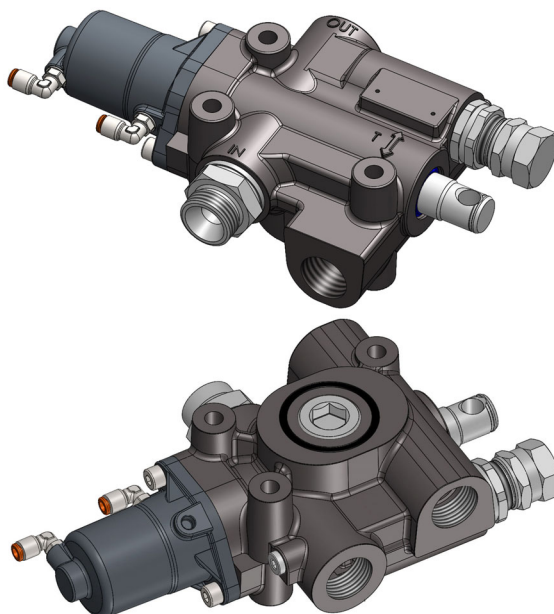
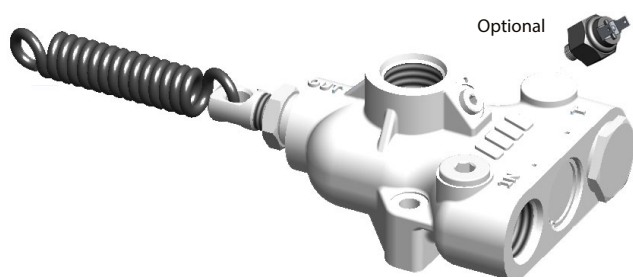




• RUNSTOP 200 SAE 16	pag. 03
• RUNSTOP 250 SAE 20	pag. 05
• MODULAR 150 DIRECT - MECHANICAL SAE 12	pag. 07
• MODULAR 150 DIRECT - PNEUMATIC SAE 12	pag. 09
• MODULAR 250 2 pressure SAE 16	pag. 11
• MODULAR 250 2 pressure SAE 12 - NPT	pag. 13
• MODULAR 250 DIRECT SAE 16 - NPT	pag. 15
• MODULTRUCK 250 DIRECT SAE 16	pag. 17
• PNEUMATIC DIVERter SAE 16-NPT	pag. 19



End of stroke valve especially designed for trailers and semi-trailers either with 1 hose or 2 hoses configurations. The special hydraulic scheme allows the valve to be used for either open or closed center circuits. Furthermore it prevents the cylinder from any pressure peaks.

The innovative and compact design makes the fitting easier and cost effective.

- Mechanical runstop valve.

- Flow up to 52,8 gpm.

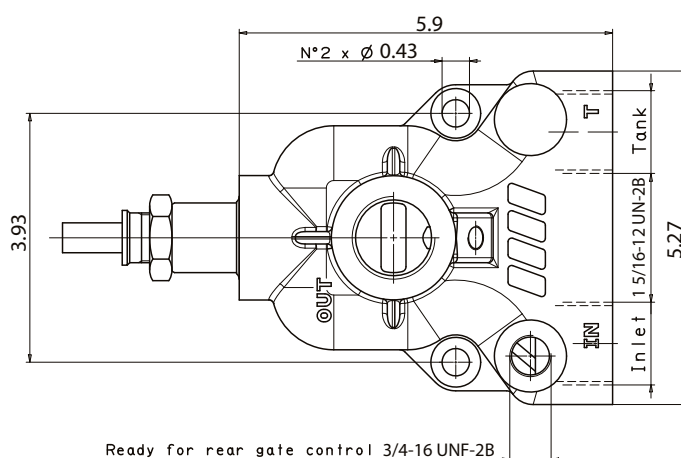
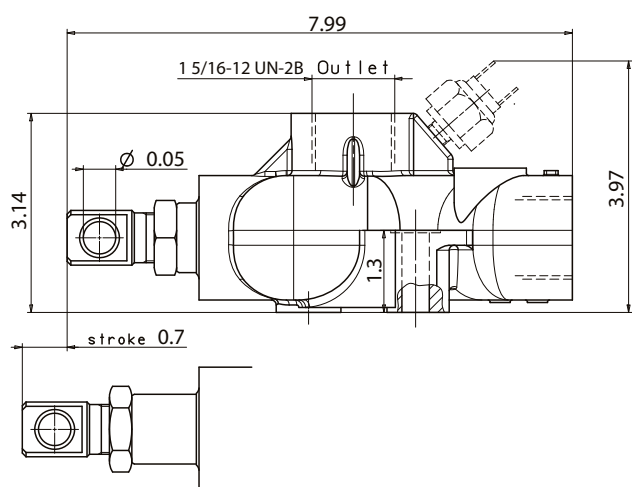
- Cast iron body resistant to pressure up to 5801 psi.

- Body c/w anti-corrosion coating and Nickel spool.

- Pressure switch option.

- High-resistance anti-shock spring.

Dimensions

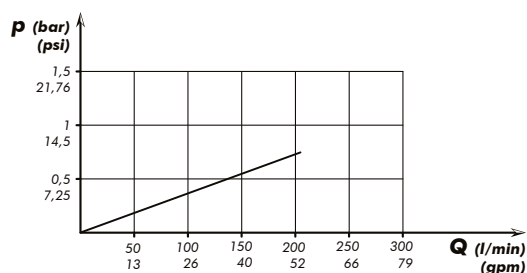


inch dimensions

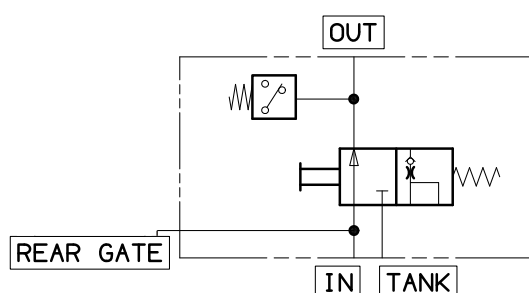
Technical features

Tipping valve type	Order code	Max. pressure	Flow	Weight
RUNSTOP 200	12193500227	5076 psi	52,8 gpm	10,6 lb

Pressure drops



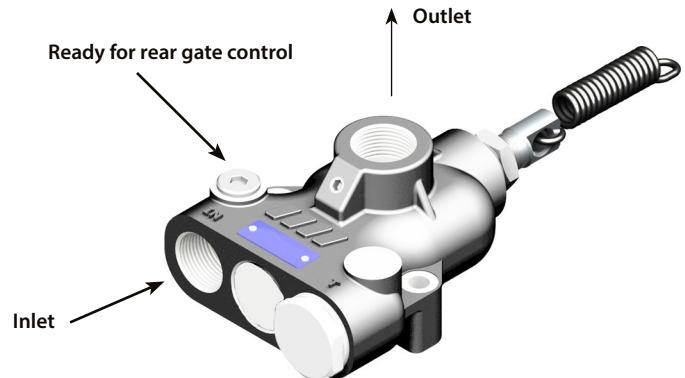
Functional diagram



Seal kit: 1219004000

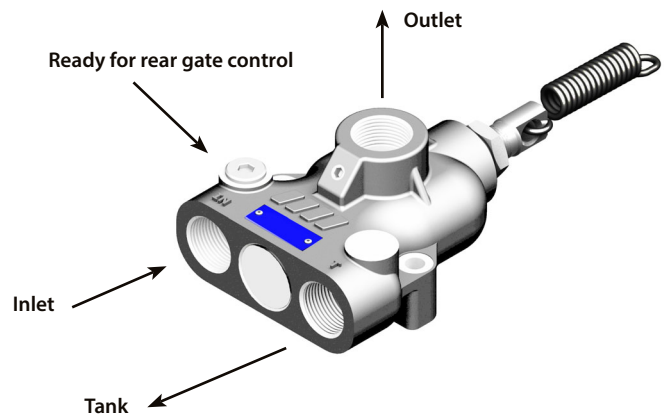
1 hose configuration

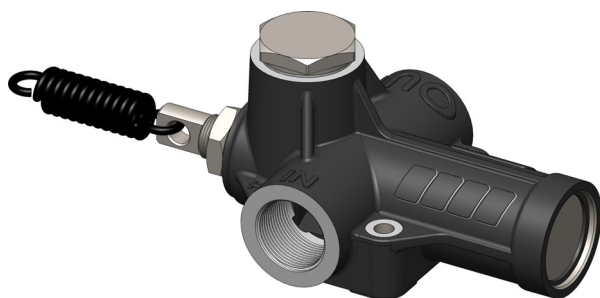
By this configuration the RUNSTOP valve interrupts the oil flow to the cylinder and the delivery is diverted to the outlet through the safety valve of the main tipping valve. In this case we recommend to use tipping valves c/w piloted safety valves like our modular pilot valve series.



2 hoses configuration

By this configuration the RUNSTOP valve interrupts the oil flow to the cylinder and the delivery is diverted to the outlet through the second pipe connected to the oil tank.



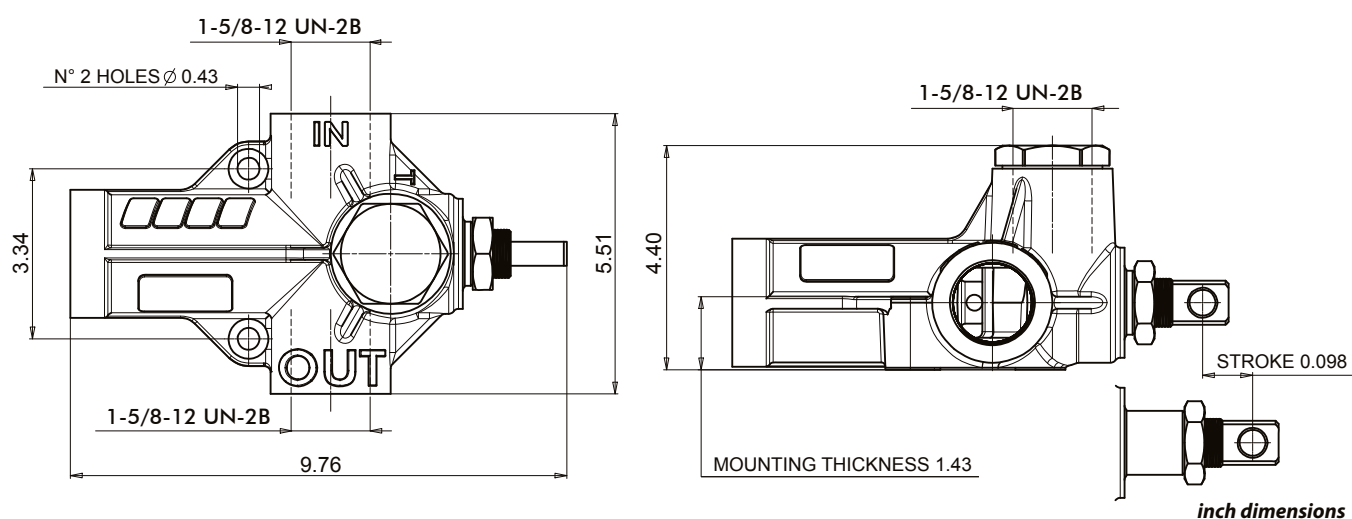


End of stroke valve especially designed for semi-trailers either with 1 hose or 2 hoses applications.

The special hydraulic scheme allows the valve to be used as either open center or closed center configurations. Furthermore it prevents the cylinder from any pressure peaks.

- Flow up to 66 gpm.
- Cast iron body for pressures up to 5801 psi.
- Body c/w anti-corrosion coating and Nickel spool.
- High-resistance anti-shock spring.

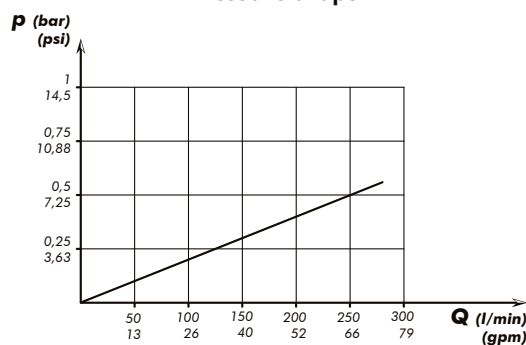
Dimensions



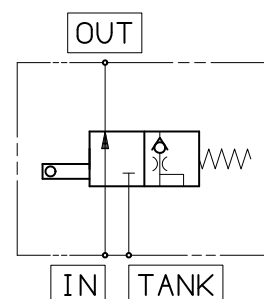
Technical features

Tipping valve type	Order code	Pressure		Flow	Weight
		In service	Max. peak		
RUNSTOP 250	12193500254	2610 psi	3626 psi	66 gpm	12 lb

Pressure drops



Functional diagram

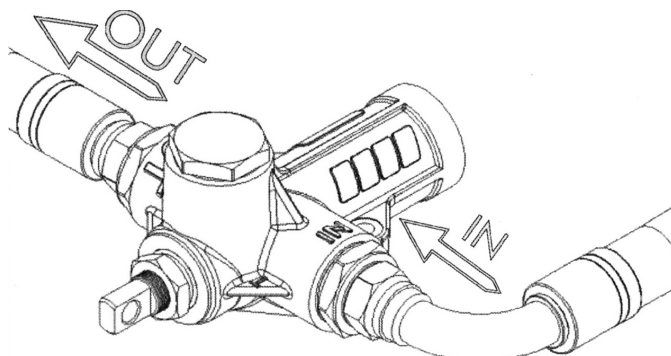


Seal kit: 1219004055

1 hose configuration

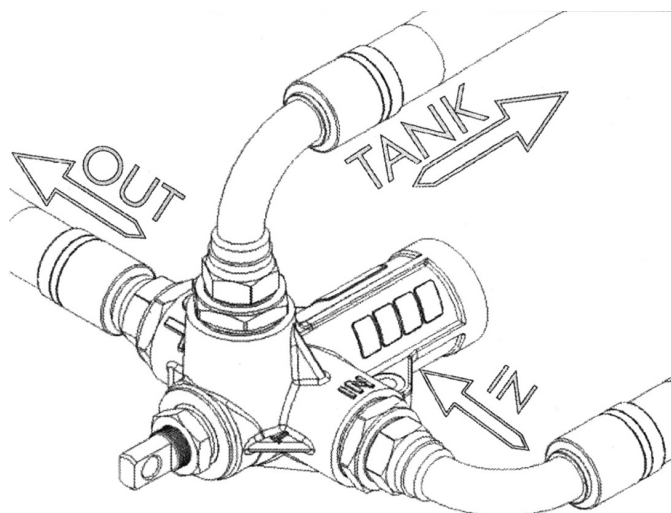
By this configuration the RUNSTOP valve interrupts the oil flow to the cylinder and the delivery is diverted to the outlet through the safety valve of the tipping valve. In this case we recommend to use tipping valves c/w piloted safety valves like our.

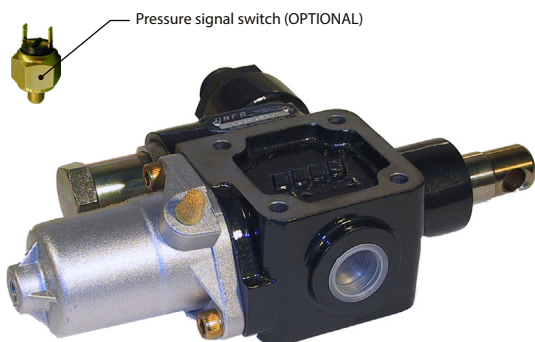
MODULAR-250 CARTRIDGE
P/N 12100800283



2 hoses configuration

By this configuration the RUNSTOP valve interrupts the oil flow to the cylinder and the delivery is diverted to the outlet through the second pipe connected to the oil tank.

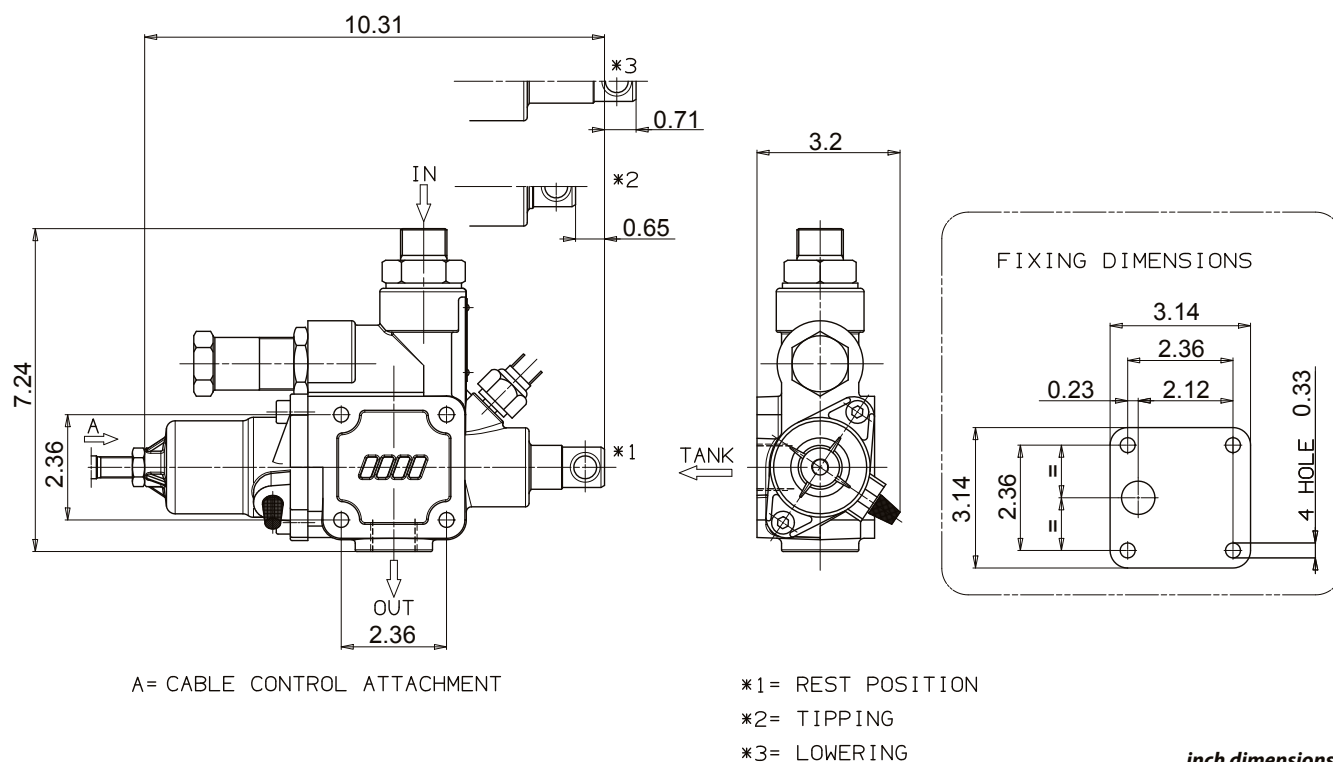




Proportional mechanical tipping valve operated by **cable controls series LINEA or LINEA BLOCK** to suit medium-heavy duty tipper trucks. Operated by proportional cab control.

- Built-in check and adjustable safety valves (direct type).
- Nodular cast-iron body for pressure up to 5801 psi.
- Either Chassis or tank (DSM kit) mounting options.
- Mechanical Direct End-of-stroke with anti-shock spring.
- Predisposition for pressure signal switch.
- Galvanized body and nickel spool.
- Guaranteed for oil temperature range -25÷80 °C, viscosity range 12÷100 cSt and oil filtering 25 µm.

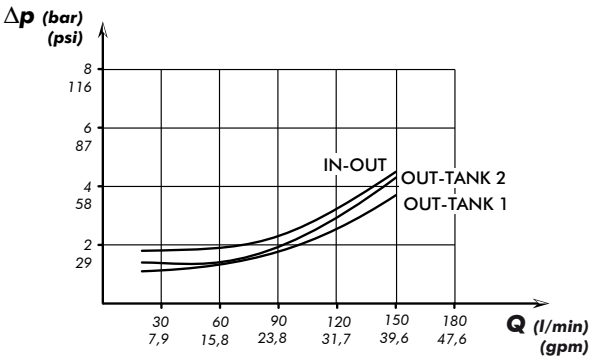
Dimensions



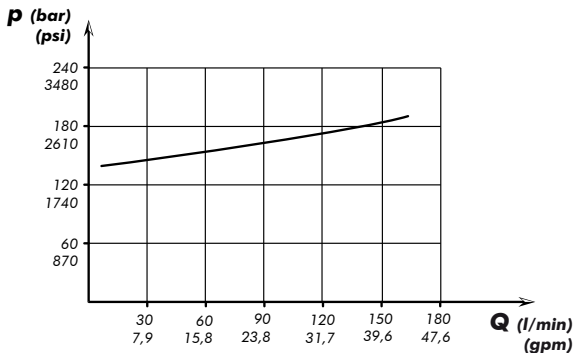
Technical features

Tipping valve type	Order code	IN	TANK	OUT	Pressure values		Flow	Weight
		ISO 228	ISO 228	ISO 228	Standard	Max.		
MODULAR 150 CE	12192200777	1 5/16-12 UN-2B	1 1/16-12 UN-2B	ISO 228	2320 psi	4061 psi	39,6 gpm	12,8 lb

Tipping valve pressure drops

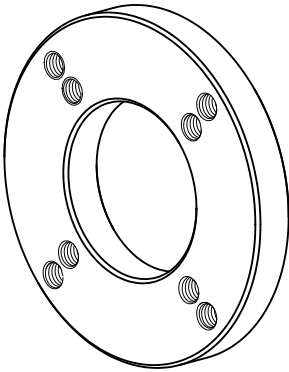


p-Q operating curve for pressure relief valves

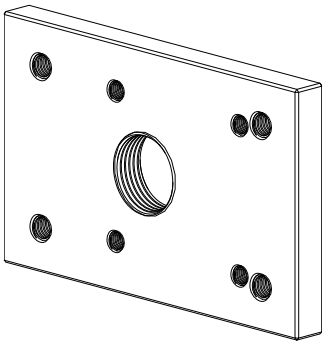


The graph refers to oil type ISO VG 46 a 50°

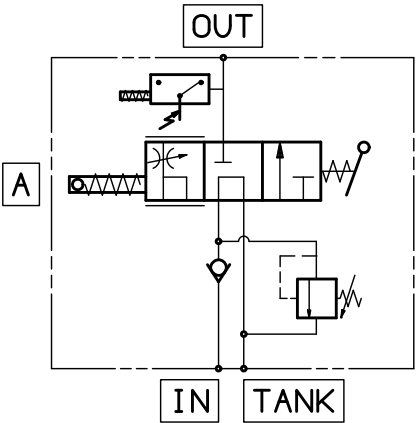
Mounting plate for tank
12199100112



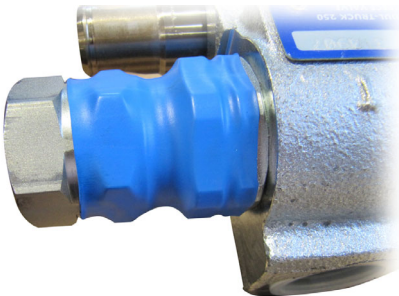
Mounting plate for tank
12199100194



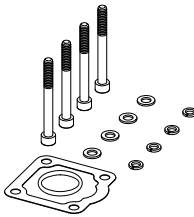
Functional diagram



OPTIONAL
Safety sealing
12190100110

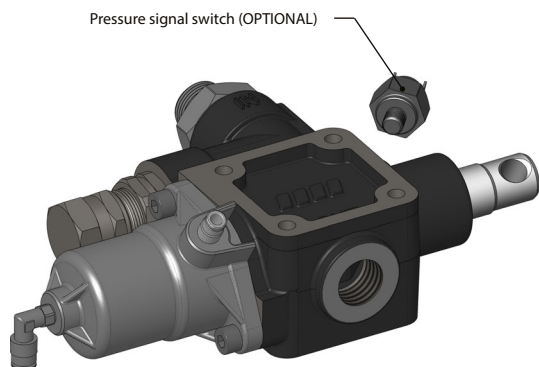


Must be ordered separately



Mounting kit p/n: 12199400459	
Q.	Description
4	Screw M8 TCE L=80
4	Washer M8
4	Spring washet M8
1	Gasket

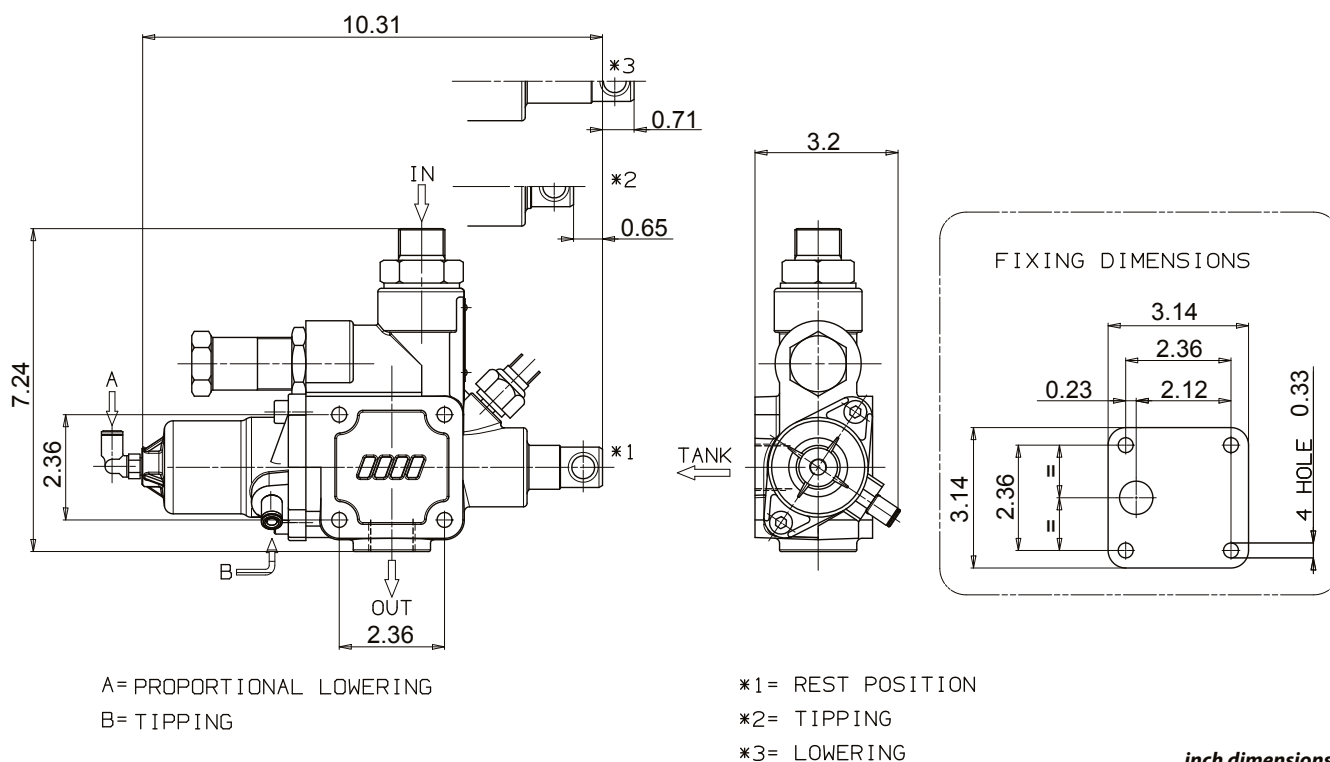
Seal kit: 12190001209



Proportional pneumatic tipping valve to suit medium-heavy duty tipper trucks. Operated by proportional cab control.

- Built-in check and adjustable safety valves (direct type).
- Nodular cast-iron body for pressure up to 5801 psi.
- Either Chassis or tank (DSM kit) mounting options.
- Mechanical Direct End-of-stroke with anti-shock spring.
- Predisposition for pressure signal switch.
- Galvanized body and nickel spool.
- Guaranteed for oil temperature range -25÷80 °C, viscosity range 12÷100 cSt and oil filtering 25 µm.

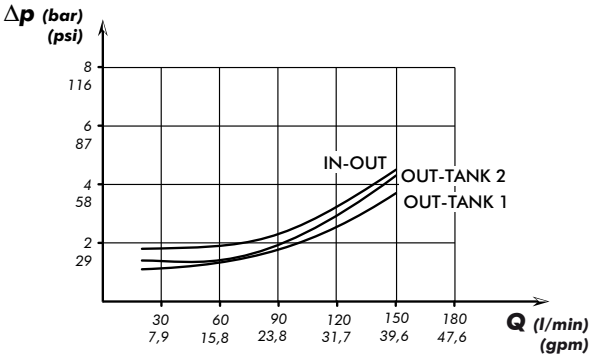
Dimensions



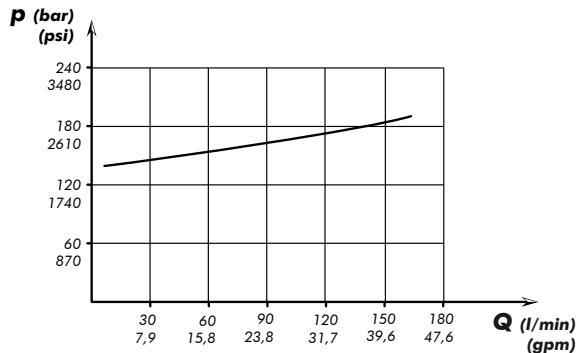
Technical features

Tipping valve type	Order code	IN	TANK	OUT	Pressure values		Flow	Weight
		ISO 228	ISO 228	ISO 228	Standard	Max.		
MODULAR 150 CE	12100850372	1 1/16-12 UN-2B			2320 psi	4061 psi	39,6 gpm	12,8 lb

Tipping valve pressure drops

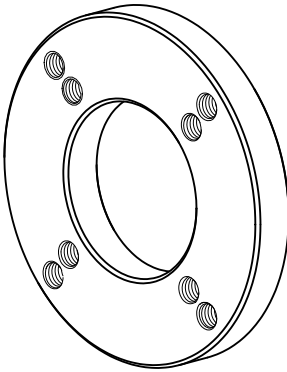


p-Q operating curve for pressure relief valves

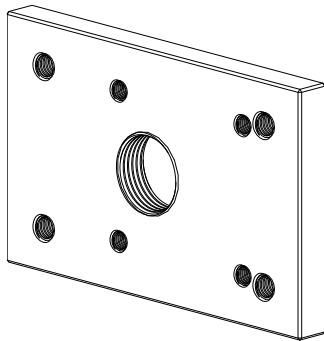


The graph refers to oil type ISO VG 46 a 50°

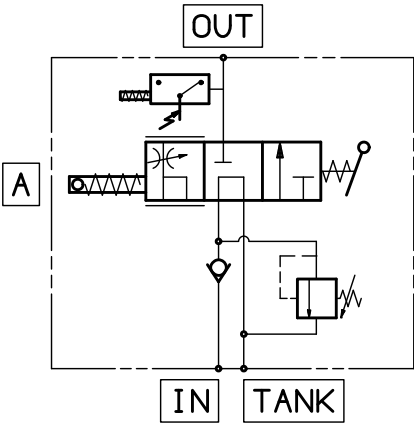
Mounting plate for tank
12199100112



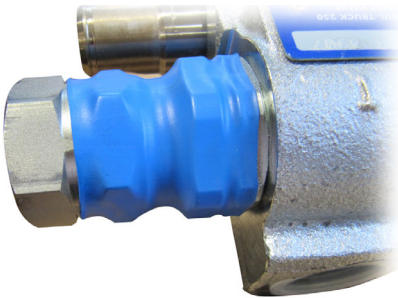
Mounting plate for tank
12199100194



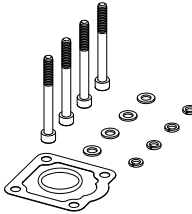
Functional diagram



OPTIONAL
Safety sealing
12190100110



Must be ordered separately



Mounting kit p/n: 12199400459	
Q.	Description
4	Screw M8 TCE L=80
4	Washer M8
4	Spring washet M8
1	Gasket

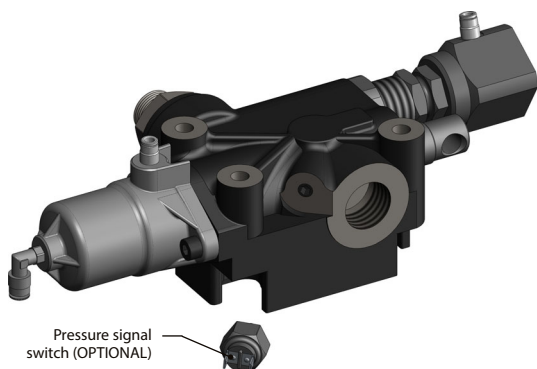
Seal kit: 12190001209

Proportional pneumatic 2 pressures valve

SAE 16 thread

MODULAR 250 2PP

121922

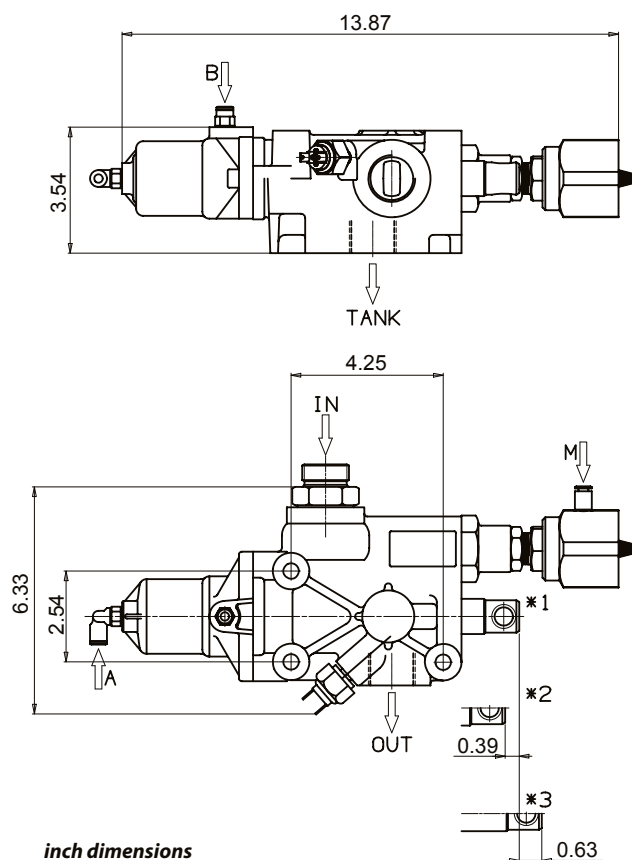


Proportional pneumatic tipping valve suitable for large oil flow applications especially designed for heavy-duty tipper bodies/semi-trailers with two different working pressures which can be selected pneumatically. Operated by proportional cab control.

Open center hydraulic scheme according to CE standards.

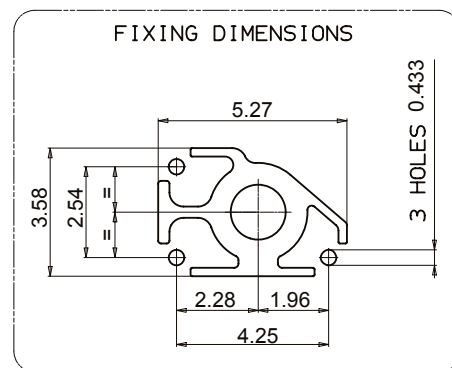
- Built-in check valve and dual pressure adjustable relief valve (pilot type).
- Nodular cast-iron body for pressure up to 5801 psi.
- Either Chassis or tank mounting options.
- Mechanical Direct End-of-stroke.
- Predisposition for pressure signal switch.
- Galvanized body and nickel spool.
- Guaranteed for oil temperature range -25÷80 °C, viscosity range 12÷100 cSt and oil filtering 25 µm.

Dimensions



inch dimensions

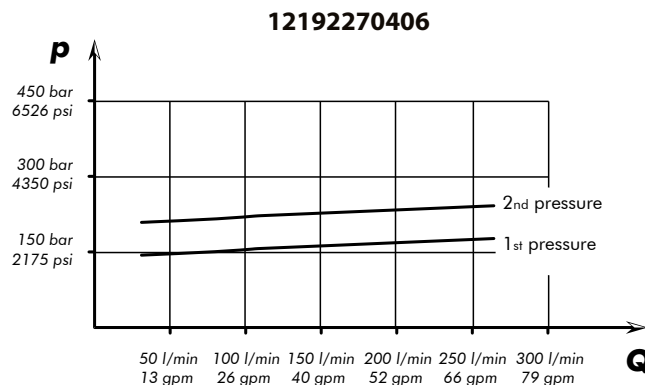
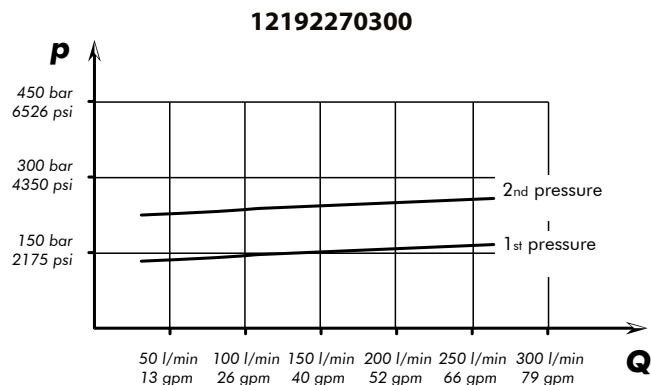
- A= PROPORTIONAL LOWERING *1= REST POSITION
B= TIPPING *2= TIPPING
M= MEDIUM PRESSURE *3= LOWERING



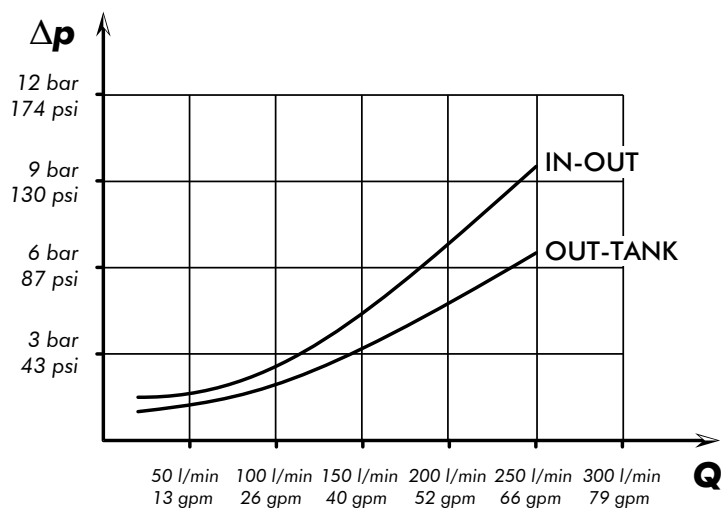
Technical features

Tipping valve type	Order code	IN	TANK	OUT	Pressure values		Flow	Weight
		ISO 228	ISO 228	ISO 228	1st	2nd		
MODULAR 250 CE	12192270300	1 5/16-12 UN-2A	1 5/16-12 UN-2B	2030 psi	3335 psi	66 gpm	15 lb	
	Standard setting of the 1 st pressure is at - 21 gpm.							
	2 nd pressure value is set consequently.							
	2200 psi			3000 psi				
12192270406				Standard setting of the 1 st pressure is at - 25 gpm.				
				2 nd pressure value is set consequently.				

p-Q operating curve for pressure relief valves

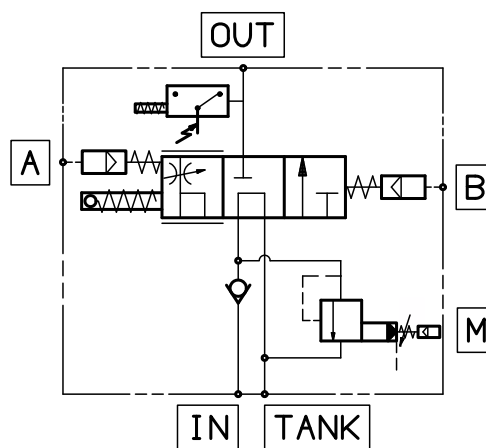


Tipping valve pressure drops

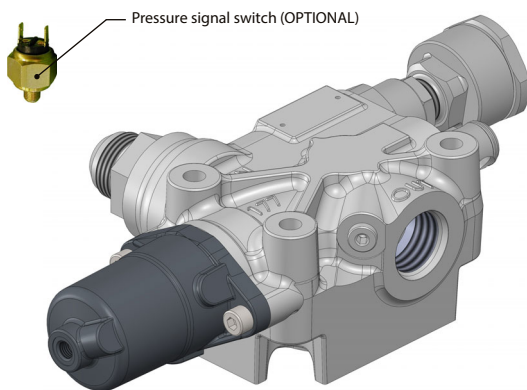


The graph refers to oil type ISO VG 46 a 50°

Functional diagram



Seal kit: 12190003305

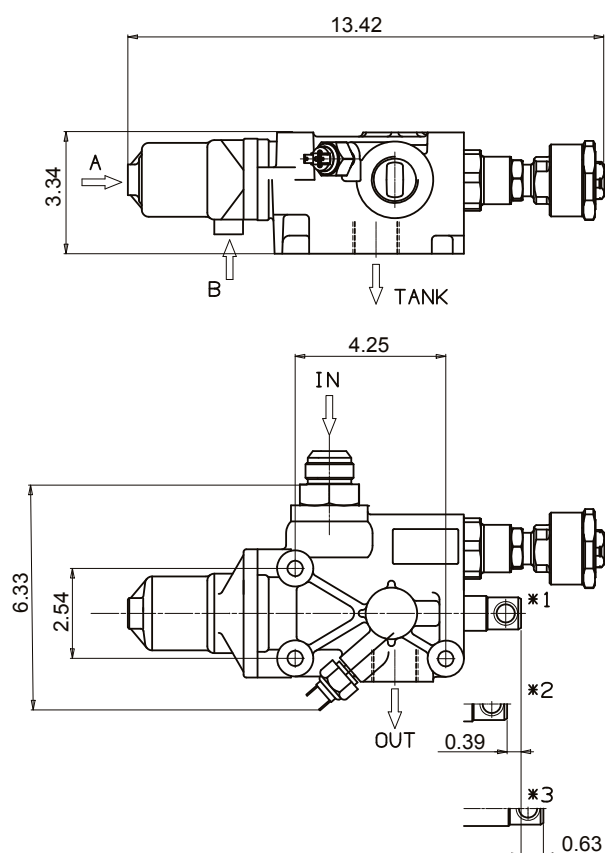


Proportional pneumatic tipping valve suitable for large oil flow applications especially designed for heavy-duty tipper bodies/semi-trailers with two different working pressures which can be selected pneumatically. Operated by proportional cab control.

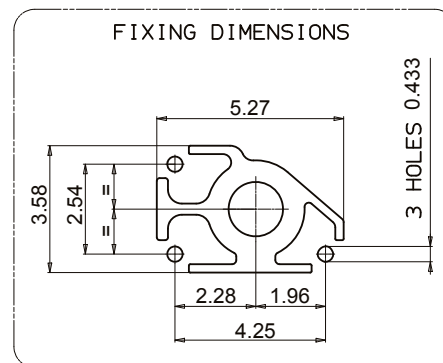
Open center hydraulic scheme according to CE standards.

- Built-in check valve and dual pressure adjustable relief valve (pilot type).
- Nodular cast-iron body for pressure up to 5801 psi.
- Either Chassis or tank mounting options.
- Mechanical Direct End-of-stroke.
- Predisposition for pressure signal switch.
- Galvanized body and nickel spool.
- Guaranteed for oil temperature range -25÷80 °C, viscosity range 12÷100 cSt and oil filtering 25 µm.

Dimensions



- A= PROPORTIONAL LOWERING *1= REST POSITION
B= TIPPING *2= TIPPING
M= MEDIUM PRESSURE *3= LOWERING

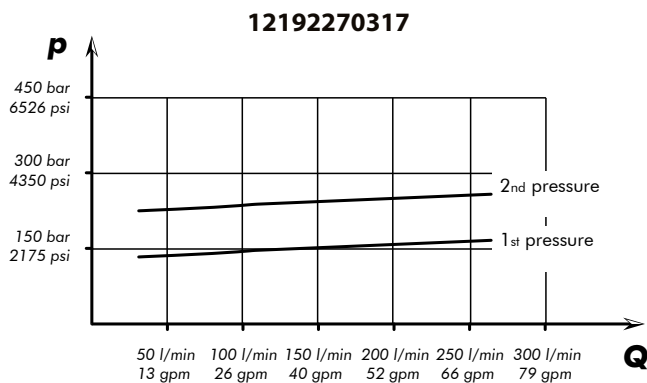


inch dimensions

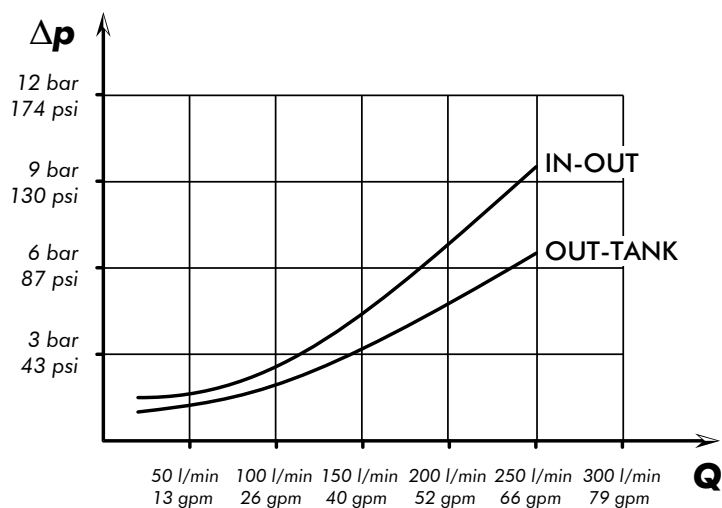
Technical features

Tipping valve type	Order code	IN	TANK	OUT	A - B - M	Pressure values		Flow	Weight
		ISO 228	ISO 228	ISO 228		1st	2nd		
MODULAR 250 CE	12192270317	1 5/16-12 UN-2A	1 5/16-12 UN-2B		1/8 NPT	2030 psi	3335 psi	66gpm	15 lb
						Standard setting of the 1 st pressure is at <u>-21 gpm.</u> 2 nd pressure value is set consequently.			

p-Q operating curve for pressure relief valves

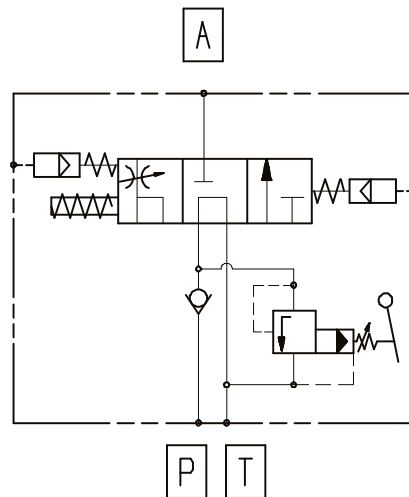


Tipping valve pressure drops

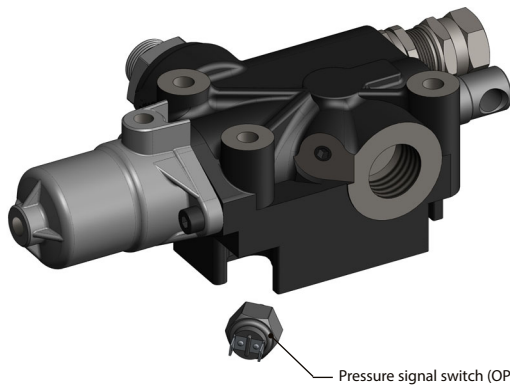


The graph refers to oil type ISO VG 46 a 50°

Functional diagram



Seal kit: 12190003305

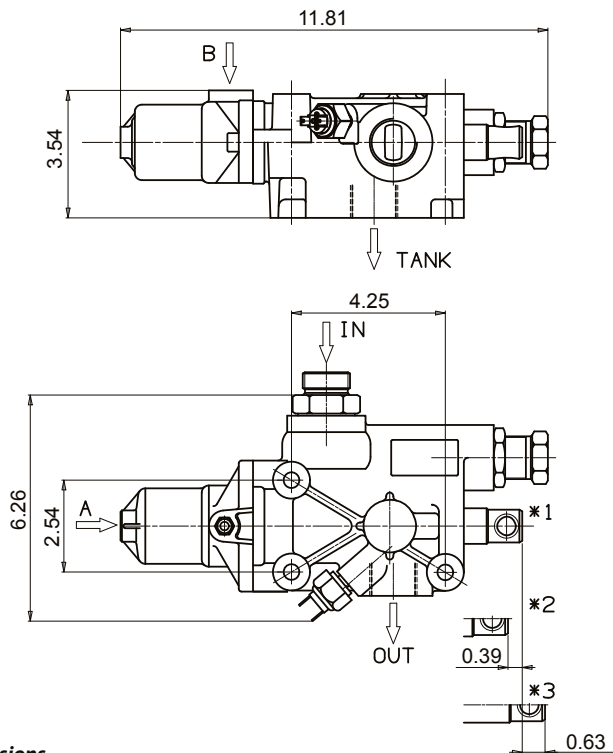


Pressure signal switch (OPTIONAL)

Proportional pneumatic tipping valve suitable for large oil flow applications especially designed for heavy-duty tipper bodies, off-road trucks and semi-trailers. Operated by proportional cab control. Open center hydraulic scheme according to CE standards.

- Built-in check and adjustable relief valves (direct type).
- Nodular cast-iron body for pressure up to 5801 psi.
- Either Chassis or tank mounting options.
- Mechanical Direct End-of-stroke.
- Predisposition for pressure signal switch.
- Galvanized body and nickel spool.
- Guaranteed for oil temperature range -15+110 °C, viscosity range 12÷100 cSt and oil filtering 25 µm.

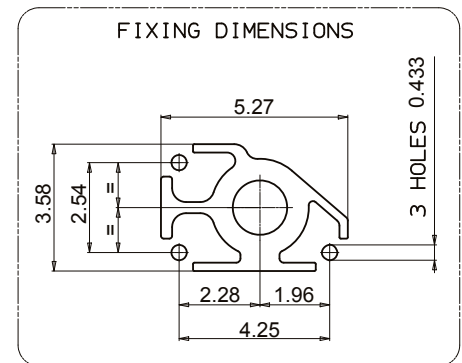
Dimensions



inch dimensions

A = 1/8 NPT Proportional lowering
B = 1/8 NPT Tipping

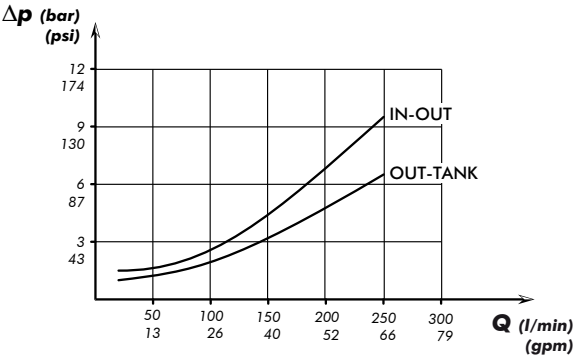
- * 1 = Rest position
- * 2 = Tipping
- * 3 = Lowering



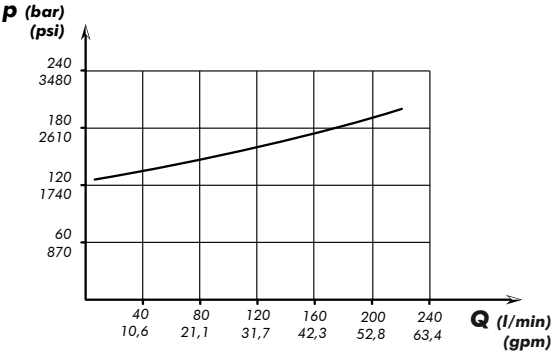
Technical features

Tipping valve type	Order code	IN	TANK	OUT	Pressure values		Flow	Weight
		ISO 228	ISO 228	ISO 228	Standard	Max.		
MODULAR 250 CE	12192200517	1 5/16-12 UN-2A	1 5/16-12 UN-2B		2320 psi	4061 psi	66 gpm	15 lb

Tipping valve pressure drops

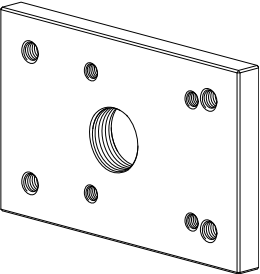


p-Q operating curve for pressure relief valves

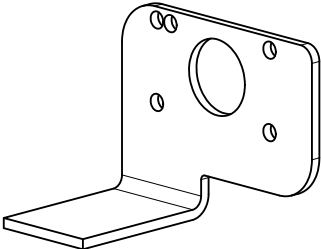


The graph refers to oil type ISO VG 46 a 40°

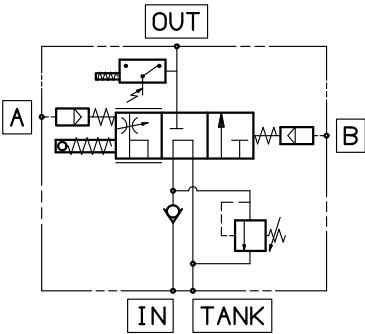
Mounting plate for tank
12199100194



Mounting plate for chassis
12199100069



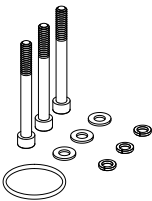
Functional diagram



OPTIONAL
Safety sealing
12190100110

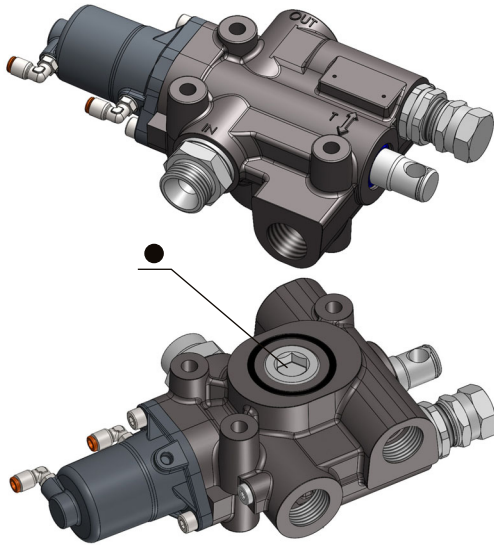


Must be ordered separately



Mounting kit p/n: 12199400502	
Q.	Description
3	Screw M10 TCE L= 100
3	Washer M10
3	Spring washet M10
1	O-ring

Seal kit: 12190002002

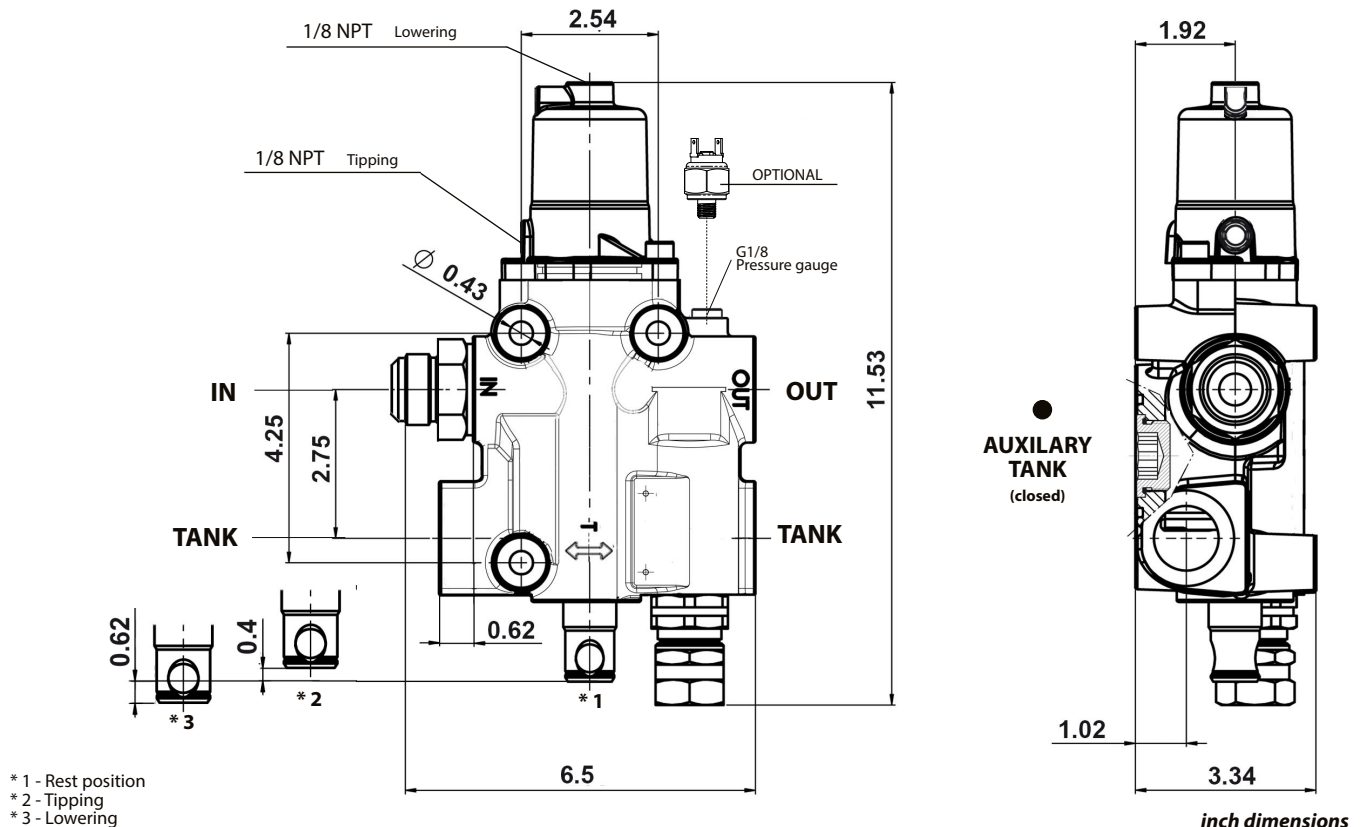


Pneumatically operated hydraulic tipping valve especially designed for tippers on semitrailers connected to tractor trucks. The ports position as well as double side oil return option included allow quick and effective pipes connection resulting in time and fittings saving. The valve also includes an auxiliary outlet (●) available on the mounting face, which is usually plugged. When it is fitted onto a tank, it is then possible to allow direct oil return into the tank. The valve layout is open centre according to the EC directive and includes a check valve on the pump input port as well as built-in adjustable relief valve direct type.

If used in combination with proportional air control valve (like our N-Force series) you can adjust the lowering speed of the tipper body.

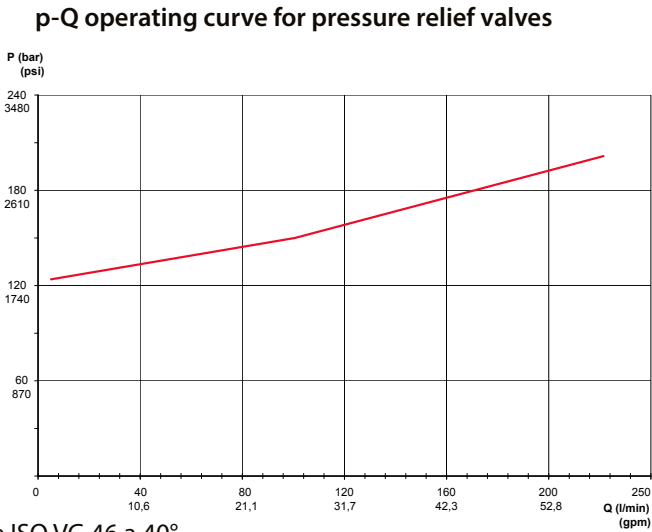
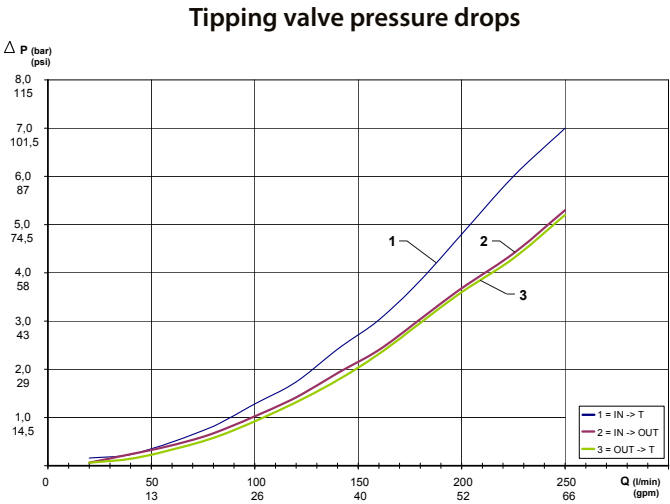
- Casing made out of nodular cast iron with white zinc coating
- Predisposition for pressure signal switch / gauge port.
- Temperature range: -15+110°C, recommended viscosity range 12-100 cSt, recommended filtration grade 25 micron.
- Mounting dimensions fully interchangeable with Modular 250 valves.

Dimensions



Technical features

Tipping valve type	Order code	IN	TANK	OUT	Pressure values		Flow	Weight
		ISO 228	ISO 228	ISO 228	Standard	Max.		
MODULTRUCK 250 CE	12191800264	1 5/16-12 UN-2A	1 5/16-12 UN-2B		2320 psi	4061 psi	66 gpm	17,4 lb



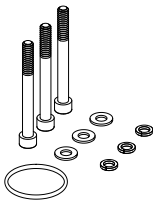
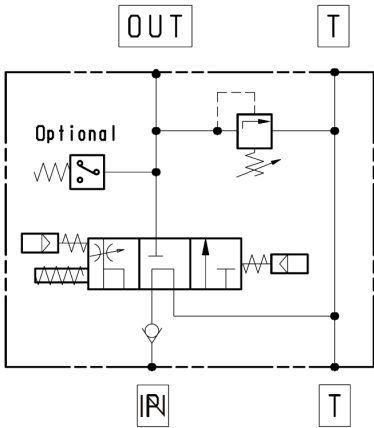
The graph refers to oil type ISO VG 46 a 40°

OPTIONAL
Safety sealing
12190100110



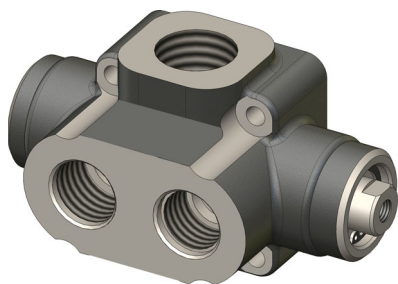
Must be ordered separately

Functional diagram



Mounting kit p/n: 12199400888	
Q.	Description
3	Screw M10 TCE L=95
3	Washer M10
3	Spring washet M10
1	O-ring 155

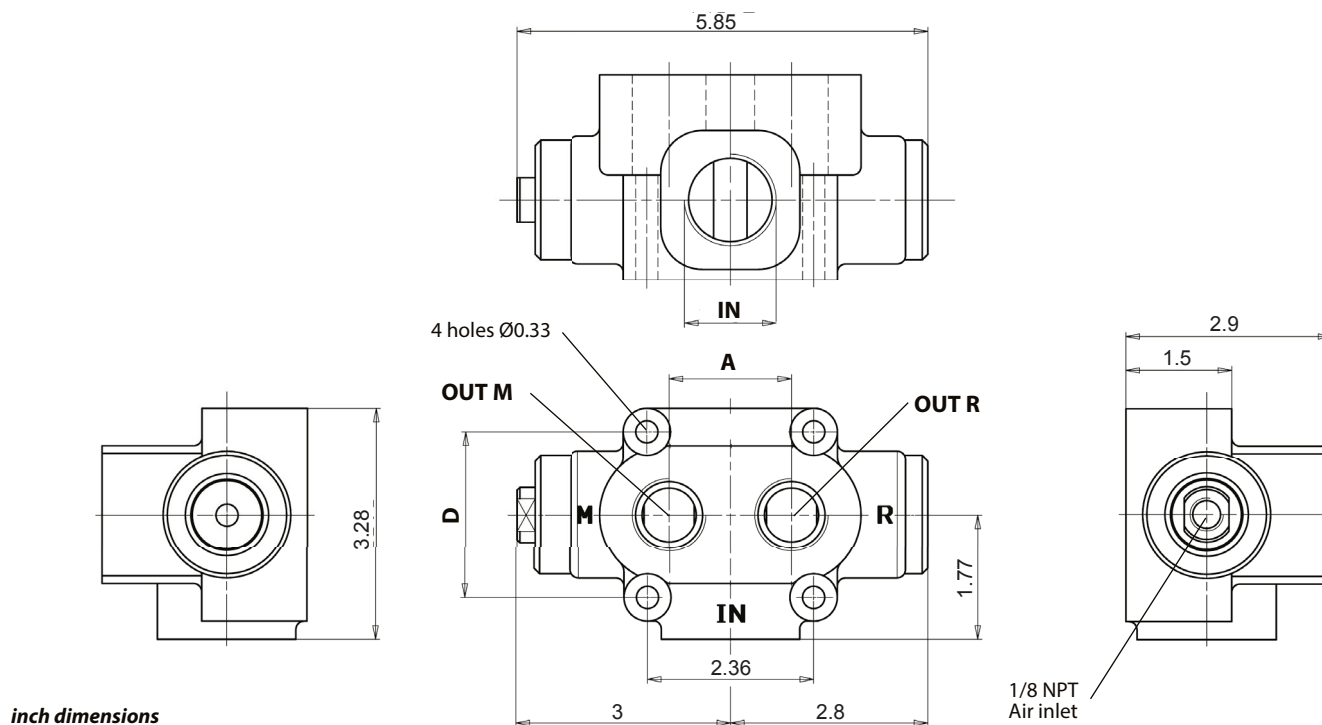
Seal kit: 12190002002



Pneumatic 3-way high pressure diverter valve to control 2 pressure lines separately. Especially designed for applications like Tipper/Crane or Truck/Trailer.

- Flow up to 66 gpm.
- Pressure up to 5801 psi.
- Open center scheme to prevent dangerous shocks while switching.
- Body c/w anti-corrosion coating and Nickel spool.
- Guaranteed for oil temperature range -15+110 °C, viscosity range 12÷100 cSt and oil filtering 25 µm.

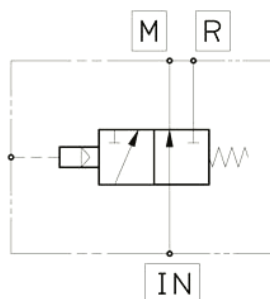
Dimensions



Technical features

Tipping valve type	Order code	A	D	IN - OUT M e R	Pressure values		Flow	Weight
					In service	Max. peak		
DIVERTER 250	12192000162	1,96	2,56	1 5/16-12 UN-2B	5076 psi	5801 psi	66 gpm	5,5 lb

Functional diagram



Seal kit: 12190002502

Pressure (bar)
(psi)

Pressure drops

