Rubflex



Power Transmission Solutions

Bell Housing PTO Clutch



Bell Housing + Dry friction plates

- Heavy-duty friction plates
- Pneumatic/Hydraulic/electronic
- Serialized design
- Integrated with gearbox Optional



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Bell Housing PTO Clutch offers a veriety of control modes.Throughout the various clutch types,parameters such as torque and speed remain consistent.

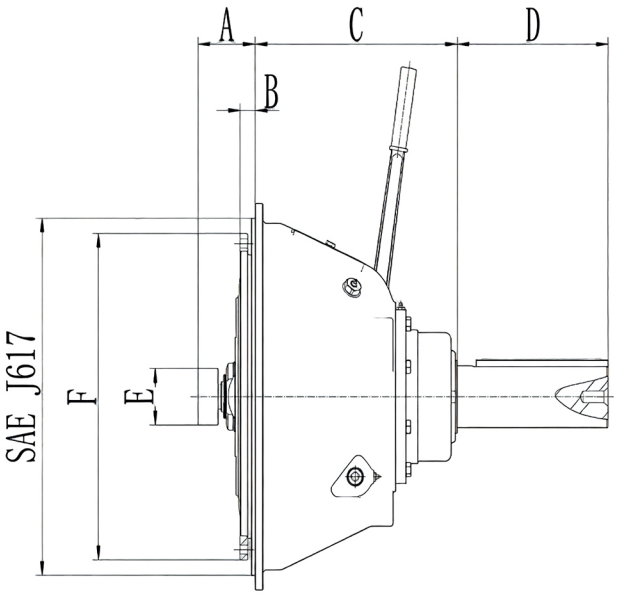
Control options and instructions				
Type	Code	No-pllot bearing	Self-locking	Self-locking
Manual operation	SP	Optional	√	——
Hydraulic (Single-actiing)	HC	Optional	——	√
Pneumatic (Single-actiing)	AC	Optional	——	√
Pneumatic cylinder (Extemal)	ASP	Optional	√	——
Pneumatic cylinder (Extemal)	ESP	Optional	√	——

Model	Housings	Input Torque	Input Speed
SP110	SAE 4	450	3500
SP111	SAE 3/2	618	3200
SP211	SAE 3/2	1233	3200
SP311	SAE 3/2	2200	3200
SP114	SAE 1/0	1100	2400
SP214	SAE 1/0	2200	2400
SP314	SAE 1/0	3300	2400
SP218	SAE 0	5423	2100
SP318	SAE 0	8137	2100
SP321	SAE 00	9128	1800

SP Series PTO - P Type

The SP Series PTO P type is a typical manually operated mechanical clutch requiring no auxiliary power source.





- **Heavy-duty friction plates**
- **Wide application & high adaptability**
- **Adjustable friction plates**
- **Suitable for side-load applications**
- **Optional E-motor input**

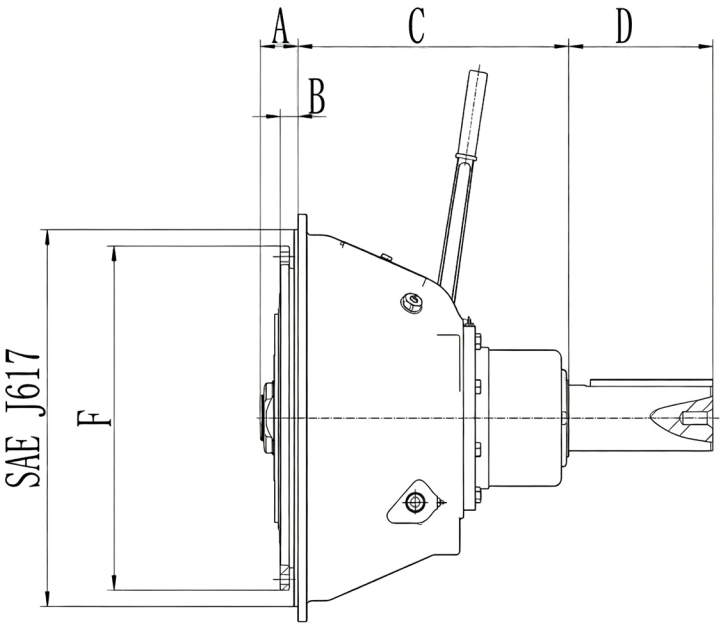
Model	Housings	A	B	C	D	φE	φF	Weight
SP110P	SAE 3	97	54	219	140	62	314.3	53kg
SP111P	SAE 3/2	97	39.6	252	165	72	352.4	85kg
SP211P	SAE 3/2	98	39.6	258	165	72	352.4	100kg
SP311P	SAE 3/2	98	39.6	353	254	72	352.4	140kg
SP114P	SAE 1/0	98	25.4	310	218	80	466.6	120kg
SP214P	SAE 1/0	98	25.4	339	254	80	466.6	161kg
SP314P	SAE 1/0	98	25.4	368	254	100	466.6	190kg
SP218P	SAE 0	98	15.7	424	254	100	647.6	340kg
SP318P	SAE 0	98	15.7	459	254	120	647.6	375kg
SP321P	SAE 00	98	15.7	505	254	130	673	530kg

SP Series PTO - W Type

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Based on the P type, the W type adopts a “No-pilot bearing” design for simpler installation. This PTO is suitable for in-line or side load applications.





- **No-pilot bearing design**
- **Heavy-duty friction plates**
- **Adjustable friction plates**
- **In-line or side load capability**
- **Optional E-motor input**

Model	Housings	A	B	C	D	φF	Weight
SP110W	SAE 4	68	54	251	97	314.3	53kg
SP111W	SAE 3	61	39.6	300	98	352.4	85kg
SP211W	SAE 3/1	61	39.6	306	98	352.4	100kg
SP311W	SAE 2	61	39.6	451	178	352.4	140kg
SP114W	SAE 1	55	25.4	408	178	466.6	120kg
SP214W	SAE 1	55	25.4	437	178	466.6	161kg
SP314W	SAE 1	55	25.4	466	178	466.6	190kg

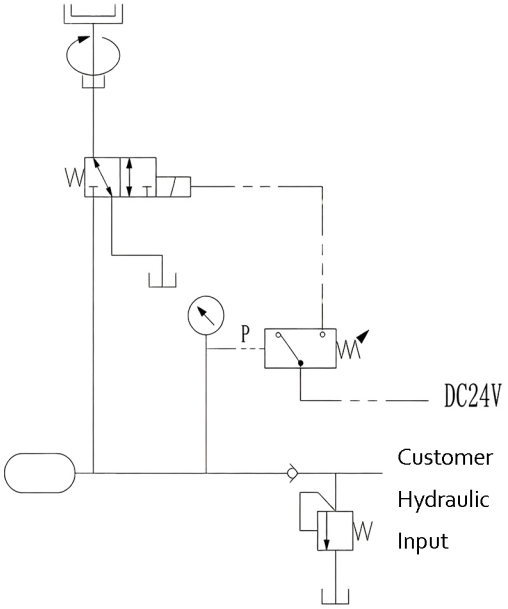
HC Series PTO

The HC series PTO can be remotely hydraulically controlled. It features a built-in single-acting hydraulic cylinder and requires only one hydraulic oil line for control.





- **Hydraulic remote control**
- **Precise engagement control**
- **Self-Adjusting disc pack**
- **Integrated hydraulic valve block**
- **Optional ECM module**



Hydraulic System:

1. The clutch is always open.
2. The solenoid valve can only be energized when the hydraulic pressure.
3. When the solenoid valve is energized,the clutch engages.
4. When the solenoid valve loses power,the clutch disengages.

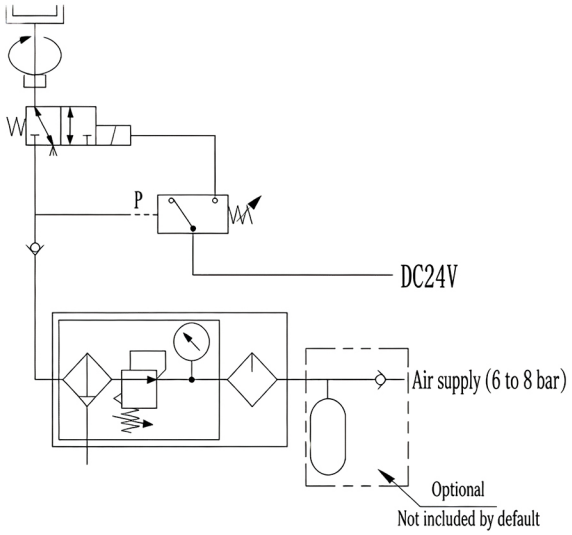
AC Series PTO

The AC series PTO can be remotely pneumatically controlled. It features a built-in single-acting pneumatic cylinder and requires only one compressed air line for control.





- **Pneumatic remote control**
- **Pneumatic actuation with simple structure**
- **Self-adjusting disc pack**
- **Integrated air valve block**
- **Optional ECM module**



Pneumatic System:

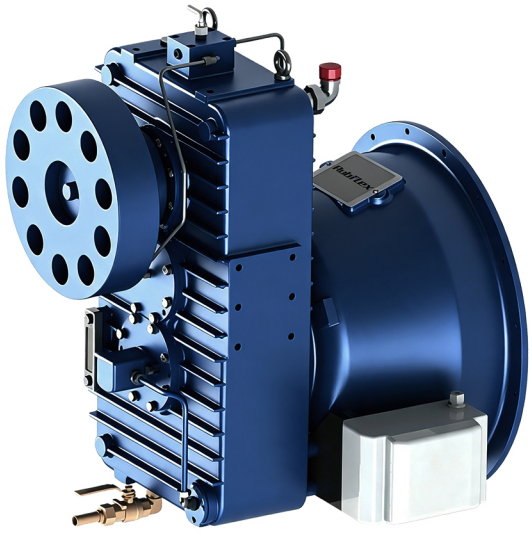
The clutch is normally open.

1. The solenoid valve can only be energized when air pressure reaches a specified level.
2. When the solenoid valve is energized, the clutch engages.
3. When the solenoid valve loses power, the clutch disengages.

ESP Series PTO

The ESP series PTO realizes electric control via an external-lymounted electric actuator on the bell housing. It features compact construction and simple control logic.





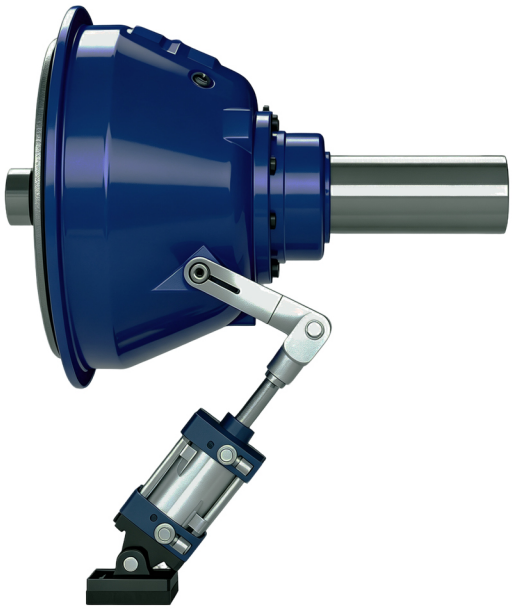
- **Electric remote control**
- **Compatible with all PTO types**
- **Compact structure**
- **Convenient power supply access**
- **DC / AC power options available**

Model	Allowable current of actuator (DC24V)	Allowable current of actuator (AC220V)	Power of actuator
ESP111	8A	1A	150W
ESP211	8A	1A	150W
ESP311	8A	1A	150W
ESP114	9A	1A	250W
ESP214	9A	1A	250W
ESP314	9A	1A	250W
ESP318	9A	1.25A	250W
ESP321	9A	1.25A	250W

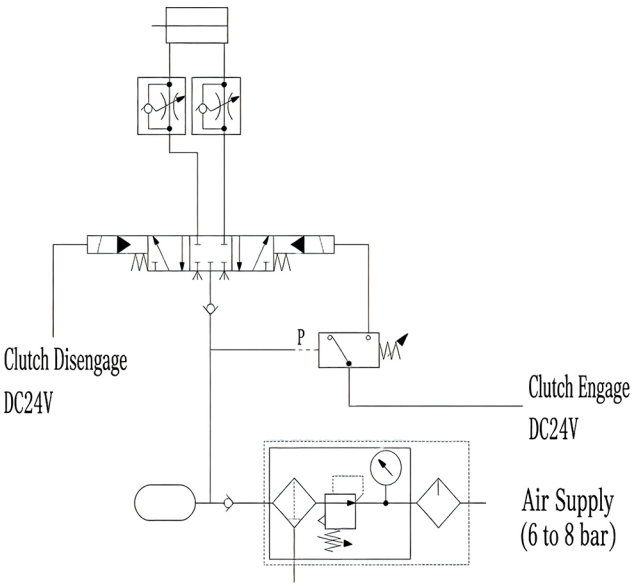
ASP Series PTO

The ASP series PTO is derived from the SP PTO. It is actuated by an external cylinder to realize remote control with no modification to the main structure.





- **External cylinders**
- **Flexible cylinder mounting**
- **Integrated air valve block**
- **Optional electric cylinders**



Pneumatic System:

The clutch is normally disengaged.

1. The solenoid valve shall only be energized after the air pressure reaches the specified value.
2. The clutch engages when the solenoid valve is energized.
3. The clutch disengages when the solenoid valve is de-energized.

Application Data Sheet

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Company		Contact Name	
Date		City	

Prime Mover

Rated power		Kw	Flywheel Housing		Bolt Holes		Notes:
Rated speed		rpm	Flywheel		Bolt Holes		
Max. torque		N·M	Flywheel Pilot Bearing				

Description of Duty

Output speed		rpm	Max. torque		N·M	Operating hours per day		hours
Ambient temperature								
Description or Duty Class Cycle								
Output shaft	☐In-line load		Flang/Cardan shaft/Coupling					
	☐Side load		Chain /Timing/Pulley					
			Preload for Side Load：			Tension for Side Load:		
			Drawing for Side Load Dimension					

离合器类型需求描述

Optional	Type	Control Method	Self-Adjusting Disc Pack	Self-locking
☐	SP	Manual	Regular adjustments	Self-locking
☐	HC	Hydraulic	Self-Adjusting	Non-self-locking
☐	AC	Pneumatic	Self-Adjusting	Non-self-locking
☐	ESP	Electric	Regular adjustments	Self-locking
☐	ASP	Pneumatic	Regular adjustments	Self-locking

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