PNEUMATIC CIRCUITRY ACCESSORIES

TecnAir®

DRIVE & CONTROL TECHNOLOGY

- Impulse Generators
- Adjustable Impulse Generators
- Two Hand Starts

www.tecnair.co.uk

Impulse Generators

Non Adjustable Pulse

GENERAL DESCRIPTION

The Impulse Generator is a device which is used in a pilot signal line to produce a momentary pulse of air in order to eliminate the possibility of a held-on signal. The pulse duration is fixed at around 0.2 seconds and is non-adjustable. Impulse Generators are installed in-between the signalling valve (normally a 3/2 valve) and the pilot valve being actuated. The signal from the 3/2 valve is maintained at port 1 of the impulse generator, which then activates a single air pulse to operate the pilot valve. To repeat the cycle the pilot signal must be exhausted and applied again.

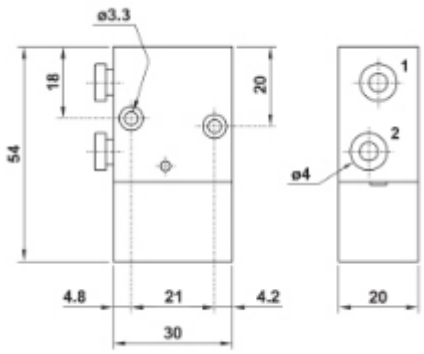
TECHNICAL DATA

Ports	4mm push-in fittings
Temperature range	max 60°C
Working pressure	2 to 10 bar
Fluid	50µ filtered, lubricated or non lubricated air

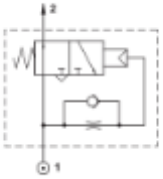
MATERIAL SPECIFICATION

Body	Aluminium
Seals	NBR
Springs	Stainless Steel
Internal parts	Brass OT58

DIMENSIONAL INFORMATION



PNEUMATIC SYMBOL



PART NUMBER

U	M	V	-	4	8	8	6

Impulse Generators

Adjustable Pulse

GENERAL DESCRIPTION

The Impulse Generator is a device which is used in a pilot signal line to produce a momentary pulse of air in order to eliminate the possibility of a held-on signal. The pulse duration is fully adjustable. Once adjusted the screw protection cover can be re-fitted to avoid tampering. Impulse Generators are installed in-between the signalling valve (normally a 3/2 valve) and the pilot valve being actuated. The signal from the 3/2 valve is maintained at port 1 of the impulse generator, which then activates a single air pulse to operate the pilot valve. To repeat the cycle the pilot signal must be exhausted and applied again.

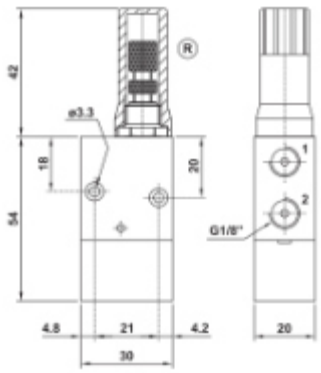
TECHNICAL DATA

Ports	G1/8"
Temperature range	max 60°C
Working pressure	2 to 10 bar
Time regulation	0 to10 sec
Fluid	50µ filtered, lubricated or non lubricated air

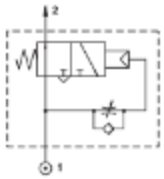
MATERIAL SPECIFICATION

Body	Aluminium
Seals	NBR
Springs	Stainless Steel
Internal parts	Brass OT58

DIMENSIONAL INFORMATION



PNEUMATIC SYMBOL



PART NUMBER

U	M	V	-	5	0	4	4

Two-Hand Start

CE Machinery Directives 2006/42/EC and to NORM UNI EN ISO 13851 : 2019

GENERAL DESCRIPTION

The Two-Hand Start valve is used to enhance machine operator safety by ensuring that two start buttons are operated simultaneously to make sure hands are well clear of any dangerous mechanisms. Two 3/2 manual push button valves are used in conjunction with a two hand start module which operates the start-up control valve. The Two-Hand Start module will ignore a single signal from one of the push button valves, thus making sure the operator cannot tie down one of the push button valves. To repeat the cycle both pilot signals must be exhausted and the push button valves simultaneously actuated again. The Two-Hand Start valve is supplied with CE-certification compliant to Machinery Directives 2006/42/EC and to NORM UNI EN ISO 13851 : 2019

TECHNICAL DATA

Ports	G1/8"
Maximum flow rate	100 Nl/min
Temperature range	-10°C to 60°C
Working pressure	3 to 8 bar
Delay between two actuating signals	< 0.5 sec
Fluid	50µ filtered, lubricated or non lubricated air

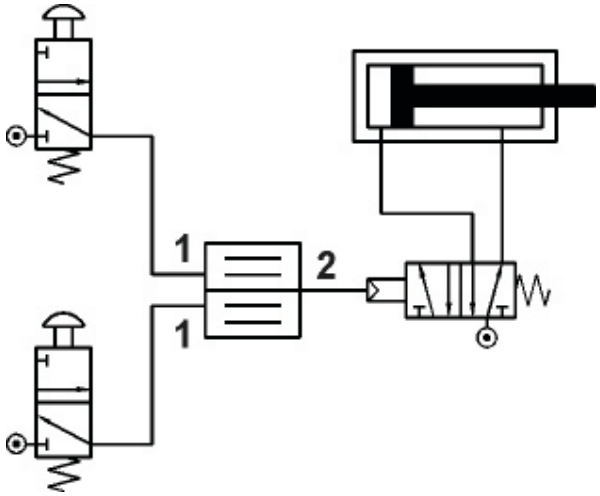
MATERIAL SPECIFICATION

Body	Aluminium 11S
Seals	NBR
Springs	Stainless Steel
Internal parts	Brass OT58

PART NUMBER

U	M	V	-	4	8	3	4

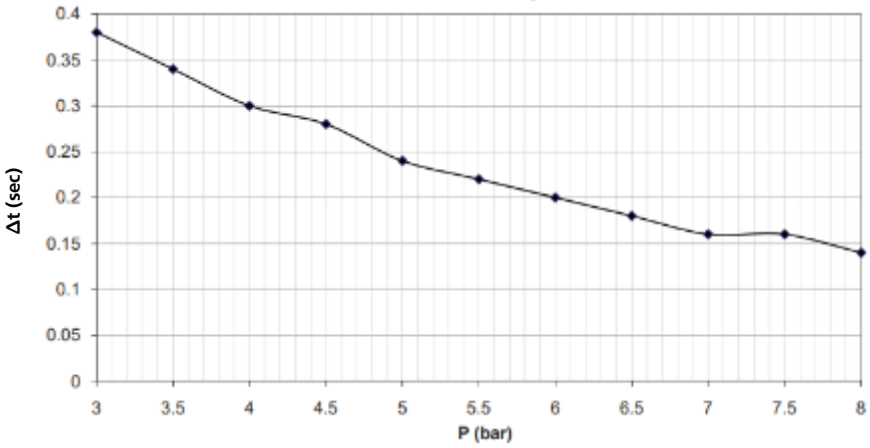
TYPICAL SYSTEM CIRCUIT



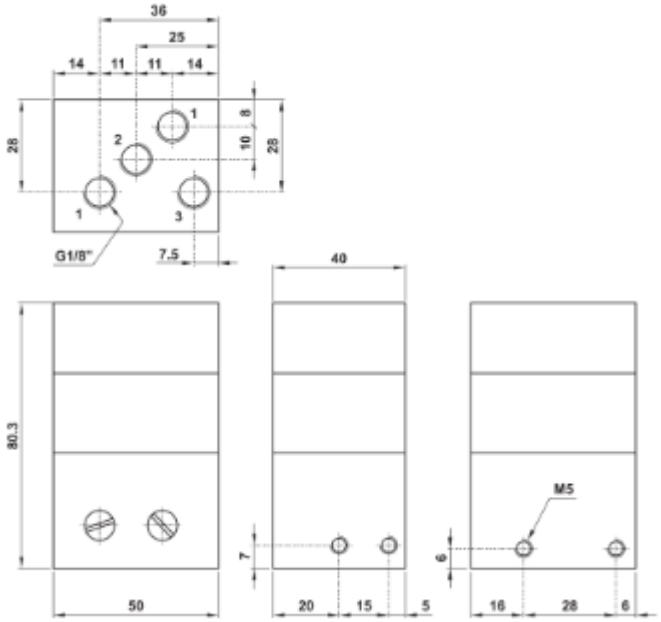
PNEUMATIC SYMBOL

RESPONSE TIME

Response Time in relation to Pressure



DIMENSIONAL INFORMATION



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