

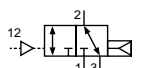
Technical details

Connection	G1/8
Nominal size	6 mm
Temperature range	-10°C ... +70°C (-10°C...+60°C for use in ATEX areas)
Medium	Filtered, oil-free and dried compressed air according to ISO 8573-1:2010, Class 7:2:4, instrument air, free of aggressive additives. Differing the pressure dew point must be at least 10°C below lowest occurring ambient temperature.
Materials	Body: Al (anodized), seals: NBR and POM, inner parts: Al, brass, stainless steel
	Products without their own potential ignition source in accordance with Directive 2014/34/EU, suitable for use in hazardous areas or versions in accordance with 2014/34/EU (ATEX) available. (page 05)

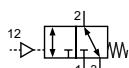


Pneumatically operated spool valve. The valve switches upon pressurization of the pilot port.

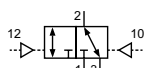
3/2-way-valves



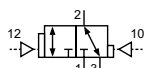
P-05-310
3/2-way, single pilot, air spring return



P-05-311
3/2-way, single pilot, mechanical spring return

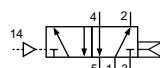


P-05-320
3/2-way, double pilot

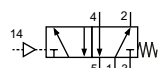


P-05-322
3/2-way, double pilot, one side dominant

5/2- and 5/3-way-valves



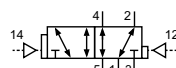
P-05-510
5/2-way, single pilot, air spring return



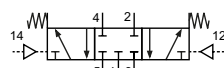
P-05-511
5/2-way, single pilot, mechanical spring return



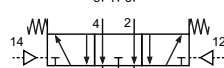
P-05-520
5/2-way, double pilot



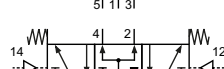
P-05-522
5/2-way, double pilot, one side dominant



P-05-530
5/3-way, center position closed



P-05-533
5/3-way, center position exhausted



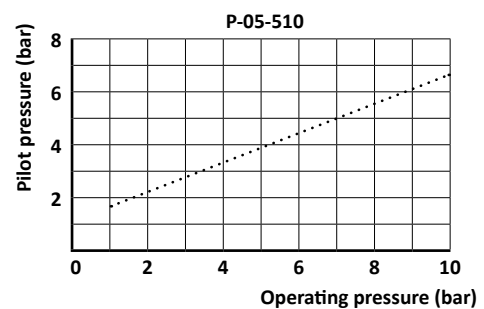
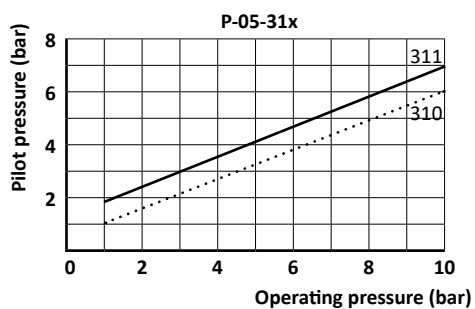
P-05-534
5/3-way, center position pressurized

Series P-05

Technical data

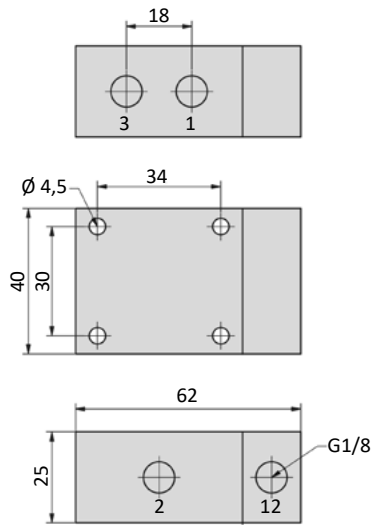
Model-no.:	P-05-310	P-05-311	P-05-320	P-05-322
Operating pressure (bar)	2 ... 10	1 ... 10	0 ... 10	0 ... 10
Pilot pressure (bar)	see diagram	see diagram	2 ... 10	2 ... 10
Flow rate (NI/min)	750	750	750	750
Weight (kg)	0.156	0.158	0.195	0.2

Model-no.:	P-05-510	P-05-511	P-05-520	P-05-522	P-05-530	P-05-533	P-05-534
Operating pressure (bar)	2 ... 10	0 ... 10	0 ... 10	0 ... 10	0 ... 8	0 ... 8	0 ... 8
Pilot pressure (bar)	see diagram	3 ... 10	2 ... 10	2 ... 10	3 ... 8	3 ... 8	3 ... 8
Flow rate (NI/min)	750	750	750	750	650	650	650
Weight (kg)	0.200	0.205	0.245	0.245	0.245	0.245	0.245

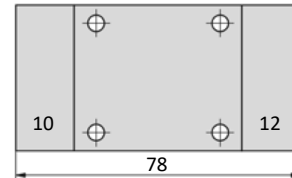


Dimensions

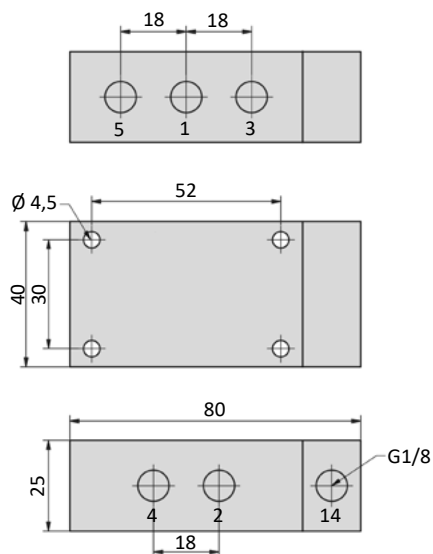
P-05-31x



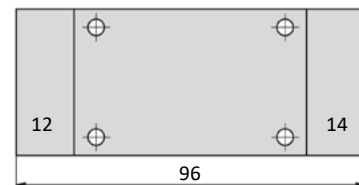
P-05-32x



P-05-51x



P-05-52x, P-05-53x



- 1 = pressure inlet
 - 2,4 = outlets
 - 3,5 = exhausts
 - 10,12,14 = pilot ports
- Pilot ports can be repositioned by 180°.

Accessories



Series P-05



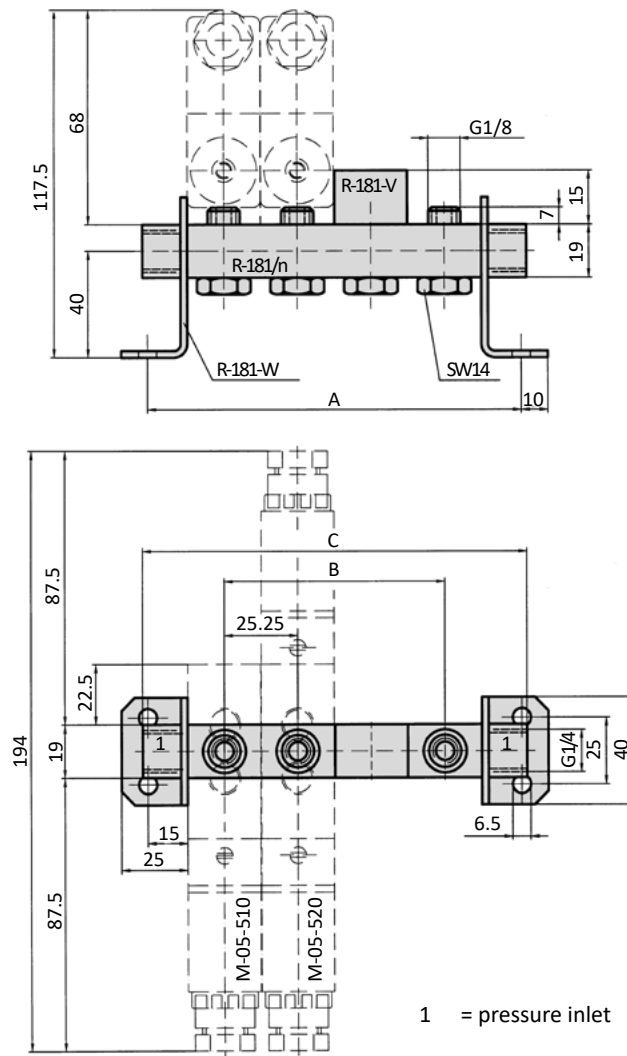
General information

The R-181/n manifold is suitable for the M-05 valve series. As well available are blind plates R-181-V for blank stations and mounting brackets R-181-W (pair). Hollow bolts and gaskets are included.

The manifold is as well suitable for the pneumatically operated valve series P-05.



Dimensions



Model-no.:	A	B	C	Weight (kg)
R-181/2	80.5	25.25	85	0.084
R-181/3	105.75	50.5	110	0.113
R-181/4	131	75.75	135	0.144
R-181/5	156.25	101	160	0.174
R-181/6	181.5	126.25	185	0.215
R-181/8	232	176.75	235	0.266
R-181/10	282.5	227.25	285	0.326
R-181/12	333	277.75	335	0.385

Pneumatically operated valves

Device marking

Pneumatically operated valves are marked as follows:

 II 2G Ex h IIC T5 Gb
 II 2D Ex h IIIC T100°C Db
-10°C T_{amb} +50°C

Marking according to DIN EN ISO 80079-36/ -37.

Pneumatically operated valves conform to Equipment category 2 and can be used in Zone 1 respectively Zone 21.

Available valves

Series	Versions
P-05	511

Explosion-proof equipment without inherent potential ignition sources

The articles listed in the appendix do not fall into the scope of the EU Directive 2014/34/EC. They are not subjected by Article 1 (2) and (3) of Directive 2014/34/EC. It has been proven by an ignition risk analysis that the valves have no potential ignition source of their own. They can be used in compliance with the requirements of e.g. DIN EN 1127-1:2019, DIN EN IEC 60079-0:2019, DIN EN ISO 80079-36:2016 and DIN EN ISO 80079-37:2016 in

Zone 1 explosion groups IIA, IIB and IIC, Zone 21 explosion groups IIIA, IIIB and IIIC

Zone 2 explosion groups IIA, IIB and IIC, Zone 22 explosion groups IIIA, IIIB and IIIC

The valves are not marked within the meaning of the ATEX Directive. They have to meet the requirements of the existing zones.

Available valves

Series	Versions
P-05	310, 311, 320, 510, 520, 530, 533, 534



The operating instructions for the valve and the electrical equipment must be taken into account before putting into operation. These are included with each valve and are available at www.airtec.de.