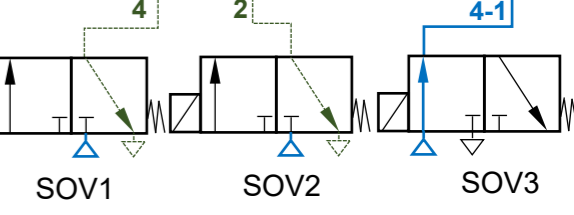

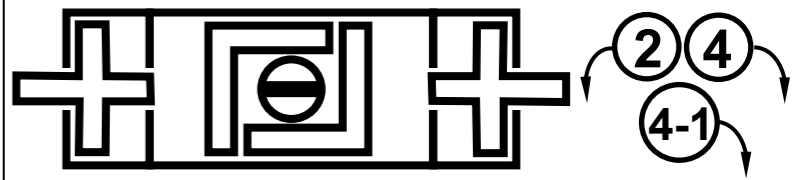

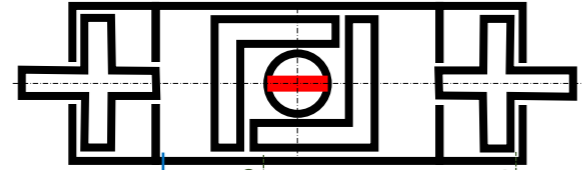
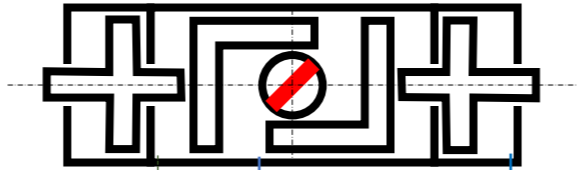
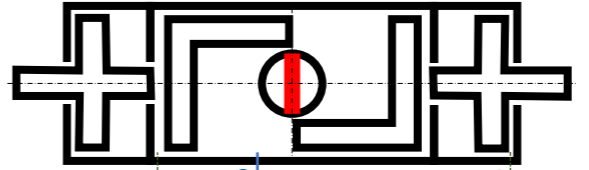
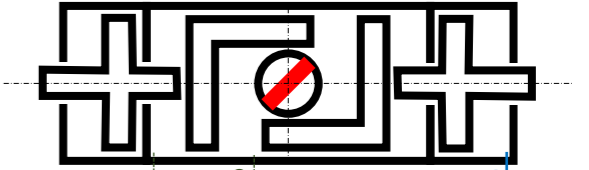
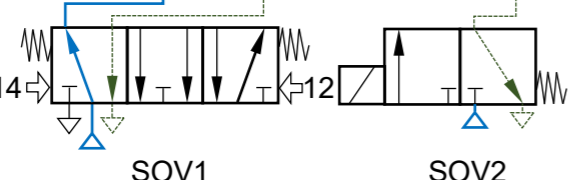
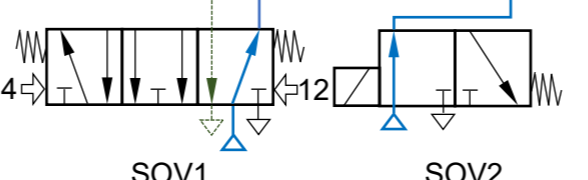
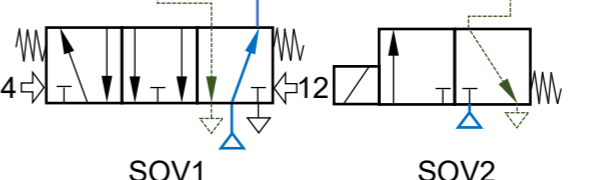
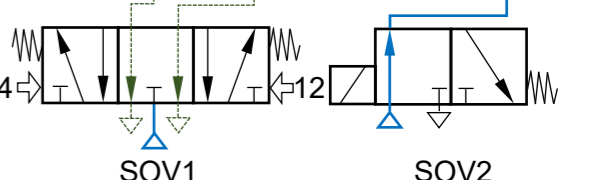
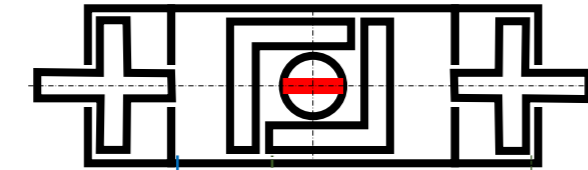
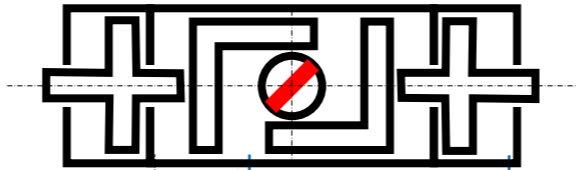
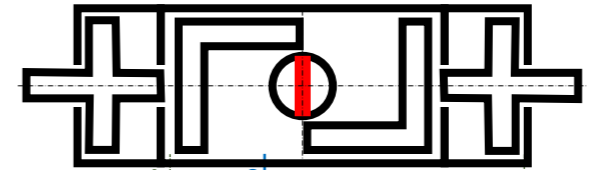
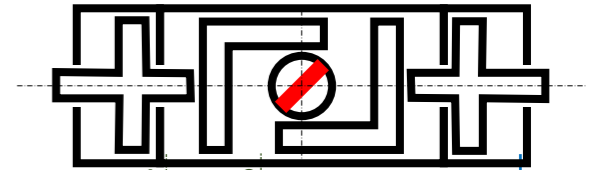
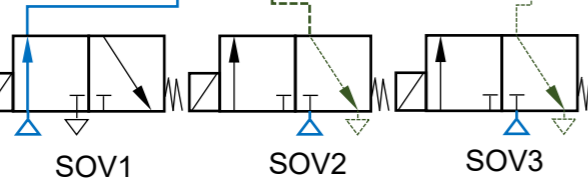
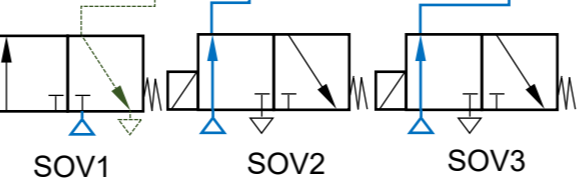
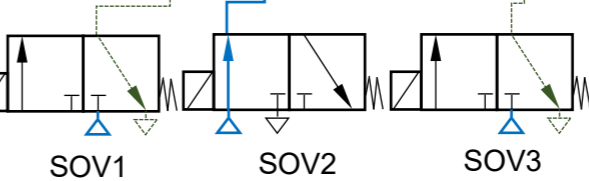
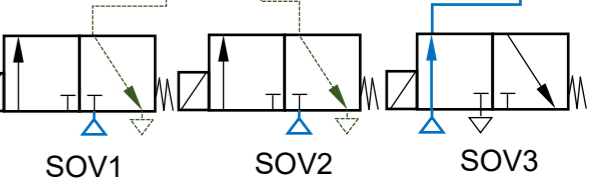

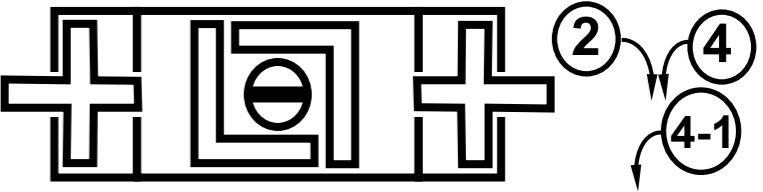

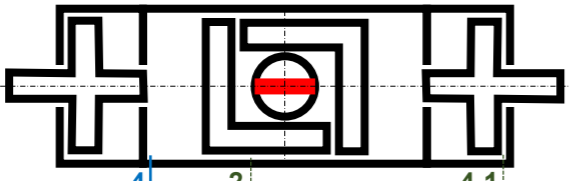
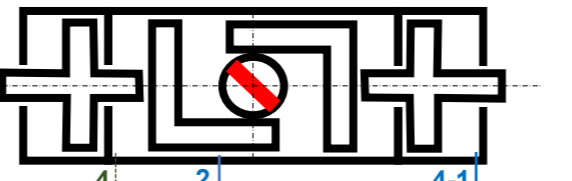
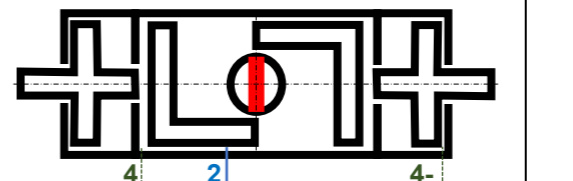
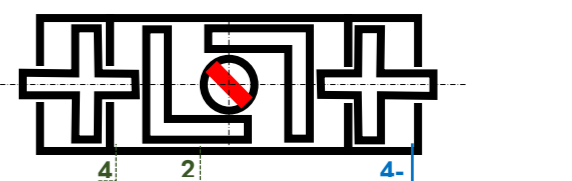
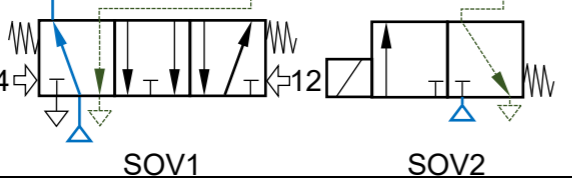
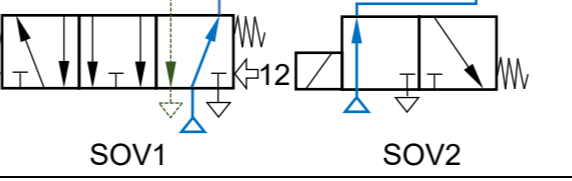
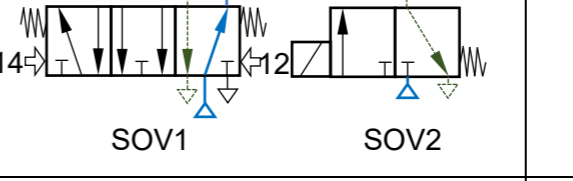
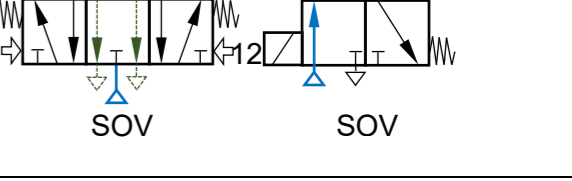
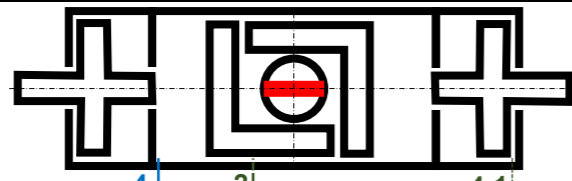
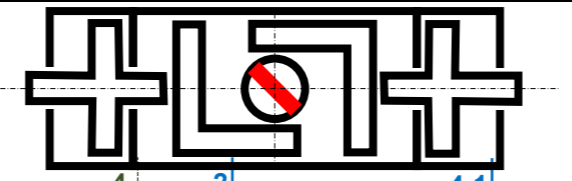
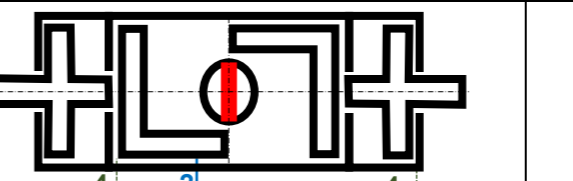
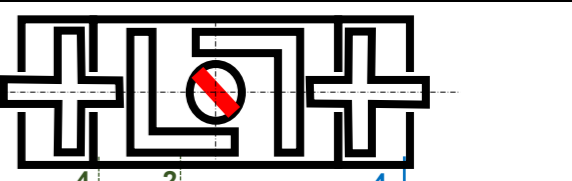
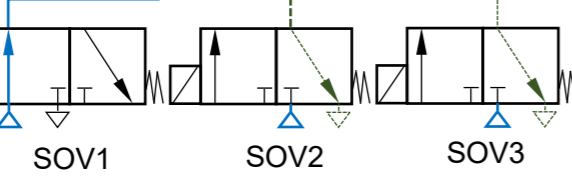
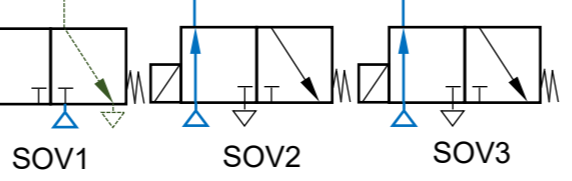
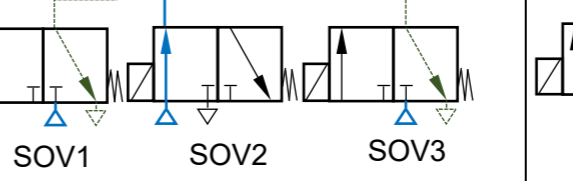
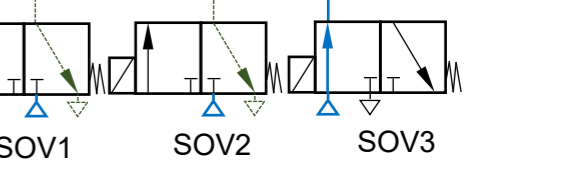
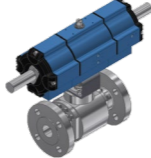
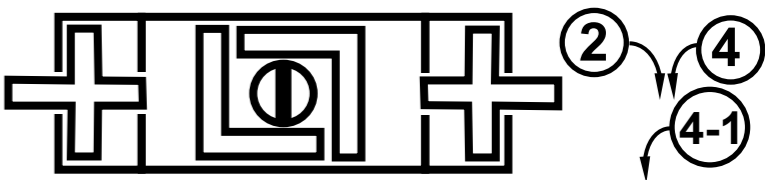
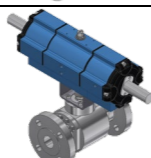
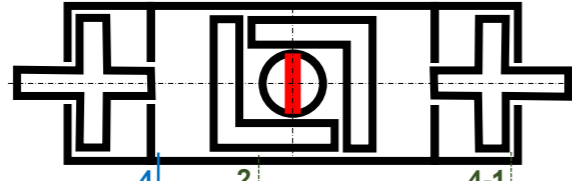
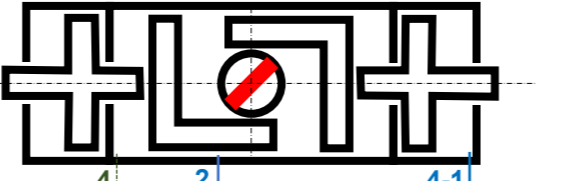
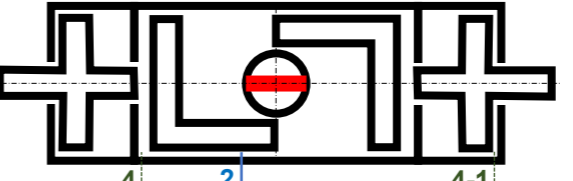
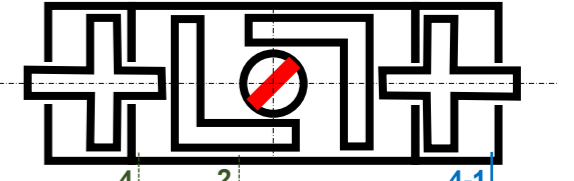
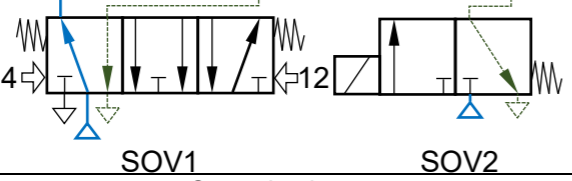
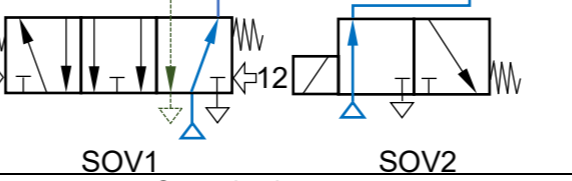
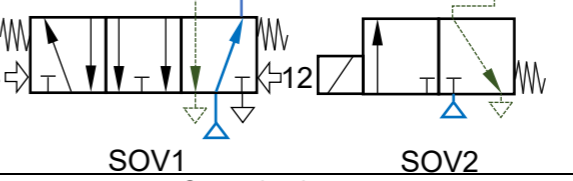
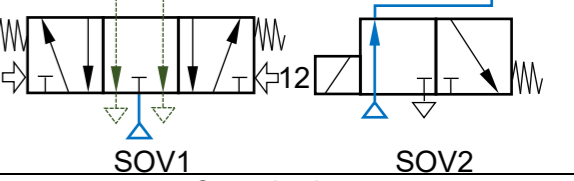
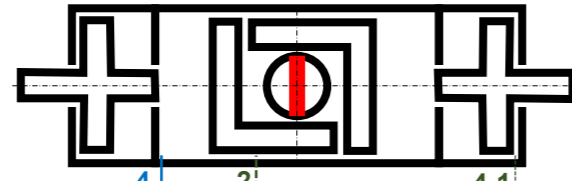
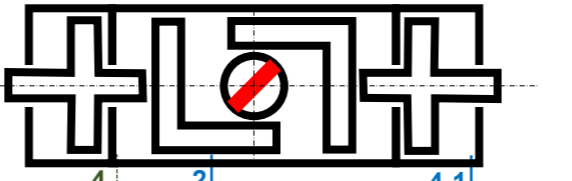
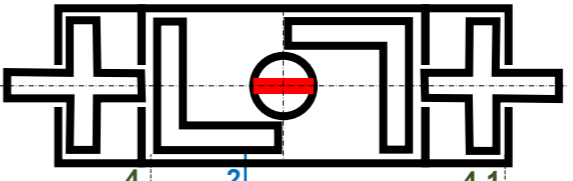
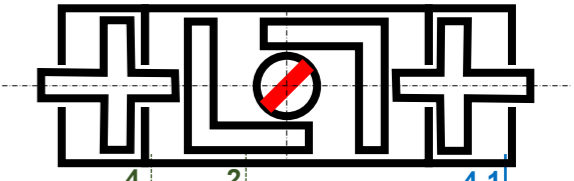

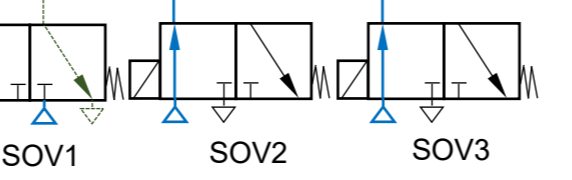
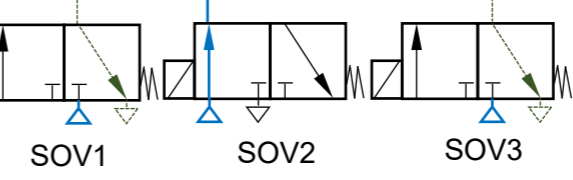



1. DAD – DOUBLE-ACTING WITH CONTINUOUSLY ADJUSTABLE INTERMEDIATE POSITION

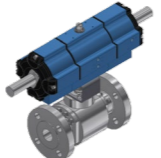
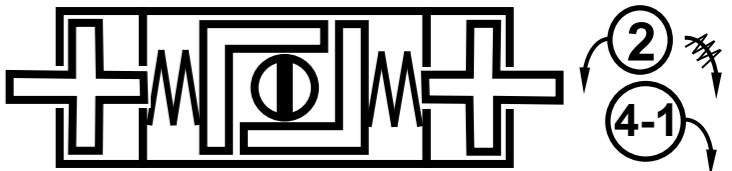

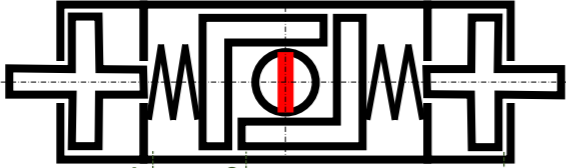
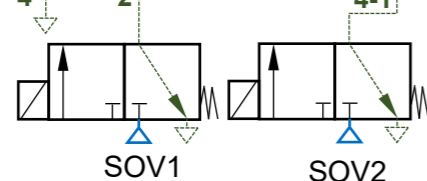
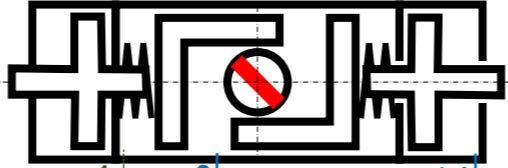
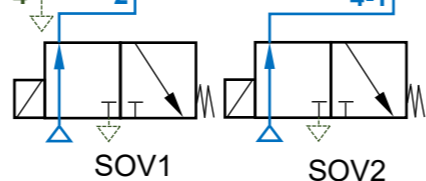
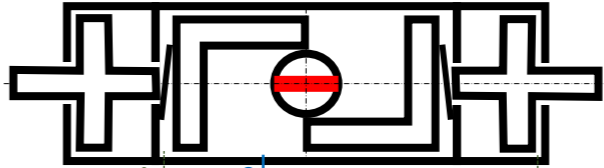
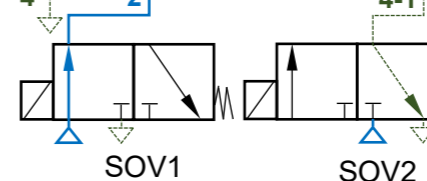
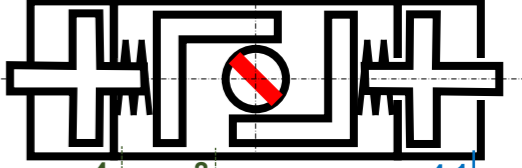
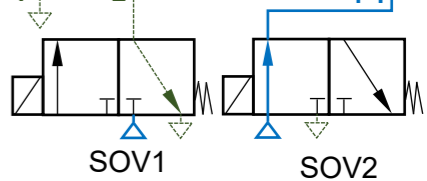
VARIANT	Effektive Direktion	Construction		Note	Type Plate	
01	RIGHT	Standard		Standard 90° rotary actuator with switching positions 0°, 90° and infinitely variable intermediate position for control via 3x 3/2-way Valve Piping required!!!	<p>VARIANT 01 OPERATING DIRECTION RIGHT</p> 	
		Transverse				
	Switch Position 0°		Switch Position 0° ⇒ Intermediate Position		Switch Position 90°	Switch Position 90° ⇒ Intermediate Position
	Exhaust inner chamber (2) Venting outer chamber (4) Exhaust outer chamber (4-1) → Pinion rotates clockwise		Venting inner chamber (2) Exhaust outer chamber (4) Venting outer chamber (4-1) → Pinion rotates counterclockwise		Venting inner chamber (2) Exhaust outer chamber (4) Exhaust outer chamber (4-1) → Pinion rotates counterclockwise	Exhaust inner chamber (2) Exhaust outer chamber (4) Venting outer chamber (4-1) → Pinion rotates clockwise
	5/3-way + 3/2-way valve					
						
	Control valves SOV1 = 14 SOV2 = 0		Control valves SOV1 = 12 SOV2 = 1		Control valves SOV1 = 12 SOV2 = 0	Control valves SOV1 = 0 SOV2 = 1
	3 x 3/2-way valve					
						
	Control valves SOV1 = 1 SOV 2 = 0 SOV 3 = 0		Control valves SOV 1 = 0 SOV 2 = 1 SOV 3 = 1		Control valves SOV 1 = 0 SOV 2 = 1 SOV 3 = 0	Control valves SOV 1 = 0 SOV 2 = 0 SOV 3 = 1

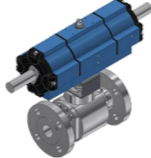
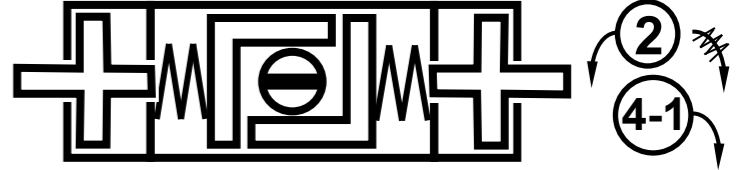

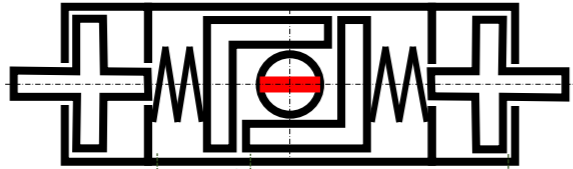
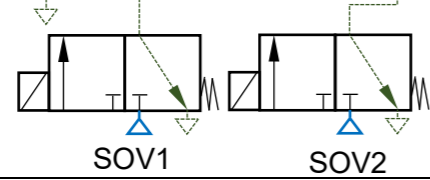
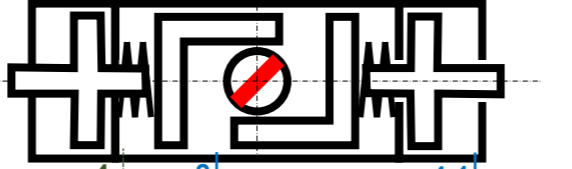
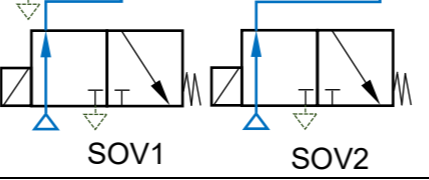
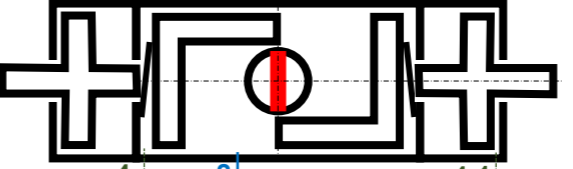
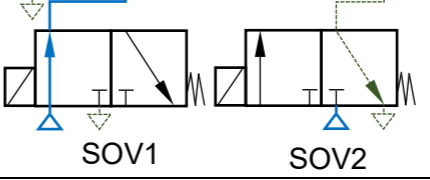
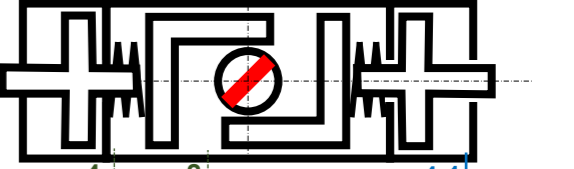
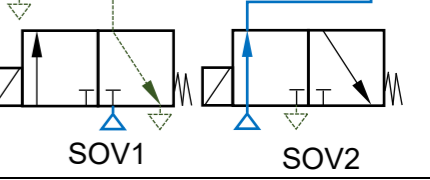
VARIANT	Effektive Direktion	Construction		Note	Type Plate				
02	RIGHT	Standard		Pinion rotated 90 90° rotary drive with switching positions 0°, 90° and infinitely variable intermediate position for control via 3x 3/2-way Valve Piping required!!!	<p>VARIANT 02 OPERATING DIRECTION RIGHT</p> 				
		Transverse							
	Switch Position 0°		Switch Position 0° ⇒ Intermediate Position		Switch Position 90°		Switch Position 90° ⇒ Intermediate Position		
	Exhaust inner chamber (2) Venting outer chamber (4) Exhaust outer chamber (4-1) → Pinion rotates clockwise		Venting inner chamber (2) Exhaust outer chamber (4) Venting outer chamber (4-1) → Pinion rotates counterclockwise		Venting inner chamber (2) Exhaust outer chamber (4) Exhaust outer chamber (4-1) → Pinion rotates counterclockwise		Exhaust inner chamber (2) Exhaust outer chamber (4) Venting outer chamber (4-1) → Pinion rotates clockwise		
	5/3-way + 3/2-way valve								
									
	SOV1 = 14 SOV2 = 0		SOV1 = 12 SOV2 = 1		SOV1 = 12 SOV2 = 0		SOV1 = 0 SOV2 = 1		
	3 x 3/2-way valve								
									
	SOV = 1 SOV2 = 0 SOV3 = 0		SOV1 = 0 SOV2 = 1 SOV3 = 1		SOV1 = 0 SOV2 = 1 SOV3 = 0		SOV1 = 0 SOV2 = 0 SOV3 = 1		

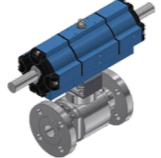
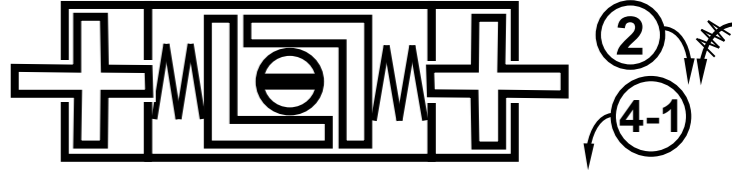

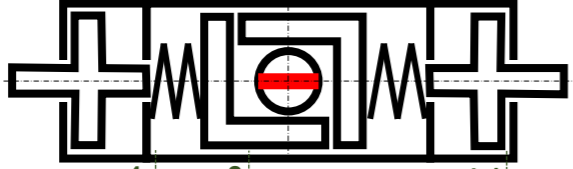
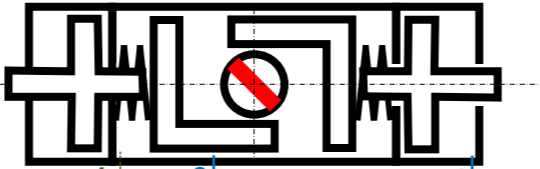
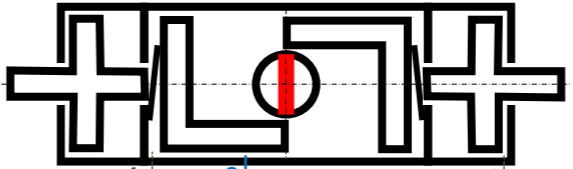
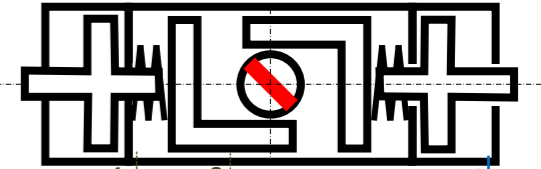
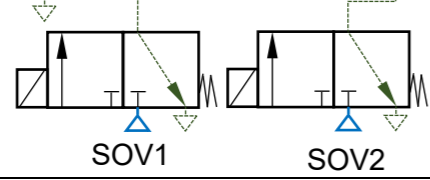
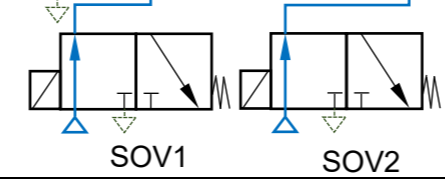
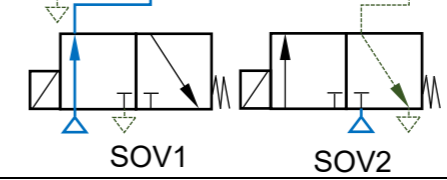
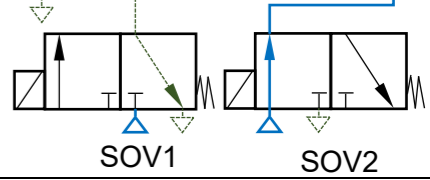
VARIANT	Effektive Direktion	Construction		Note	Type Plate			
03	LEFT	Standard		Pinion rotated 90 Piston rotated by 180 90° rotary actuator with switching positions 0°, 90° and infinitely variable intermediate position control via 3x 3/2-way Valve Piping required!!!	VARIANT 03 OPERATING DIRECTION LEFT 			
		Transverse						
	Switch Position 0°		Switch Position 0° ⇒ Intermediate Position		Switch Position 90°		Switch Position 90° ⇒ Intermediate Position	
	Exhaust inner chamber (2) Venting outer chamber (4) Exhaust outer chamber (4-1) → Pinion rotates counterclockwise		Venting inner chamber (2) Exhaust outer chamber (4) Venting outer chamber (4-1) → Pinion rotates clockwise		Venting inner chamber (2) Exhaust outer chamber (4) Exhaust outer chamber (4-1) → Pinion rotates clockwise		Exhaust inner chamber (2) Exhaust outer chamber (4) Venting outer chamber (4-1) → Pinion rotates counterclockwise	
	5/3-way + 3/2-way valve							
								
	Control valves SOV1 = 14 SOV2 = 0		Control valves SOV1 = 12 SOV2 = 1		Control valves SOV1 = 12 SOV2 = 0		Control valves SOV1 = 0 SOV2 = 1	
	3 x 3/2-way valve							
								
	Control valves SOV1 = 1 SOV2 = 0 SOV3 = 0		Control valves SOV1 = 0 SOV2 = 1 SOV3 = 1		Control valves SOV1 = 0 SOV2 = 1 SOV3 = 0		Control valves SOV1 = 0 SOV2 = 0 SOV3 = 1	

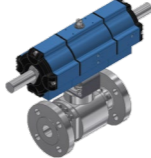
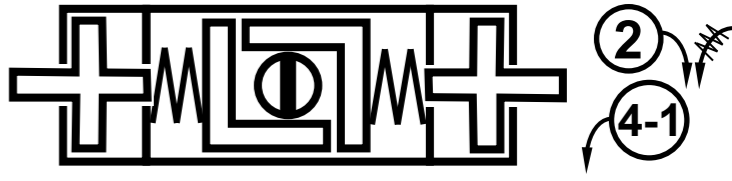

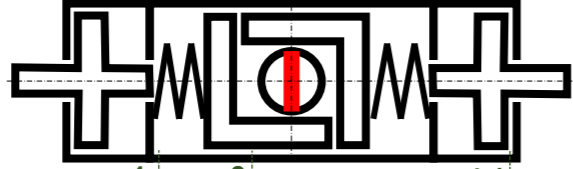
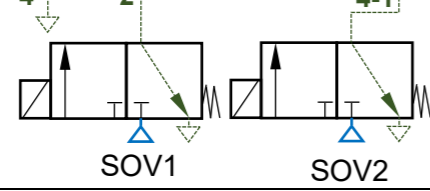
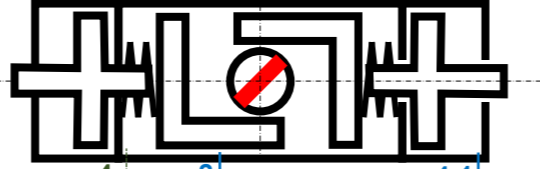
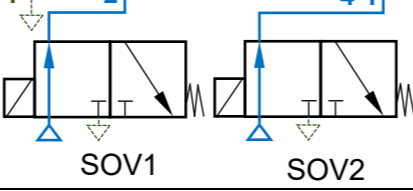
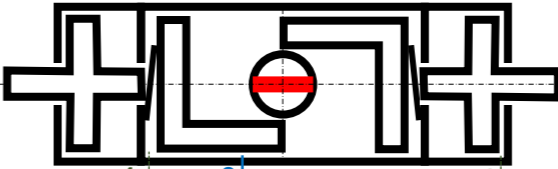
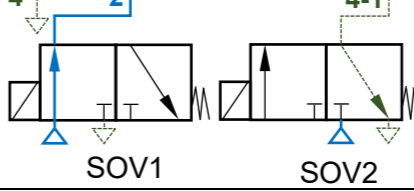
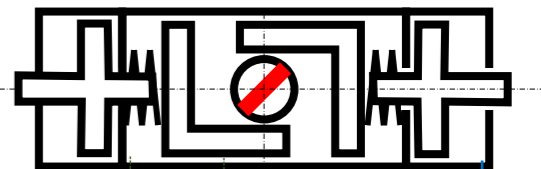
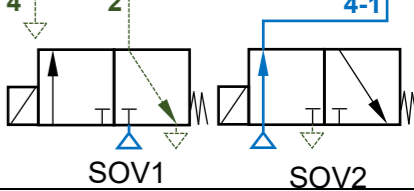
VARIANT	Effektive Direktion	Construction	Note	Type Plate		
04	LEFT	Standard 	Piston rotated by 180 90° rotary actuator with switching positions 0°, 90° and infinitely variable intermediate position for control via 3x 3/2-way Valve Piping required!!!	<p>VARIANT 04 OPERATING DIRECTION LEFT</p> 		
		Transverse 				
			Switch Position 0°	Switch Position 0° ⇒ Intermediate Position	Switch Position 90°	Switch Position 90° ⇒ Intermediate Position
			Exhaust inner chamber (2) Venting outer chamber (4) Exhaust outer chamber (4-1) → Pinion rotates counterclockwise	Venting inner chamber (2) Exhaust outer chamber (4) Venting outer chamber (4-1) → Pinion rotates clockwise	Venting inner chamber (2) Exhaust outer chamber (4) Exhaust outer chamber (4-1) → Pinion rotates clockwise	Exhaust inner chamber (2) Exhaust outer chamber (4) Venting outer chamber (4-1) → Pinion rotates counterclockwise
	5/3-way + 3/2-way valve					
						
			SOV1 = 14 SOV2 = 0	SOV1 = 12 SOV2 = 1	SOV1 = 12 SOV2 = 0	SOV1 = 0 SOV2 = 1
	3 x 3/2-way valve					
						
			SOV1 = 1 SOV 2 = 0 SOV 3 = 0	SOV 1 = 0 SOV 2 = 1 SOV 3 = 1	SOV 1 = 0 SOV 2 = 1 SOV 3 = 0	SOV 1 = 0 SOV 2 = 0 SOV 3 = 1

2. DAF – SINGLE-ACTING WITH CONTINUOUSLY ADJUSTABLE INTERMEDIATE POSITION

VARIANT	Effektive Direktion	Construction		Note	Type Plate		
01	RIGHT	Standard		Standard 90° rotary actuator with switching positions 0°, 90° and infinitely variable intermediate position for control via 2x 3/2-way Valve Piping required!!!	VARIANT 01 OPERATING DIRECTION RIGHT 		
		Transverse					
	Switch Position 0		Switch Position 0° ⇒ Intermediate Position		Switch Position 90°	Switch Position ⇒ Intermediate Position	
	Exhaust inner chamber (2) Exhaust outer chamber (4-1) → Relaxation spring packages → Pinion rotates clockwise		Venting inner chamber (2) Venting outer chamber (4-1) → Tension spring packages → Pinion rotates counterclockwise		Venting inner chamber (2) Exhaust outer chamber (4-1) → Tension spring packages → Pinion rotates counterclockwise	Exhaust inner chamber (2) Venting outer chamber (4-1) → Tension spring packages → Pinion rotates clockwise	
	2 x 3/2-way valve	  SOV1 SOV2 Control valves		  SOV1 SOV2 Control valves		  SOV1 SOV2 Control valves	  SOV1 SOV2 Control valves
SOV1 = 0		SOV2 = 0	SOV1 = 1	SOV2 = 1	SOV1 = 1	SOV2 = 0	SOV1 = 0

VARIANT	Effektive Direktion	Construction		Note	Type Plate			
02	RIGHT	Standard		Pinion rotated 90 90° rotary actuator with switching positions 0°, 90 and infinitely variable intermediate position with control via 2x 3/2-way Valve Piping required!!!	<p>VARIANT 02 OPERATING DIRECTION RIGHT</p> 			
		Transverse						
	Switch Position 0		Switch Position 0 ⇒ Intermediate Position		Switch Position 0 90°		Switch Position 0 90° ⇒ Intermediate Position	
	Exhaust inner chamber (2) Exhaust outer chamber (4-1) → Relaxation spring packages → Pinion rotates clockwise		Venting inner chamber (2) Venting outer chamber (4-1) → Tension spring packages → Pinion rotates counterclockwise		Venting inner chamber (2) Exhaust outer chamber (4-1) → Tension spring packages → Pinion rotates counterclockwise		Exhaust inner chamber (2) Venting outer chamber (4-1) → Tension spring packages → Pinion rotates clockwise	
	2 x 3/2-way valve	  SOV1 SOV2 Control valves		  SOV1 SOV2 Control valves		  SOV1 SOV2 Control valves		  SOV1 SOV2 Control valves
SOV1 = 0		SOV2 = 0	SOV1 = 1	SOV2 = 1	SOV1 = 1	SOV2 = 0	SOV1 = 0	SOV2 = 1

VARIANT	Effektive Direktion	Construction		Note	Type Plate				
03	LEFT	Standard		Piston rotated 180 Pinion rotated 90 90° rotary actuator with switching positions 0°, 90° and infinitely variable intermediate position for control via 2x 3/2-way Valve Piping required!!!	VARIANT 03 OPERATING DIRECTION LEFT 				
		Transverse							
	Switch Position 0		Switch Position 0 ⇒ Intermediate Position		Switch Position 0 90°		Switch Position 0 90° ⇒ Intermediate Position		
	Exhaust inner chamber (2) Exhaust outer chamber (4-1) → Relaxation spring packages → Pinion rotates counterclockwise		Venting inner chamber (2) Venting outer chamber (4-1) → Tension spring packages → Pinion rotates clockwise		Venting inner chamber (2) Exhaust outer chamber (4-1) → Tension spring packages → Pinion rotates clockwise		Exhaust inner chamber (2) Venting outer chamber (4-1) → Tension spring packages → Pinion rotates counterclockwise		
	2 x 3/2-way valve								
		 SOV1 SOV2 Control valves SOV1 = 0 SOV 2 = 0		 SOV1 SOV2 Control valves SOV 1 = 1 SOV 2 = 1		 SOV1 SOV2 Control valves SOV 1 = 1 SOV 2 = 0		 SOV1 SOV2 Control valves SOV 1 = 0 SOV 2 = 1	

VARIANT	Effektive Direktion	Construction		Note	Type Plate			
04	LEFT	Standard		Piston rotated 180 90° rotary actuator with switching positions 0°, 90 and infinitely variable intermediate position with control via 2x 3/2-way Valve Piping required!!!	<p>VARIANT 04 OPERATING DIRECTION LEFT</p> 			
		Transverse						
	Switch Position 0		Switch Position 0 ⇒ Intermediate Position		Switch Position 90°		Switch Position 90° ⇒ Intermediate Position	
	Exhaust inner chamber (2) Exhaust outer chamber (4-1) → Relaxation spring packages → Pinion rotates counterclockwise		Venting inner chamber (2) Venting outer chamber (4-1) → Tension spring packages → Pinion rotates clockwise		Venting inner chamber (2) Exhaust outer chamber (4-1) → Tension spring packages → Pinion rotates clockwise		Exhaust inner chamber (2) Venting outer chamber (4-1) → Tension spring packages → Pinion rotates counterclockwise	
	2 x 3/2-way valve	  SOV1 SOV2 Control valves		  SOV1 SOV2 Control valves		  SOV1 SOV2 Control valves		  SOV1 SOV2 Control valves
SOV1 = 0		SOV2 = 0	SOV1 = 1	SOV2 = 1	SOV1 = 1	SOV2 = 0	SOV1 = 0	SOV2 = 1