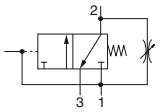
P31, P32, P33 SERIES

Combined Soft Start / Dump Valves

P31T & P32T Combined Soft Start / Dump Valves

- Modular design with 1/4" or 1/2" integral ports (NPT & BSPP)
- Provides for the safe introduction of pressure
- The 3-way, 2-position function automatically dumps downstream pressure on the loss of pilot signal
- Adjustable slow start
- Solenoid or air pilot options
- High flow & exhaust capability
- Silencer included
- Safety exhaust valves categories 1 & 2



Parker Global Series Combined Soft Start / Dump Valves, provide for the safe introduction of pressure to machines or systems. Soft Start / Dump Valves when set, allow the pressure to gradually build to the set point before fully opening to deliver full flow at line pressure.

The controlled introduction of pressure can be an important safety factor and prevent damage to tooling when air pressure is introduced at machine or system start up.

To maintain these units in the open position a pilot supply to the air pilot operated version or an electrical signal to the solenoid operated version must be maintained. The valve will automatically dump when the holding signal is removed.

Port Size	Description	Weight lbs (kg)	Part Number
1/4"	120VAC Solenoid & cable plug	0.8 (0.37)	**P31TA12SGNC1FN**
1/4"	24VDC Solenoid & cable plug	0.9 (0.41)	**P31TA12SGNC2CN**
1/2"	120VAC 30mm coil & cable plug incl.	1.9 (0.87)	**P32TA14SCNA3GN**
1/2"	24VDC 30mm coil & cable plug incl.	2.0 (0.91)	**P32TA14SCNA2CN**
1/2"	External air pilot operated	1.9 (0.87)	**P32TA14PPN**

Operating Information

Flow capacity*:	P31T	36 scfm (17 dm^3/s, ANR)
	P32T	97 scfm (46 dm^3/s, ANR)
Temperature range (max)†:		
Solenoid operated		14°F to 122°F (-10°C to 50°C)
Air pilot operated		-4°F to 176°F (-20°C to 80°C)
Pressure (max):		
Solenoid operated		150 psig (10 bar)
Air pilot operated		250 psig (17 bar)
Operating pressure (min):		44 psig (3 bar)
Fluid:		Compressed air
Ports:	Air pilot	1/8
	Exhaust	P31T - 1/4; P32T - 1/2
	Gauge	P31T - 1/8; P32T - 1/4

* Inlet pressure 91.3 psig (6.3 bar), inlet pressure and 14.5 psig (1 bar) pressure drop.

† Air supply must be dry enough to avoid ice formation at temperatures below 35.6°F (2°C). Snap pressure: Full flow when downstream pressure reaches 50% of the inlet pressure.

Ordering Information:

P31TA	1	2	S	G	N	C	2CN

Solenoid type only

Body Size

Soft Start / Dump Valve (1/4")	P31TA
Soft Start / Dump Valve (1/2")	P32TA

Thread Type

BSPP	1
NPT	9

Port Size

Global Modular Mini (1/4")	2
Global Modular Compact (1/2")	4

Note:
P32 unit used for both P32 & P33 series

Most Popular

Pilot Type

P	External Air Pilot
S	Solenoid Pilot

No external air pilot option for P31.

Actuator Interface

G	15mm Solenoid (P31 Only)
C	30mm Solenoid
P	Threaded Air Pilot

Solenoid Type

C	15mm (P31 series only)
A	30mm CNOMO Coil (P32 only)
D	30mm CNOMO Coil (M12 connection) (P32 only)

Solenoid Voltage

2CN	24VDC Non Locking Manual Override
3GN	120VAC Non Locking Manual Override
1FN	120VAC Non Locking Manual Override (P31 series only)