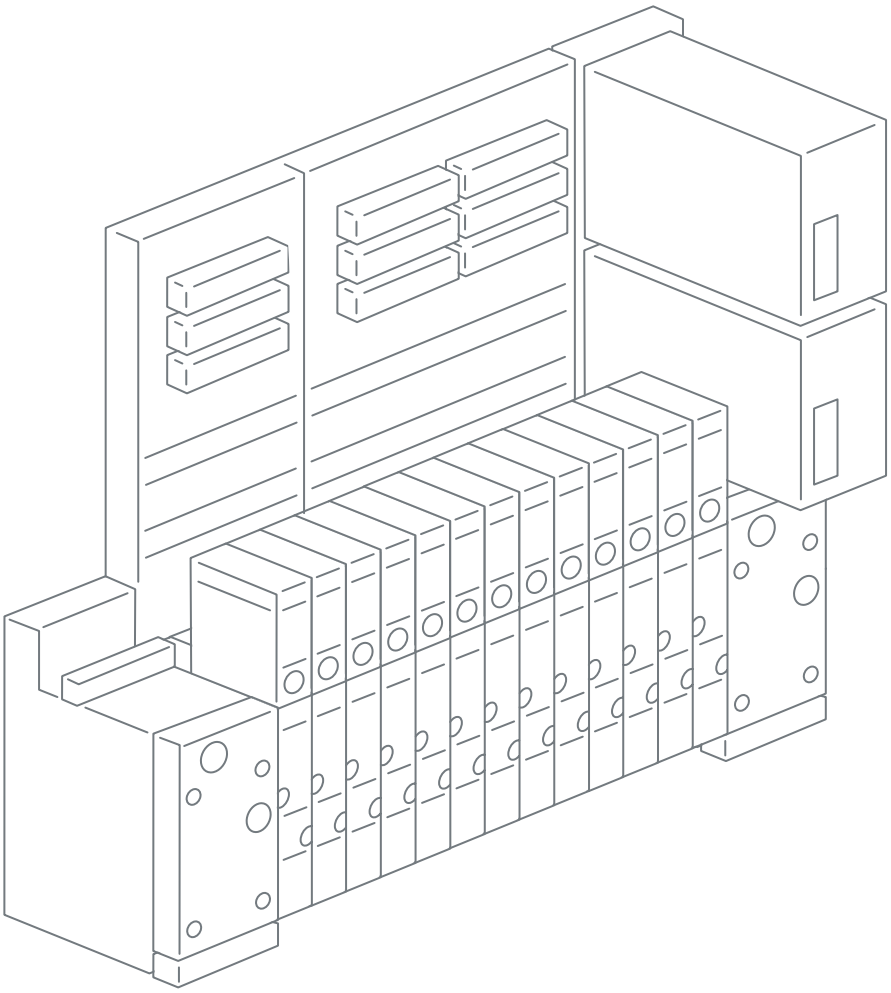
bürkert
FLUID CONTROL SYSTEMS

Type 8640

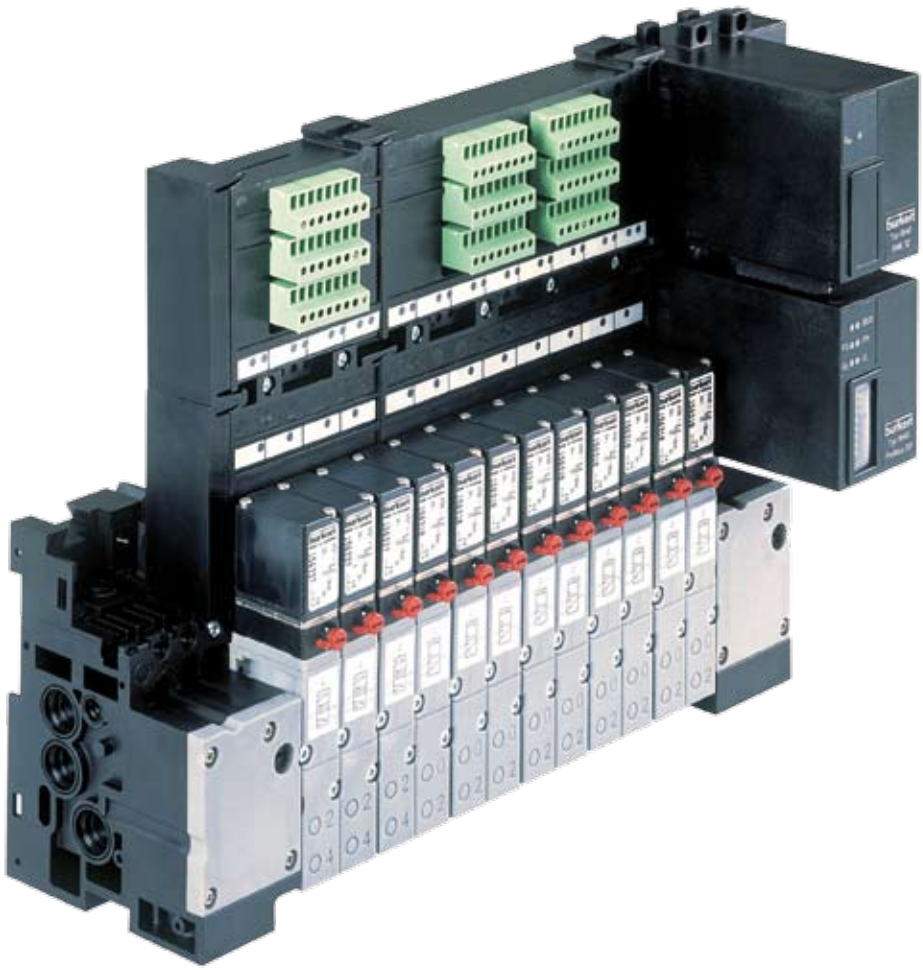
Modular Valve Block / Valve Island for Pneumatics



Type 8640

Features

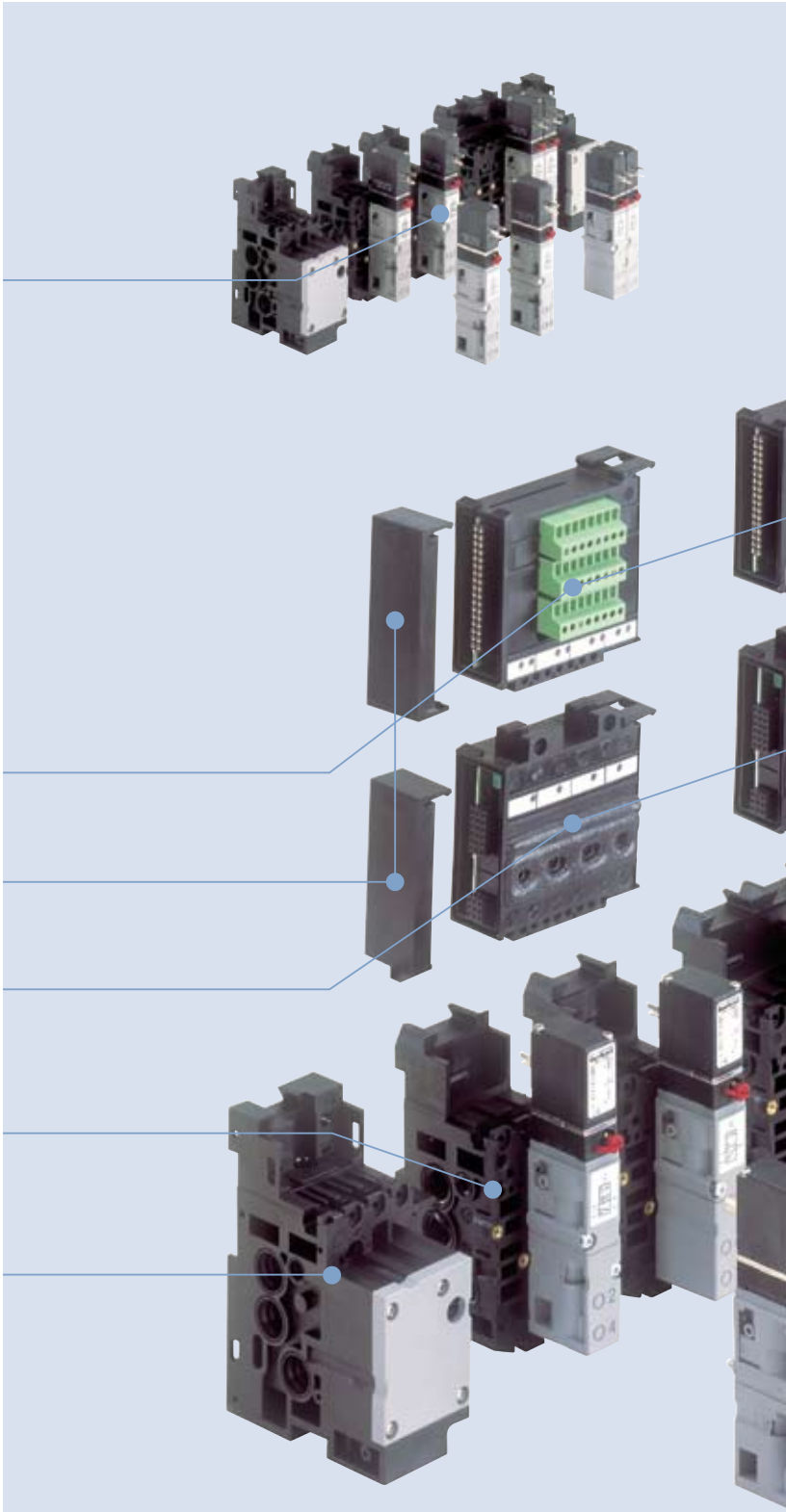
- modular system with protection class up to IP 54 with uncountable possibilities of communication: conventional wiring or fieldbus technique
- detection of sensor inputs by digital input modules
- easier installation by electrical connection Profibus: with a RIO-extension it is possible to control up to 7 valve islands
- realisation of different pressure ranges on a valve block
- easy replacement of valves: with integrated P shut-off even during operation
- better protection for your device by integrated check valves
- customised solutions from a one-stop shop with the certified control cabinet
- user-friendly configuration tool to set up your customized valve block

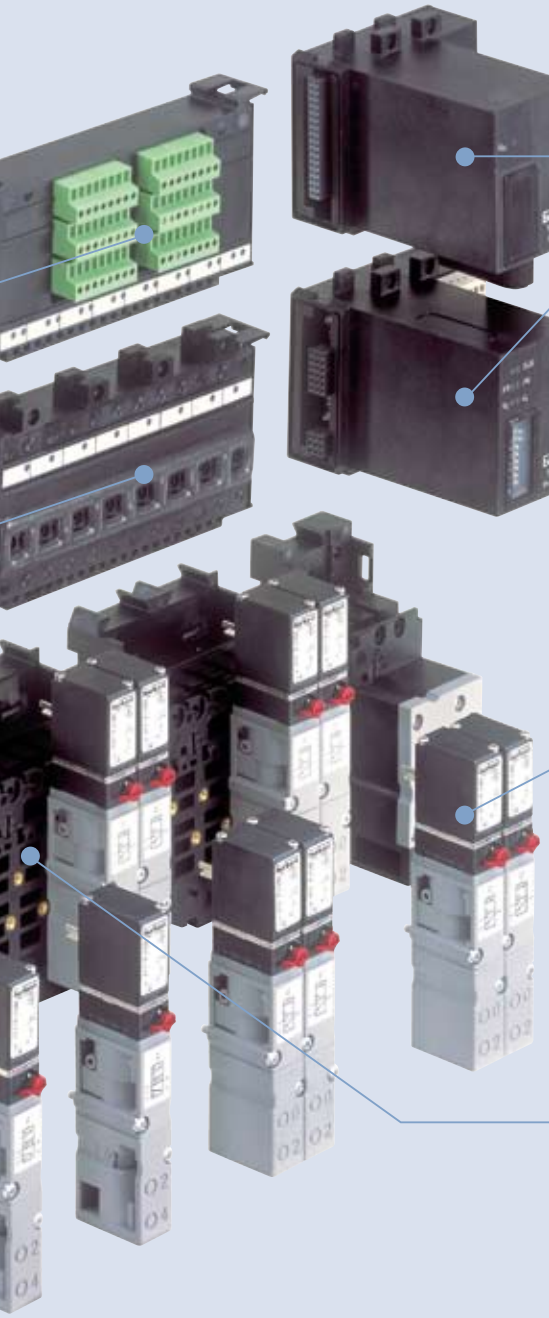


Modular valve island for pneumatics with fieldbus and digital input modules

Modular Assembly—Valve Block and Valve Island for Pneumatics

- valve block type 8640 with valves for single wiring
- digital feedback inputs
- termination modules for electric modules
- basic electrical modules for valves supply
- pneumatic basic modules in different sizes
- pneumatic supply: common supply of valves with compressed air as well as common exhaust air lines





- expansion modules for digital inputs
- communication modules:

  fieldbus technique:
  – Profibus DP
  – CANopen
  – DeviceNet
  – Interbus
  – ASI

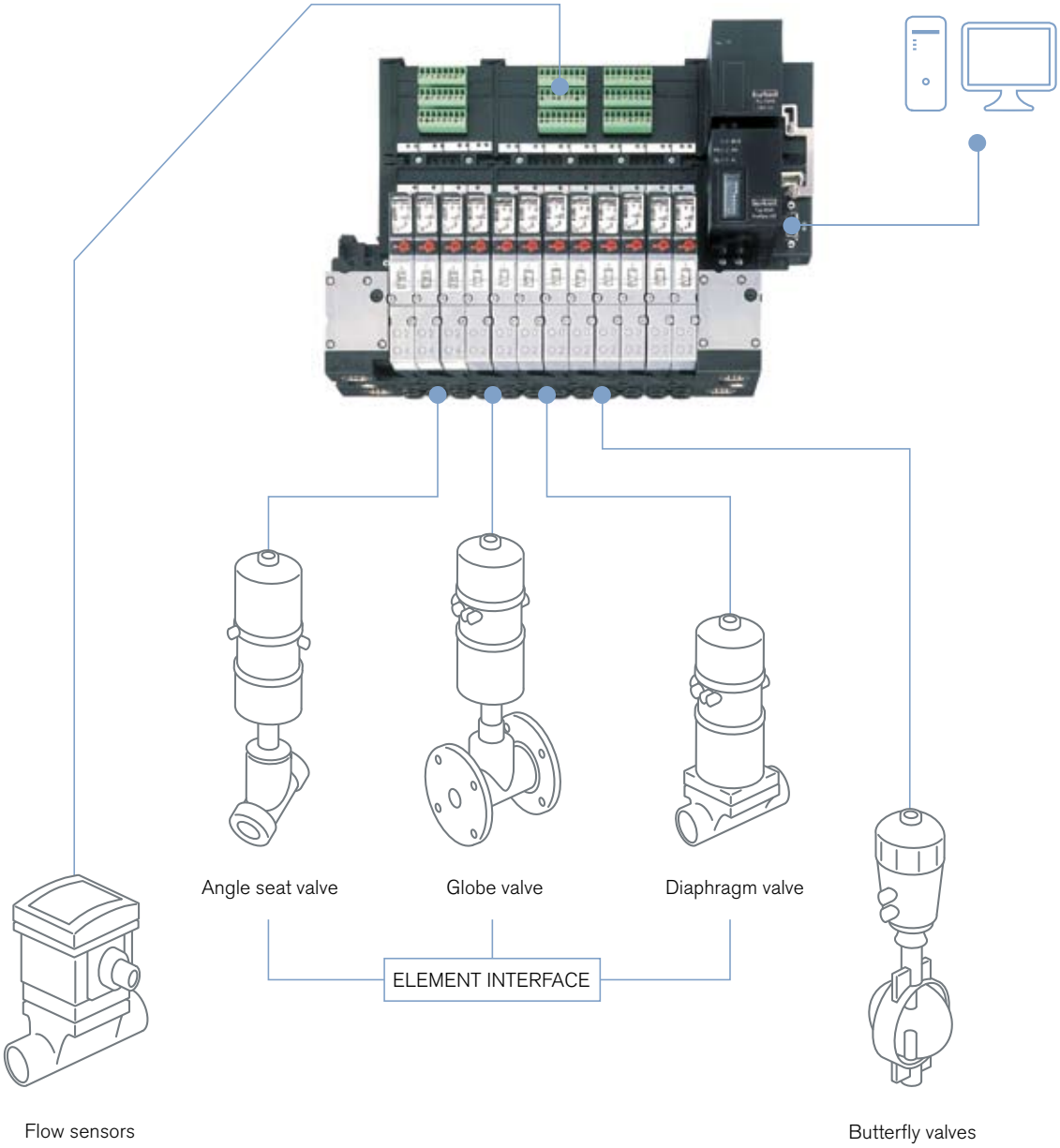
  conventional wiring:
  – multipin
  – common connection
- possibility to combine up to 24 valve functions on a single valve block:
  – 3/2 way valve
  – 5/2 way valve
  – 2x3/2 way valve
  – 5/2 way valve bistable
  – 5/3 way valve
- pneumatic features:
  – P shut-off: replacement of valves during operation possible
  – additional protection in your device with check valves

Possible Functions—Valve Block and Valve Island for Pneumatics

		Flow rate			
		200 l/min	300 l/min	700 l/min	1300 l/min
Electrical control	Single wiring		•	•	•
	Common connection	•	•	•	•
	Multipin	•	•	•	•
	Profibus—DP	•	•	•	•
	Interbus	•	•	•	•
	CANopen	•	•	•	•
	DeviceNet	•	•	•	•
	Ethernet				
	ASI	•	•	•	•
	RIO	•	•	•	•
I/O module	Digital input	•	•	•	•
	Digital output	•	•	•	•
	Analogue input				
	Analogue output				
Valve function	3/2 way		•	•	•
	2x3/2 way		•		
	5/2 way—monostabile		•	•	•
	5/2 way—bistabile	•			
	5/3 way	•			
Width per station	11 mm	•	•		
	16,5 mm			•	
	19 mm		•	•	
	33 mm				•
Pressure range	Vacuum		•	•	•
	1-7 bar		•	•	
	1-8 bar		•	•	
	1-10 bar		•	•	
	2-7 bar	•	•	•	•
	2-10 bar		•	•	
	2,5-7 bar		•	•	
	2,5-10 bar		•	•	
Material	Polyamid (PA)		•	•	•
	Aluminium	•		•	

Open for all Functionalities

The valve island type 8640 uses digital feedback inputs for the control of sensor signals and pneumatic outputs for the control of single- and double-acting process valves.



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