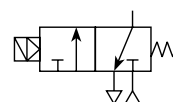


Dump Valve



Symbol



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

Remotely operated dump valves automatically shut off upstream pressure and exhaust the downstream pressure when the pilot pressure is released.

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.

Options:

P31DA [] [] [] [] **N**

Body size
 Dump valve (1/4") **P31DA**
 Dump valve (1/2") **P32DA**

Thread type
 BSPP **1**
 NPT **9**

Port size
 Global modular mini (1/4") **2**
 Global modular compact (1/2") **4**

Actuator interface
 G 15mm solenoid (P31 only)
 C 30mm solenoid
 P Threaded Air Pilot

Pilot type
 P External air pilot
 S Solenoid pilot

Solenoid type only

Solenoid voltage
 000 Solenoid / Coil not fitted
 2CN 24VDC non locking manual override
 3GN 120VAC non locking manual override
 1FN 120VAC non locking manual override (P31 series only)

Solenoid type
 0 None (For P32 series - operator is fitted to valve)
 C 15mm (P31 series only)
 A 30mm CNOMO coil (P32 only)
 D 30mm CNOMO coil (M12 connection) (P32 only)

Note:
P32 unit used for both P32 & P33 series
Bold items are most common.

Port size	Description	Flow dm ³ /s (scfm)	Max. bar (psig)	Height mm (inches)	Width mm (inches)	Depth mm (inches)	Weight kg (lbs)	Part number†
1/4"	Solenoid operated (not included)	17 (36)	10 (150)	115.6 (4.5)	57 (2.2)	40 (1.5)	0.37 (0.8)	P31DA12SGN0000
1/4"	24VDC Solenoid & cable plug	17 (36)	10 (150)	166‡ (6.5)	57 (2.2)	40 (1.5)	0.41 (0.9)	P31DA12SGNC2CN
1/4"	External air pilot operated	17 (36)	17 (250)	115.6 (4.5)	57 (2.2)	40 (1.5)	0.37 (0.8)	P31DA12PPN
1/2"	Solenoid operated (not included)	51 (108)	10 (150)	162.5‡ (6.3)	75 (2.9)	57.2 (2.2)	0.69 (1.5)	P32DA14SCN0000
1/2"	24VDC 30mm coil & cable plug incl.	51 (108)	10 (150)	227.5‡ (8.9)	75 (2.9)	57.2 (2.2)	0.91 (2.0)	P32DA14SCNA2CN
1/2"	External air pilot operated	51 (108)	17 (250)	162.5‡ (6.3)	75 (2.9)	57.2 (2.2)	0.87 (1.9)	P32DA14PPN

‡ Includes exhaust silencer

† Standard part numbers shown in bold. For other models refer to Options chart above.

Technical Information

Fluid:	Compressed air
Max. pressure solenoid operated:	10 bar (150 psig)
Max. pressure air pilot operated:	17 bar (250 psig)
Min. operating pressure:	3 bar (44 psig)
Temperature Max.* solenoid operated:	-10°C to 50°C (14°F to 122°F)
Temperature Max.* air pilot operated:	-20°C to 80°C (-4°F to 176°F)
Air pilot port:	1/8"
Exhaust port:	P31D - 1/4" / P32D - 1/2"
Gauge port:	P31D - 1/8" / P32D - 1/4"

Typical flow with 6.3 bar inlet pressure and 1 bar pressure drop:

P31D	17 dm ³ /s (36 scfm)
P32D	51 dm ³ /s (108 scfm)

* Air supply must be dry enough to avoid ice formation at temperatures below +2°C
Snap pressure: Full flow when downstream pressure reaches 50% of the inlet pressure

Material Specifications

Body:	Aluminum
Body cover:	Polyester
Seals:	Nitrile NBR

Mounting Brackets

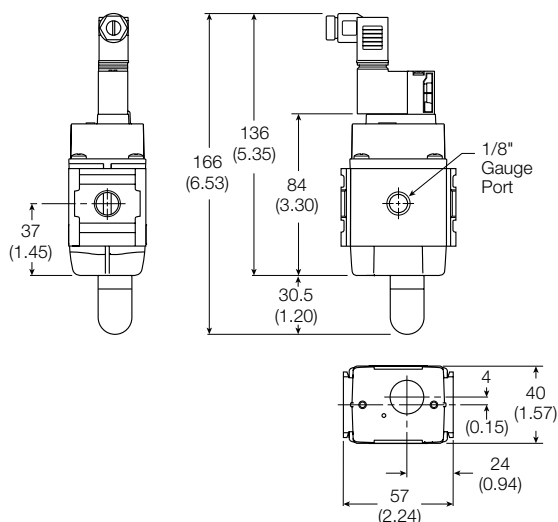
Description	Part number
L-bracket mounting kit	P3HKA00ML
Foot bracket mounting kit	P3HKA00MC

Note:

For solenoid operators and cable plugs (connectors) see pages 74 to 75.

Dimensions mm (inches)

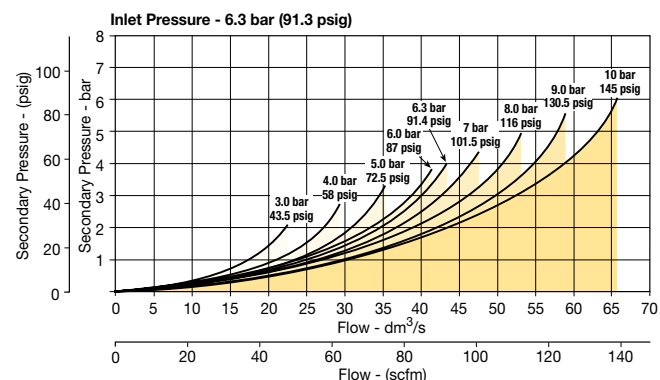
P31D



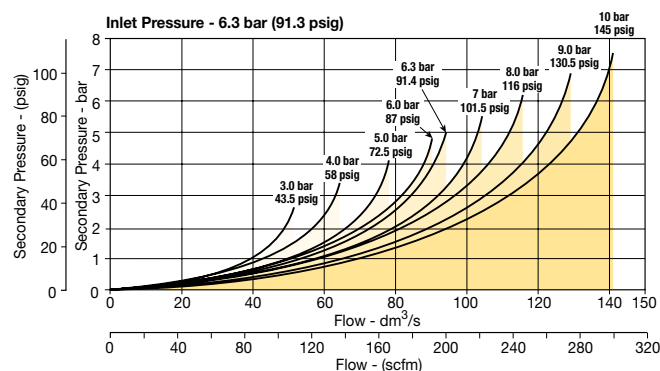
For mounting brackets see page 86.

Flow Charts

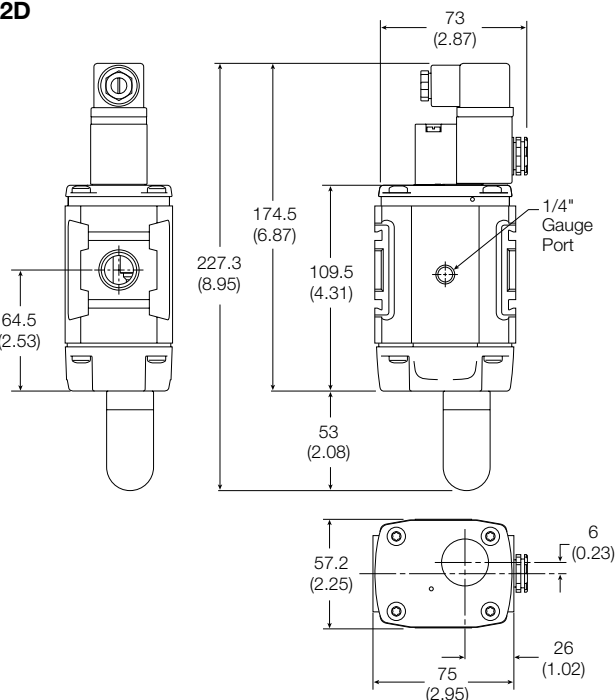
P31DA 1/4" Remote Dump Valve



P32DA 1/2" Remote Dump Valve



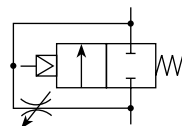
P32D



Soft Start Valve



Symbol



- Modular design with 1/4" or 1/2" integral ports (NPT & BSPP)
- The 2-way, 2-position function provides for the safe introduction of pressure
- Adjustable slow start
- Solenoid or air pilot options
- High flow

Parker Global Series Soft Start Valves, provide for the safe introduction of pressure to machines or systems. Soft Start Valves, 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.

Note: Soft Start Valves must be installed downstream of a 3/2 valve with exhaust capability

Options:

P31SA

Body size	
Soft start	P31SA
Soft start	P32SA

Thread type	
BSPP	1
NPT	9

Port size	
Global modular mini (1/4")	2
Global modular compact (1/2")	4

Actuator interface	
0	Internal Pilot
G	15mm solenoid (P31 only)
C	30mm solenoid
P*	Threaded air pilot

Pilot type	
P	External air pilot
S	Solenoid pilot
Y	Internal air pilot

Solenoid type only

Solenoid voltage	
000	Solenoid / Coil not fitted
2CN	24VDC non locking manual override
3GN	120VAC non locking manual override
1FN	120VAC non locking manual override (P31 series only)

Note:
P32 unit used for both P32 & P33 series
Bold items are most common.

Port size	Description	Flow dm ³ /s (scfm)	Max. bar (psig)	Height mm (inches)	Width mm (inches)	Depth mm (inches)	Weight kg (lbs)	Part number†
1/4"	Solenoid operated (not included)	17 (36)	10 (150)	115.6 (4.5)	57 (2.2)	40 (1.5)	0.37 (0.8)	P31SA12SGN0000
1/4"	24VDC Solenoid & cable plug	17 (36)	10 (150)	166.0 (6.5)	57 (2.2)	40 (1.5)	0.41 (0.9)	P31SA12SGNC2CN
1/4"	Internal air pilot operated	17 (36)	17 (250)	115.6 (4.5)	57 (2.2)	40 (1.5)	0.37 (0.8)	P31SA12Y0N
1/4"	External air pilot (1/8" threaded)	17 (36)	17 (250)	115.6 (4.5)	57 (2.2)	40 (1.5)	0.37 (0.8)	P31SA12PPN
1/2"	Solenoid operated (not included)	48 (101)	10 (150)	162.5 (6.3)	88 (3.4)	57.2 (2.28)	0.87 (1.5)	P32SA14SCN0000
1/2"	24VDC 30mm coil & cable plug	48 (101)	10 (150)	227.5 (8.9)	88 (3.4)	57.2 (2.28)	0.90 (2.0)	P32SA14SCNA2CN
1/2"	Internal air pilot operated	48 (101)	17 (250)	162.5 (6.3)	75 (2.9)	57.2 (2.28)	0.90 (2.0)	P32SA14Y0N
1/2"	External air pilot (1/8 threaded)	48 (101)	17 (250)	162.5 (6.3)	75 (2.9)	57.2 (2.28)	0.87 (1.5)	P32SA14PPN

† Standard part numbers shown in bold. For other models refer to Options chart above.

Technical Information

Fluid:	Compressed air
Max. pressure solenoid operated:	10 bar (150 psig)
Max. pressure air pilot operated:	17 bar (250 psig)
Min. operating pressure:	3 bar (44 psig)
Temperature Max.* solenoid operated:	-10°C to 50°C (14°F to 122°F)
Temperature Max.* air pilot operated:	-20°C to 80°C (-4°F to 176°F)
Air pilot port:	1/8"
Gauge port:	P31S - 1/8" / P32S - 1/4"
Typical flow with 6.3 bar inlet pressure and 1 bar pressure drop:	P31S 17 dm³/s (36 scfm) P32S 48 dm³/s (101 scfm)

* Air supply must be dry enough to avoid ice formation at temperatures below +2°C
Snap pressure: Full flow when downstream pressure reaches 50% of the inlet pressure

Material Specifications

Body:	Aluminum
Body cover:	Polyester
Seals:	Nitrile NBR

Mounting Brackets

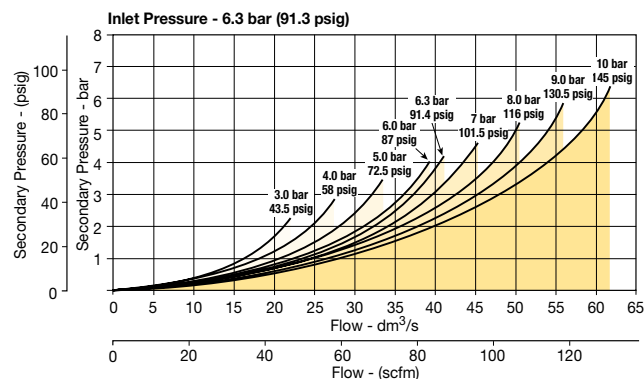
Description	Part number
L-bracket mounting kit	P3HKA00ML
Foot bracket mounting kit	P3HKA00MC

Note:

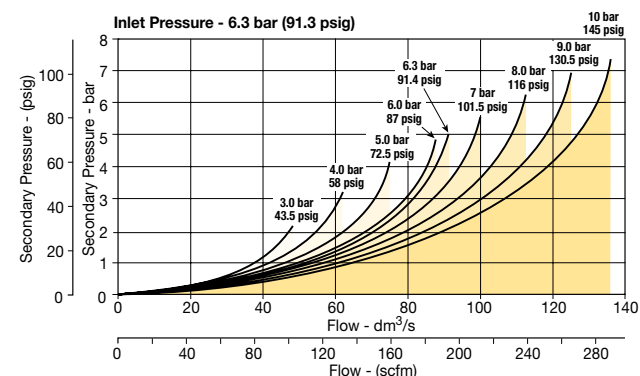
For solenoid operators and cable plugs (connectors) see pages 74 to 75.

Flow Charts

P31SA 1/4" Soft Start Valve

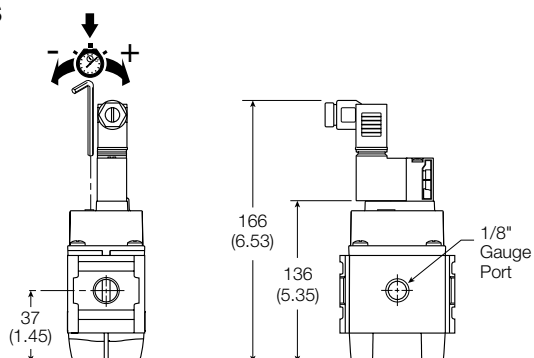


P32SA 1/2" Soft Start Valve

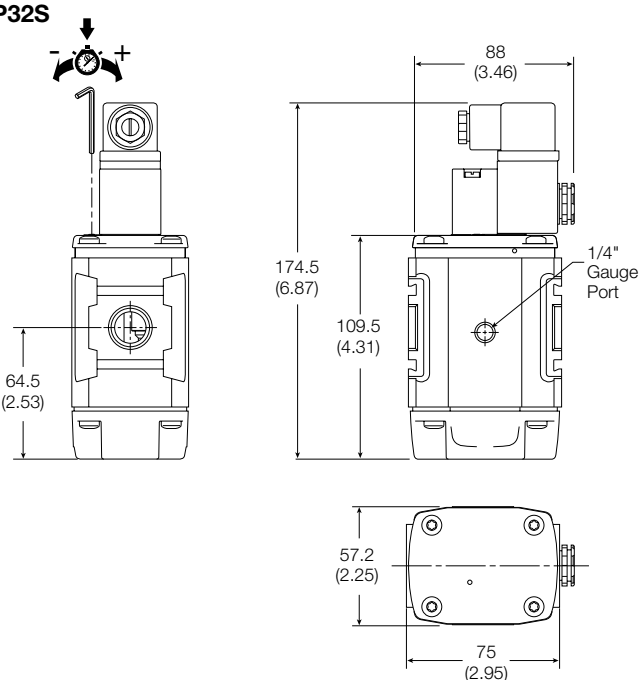


Dimensions mm (inches)

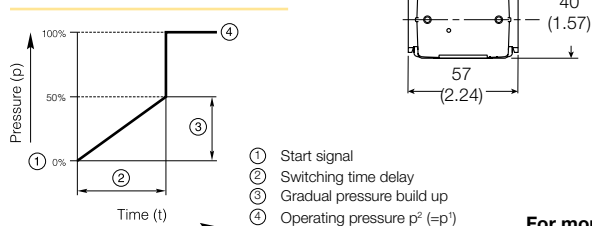
P31S



P32S



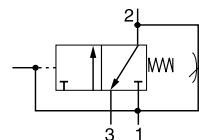
Soft Start Function:



For mounting brackets see page 86.

Combined Soft Start / Dump Valve

Symbol



- 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

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.

Options:

P31TA [] [] [] [] **N**

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

Actuator interface

G 15mm solenoid (P31 only)
C 30mm solenoid
P Threaded air pilot

Pilot type

P External air pilot
S Solenoid pilot

Solenoid type only

Solenoid voltage	
000	Solenoid / Coil not fitted
2CN	24VDC non locking manual override
3GN	120VAC non locking manual override
1FN	120VAC non locking manual override (P31 series only)

Solenoid type

0	None (For P32 series - Operator is fitted to valve)
C	15mm (P31 series only)
A	30mm CNOMO coil (P32 only)
D	30mm CNOMO coil (M12 connection) (P32 only)

Note:
P32 unit used for both
P32 & P33 series
Bold items are most common.

Port size	Description	Flow [‡] dm ³ /s (scfm)	Max. bar (psig)	Height mm (inches)	Width mm (inches)	Depth mm (inches)	Weight kg (lbs)	Part number [†]
1/4"	Solenoid operated (not included)	17 (36)	10 (150)	115.6 (4.5)	57 (2.2)	40 (1.5)	0.37 (0.8)	P31TA12SGN0000
1/4"	24VDC Solenoid & cable plug	17 (36)	10 (150)	166 [‡] (6.5)	57 (2.2)	40 (1.5)	0.41 (0.9)	P31TA12SGNC2CN
1/4"	External air pilot operated	17 (36)	17 (250)	115.6 (4.5)	57 (2.2)	40 (1.5)	0.37 (0.8)	P31TA12PPN
1/2"	Solenoid operated (not included)	46 (97)	10 (150)	162.5 [‡] (6.3)	88 (3.4)	57.2 (2.2)	0.87 (1.9)	P32TA14SCN0000
1/2"	24VDC 30mm coil & cable plug incl.	46 (97)	10 (150)	227.5 [‡] (8.9)	88 (3.4)	57.2 (2.2)	0.91 (2.0)	P32TA14SCNA2CN
1/2"	External air pilot operated	46 (97)	17 (250)	162.5 [‡] (6.3)	75 (2.9)	57.2 (2.2)	0.87 (1.9)	P32TA14PPN

[‡] Includes exhaust silencer. Flow with 6.3 bar (91.3 psig) inlet and 1 bar (14.5 psig) pressure drop.

[†] Standard part numbers shown in bold. For other models refer to Options chart above.