Key features – Pneumatic components

Examples: Compressed air supply

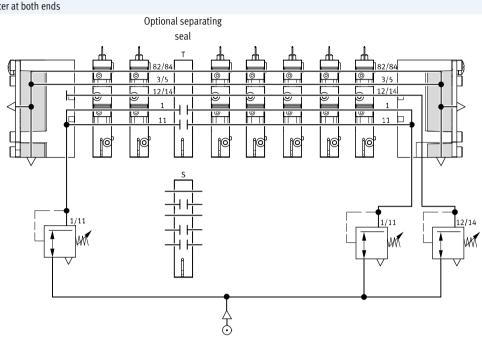
External pilot air supply, flat plate silencer at both ends

Compressed air supply via pneumatic

multiple connector plate:

code H

The diagram opposite shows an example of the configuration and connection of the compressed air supply with external pilot air supply. Port 12/14 on the pneumatic multiple connector plate is equipped with a fitting for this purpose. Ports 3/5 and 82/84 are vented via the flat plate silencers. One separating seal each can be optionally used to create pressure zones.

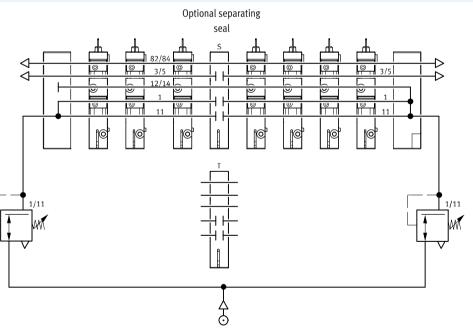


Internal pilot air supply, ducted exhaust air or threaded silencer

Compressed air supply via end plates: code Z

The diagram opposite shows an example of the configuration and connection of the compressed air supply with internal pilot air supply. The pilot air is branched at the righthand end plate of port 1 or 11. Ports 3/5 and 82/84 are vented via the threaded silencer.

One separating seal each can be optionally used to create pressure zones.

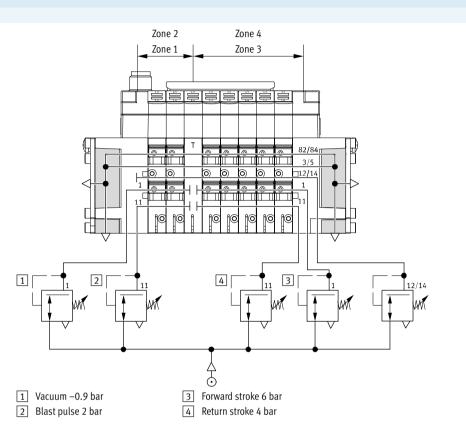


Key features – Pneumatic components

Example: Creating pressure zones

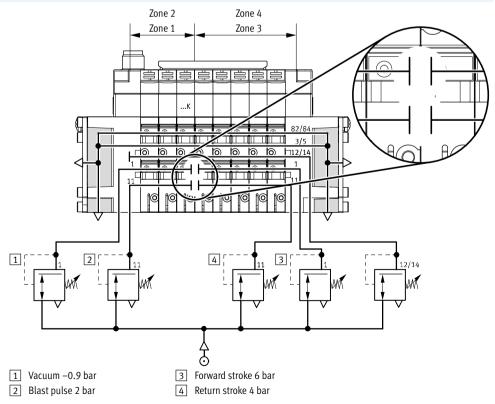
CPV with separator plate T

With the CPV valve terminals up to four pressure zones can be implemented. The diagram shows an example of the configuration and connection of four pressure zones using separator plate code T – with external pilot air supply.



CPV with integrated separation of ducts 1 and 11 with valves ...K

With the CPV valve terminals up to four pressure zones can be implemented. The diagram shows an example of the configuration and connection of four pressure zones with external pilot air supply and the use of a valve ...K with integrated separation of ducts 1 and 11.



Key features – Pneumatic components

Compressed air supply and exhausting

The two end plates that pressurise and exhaust the valve slices are a characteristic feature of a CPV valve terminal:

• Large duct cross sections ensure maximum flow rates even when multiple valves are switched in parallel

Large flat plate silencers in the end plates

• Internal/external pilot air supply

Each individual valve is supplied with compressed air from two individual ducts (supply ports 1/11) and

exhausted via a large, integrated exhaust duct (exhaust 3/5). This design permits unique flexibility and functionality. It is the easiest way of realising a number of pressure zones per terminal or combinations of vacuum

applications.

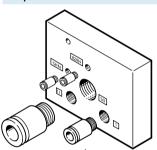
The valve terminal is supplied via end plates, either on the left, on the right or on both sides. End plate combinations other than those listed are possible (on request).

Pilot air supply

Internal pilot air supply

Internal pilot air supply can be selected if the supply pressure at pneumatic port 1 is 3 ... 8 bar. With internal pilot air supply the branch is located in the left or right-hand end plate. There is no port 12/14.

End plates



External pilot air supply

External pilot air supply is required if the supply pressure at pneumatic port 1 is less than 3 bar or greater than 8 bar. In this case, pressure of 3 ... 8 bar is applied at port 12/14. If a gradual pressure build-up in the system using a pressurised on-off valve is required, external pilot supply air should be selected. The control pressure applied during switch-on is already very high in this case. External pilot air supply is also required if it is necessary to ensure that the back pressure flaps (valve order code CY) are closed securely in the event of a sudden drop in operating pressure or if the operating pressure is switched off.

Example of an end plate: The diagram shows a left-hand end plate with external pilot air supply. The exhaust ports 3/5 and 82/84 can be equipped with fittings or silencers. An end plate for internal pilot air supply does not have ports 12/14 and 11. The port 82/84 is always present and should be fitted with a silencer. The port 12/14 is connected internally with port 1 on an end plate for internal pilot air supply.

Key features – Pneumatic components

End plate combination for compressed air supply via end plate Code Graphical symbol Size Note 10 14 18 Type of pilot air supply (internal/external) Internal pilot air supply U • Ports in right-hand end plate only • No pressure zone separation permissible 82/84 • Not suitable for vacuum 3/5 12/14 Ь 11 1 Internal pilot air supply V · Ports in left-hand end plate only • No pressure zone separation permissible 60 82/84 \triangleleft Not suitable for vacuum 3/5 < 12/14 1111 11 ۵ 1 • Ports in right-hand end plate only W External pilot air supply • No pressure zone separation permissible 60 82/84 • Suitable for vacuum 3/5 12/14 Г 11 1 Х External pilot air supply • Ports in left-hand end plate only • No pressure zone separation permissible 82/84 \triangleleft • Suitable for vacuum 3/5 4 h 12/14 11 ۵. 1 Internal pilot air supply • Ports in left-hand and right-hand end plate Y • Maximum three pressure zones 82/84 \triangleleft • Valves to the left of the separator plate 3/5 1 suitable for vacuum 6 12/14 11 1 External pilot air supply • Ports in left-hand and right-hand end plate Ζ • Maximum four pressure zones 82/84 < Suitable for vacuum 3/5 C 12/14 Н 11 1

Key features – Pneumatic components

End plate combination for compressed air supply via pneumatic multiple connector plate Size Code Graphical symbol Note Type of pilot air supply (internal/external) 10 14 18 Internal pilot air supply • Ports on pneumatic multiple connector plate • Pressure zone separation only permissible 82/84 with separator plate (code T) 3/5 Maximum two pressure zones 12/14 • Valves to the left of the separator plate 11 suitable for vacuum • Only for accessories M, P, V, GQC, GQD (pneumatic multiple connector plate) Ζ External pilot air supply • Ports on pneumatic multiple connector plate • Pressure zone separation only permissible 82/84 with separator plate (code T) 3/5 Maximum three pressure zones 12/14 Suitable for vacuum 11 • Only for accessories M, P, V, GQC, GQD 1 (pneumatic multiple connector plate)

