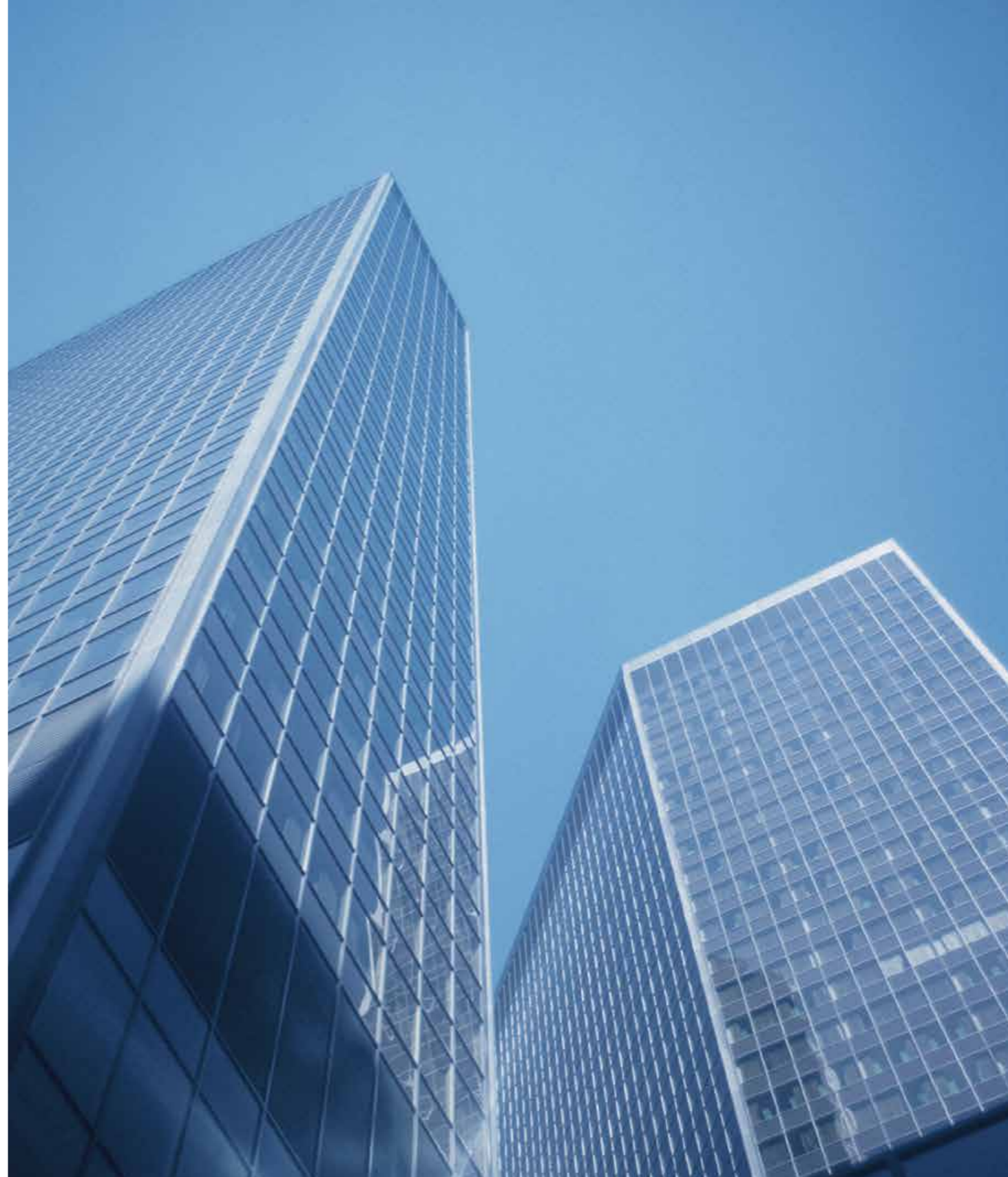




ICV TOTAL CONTROL INSIDE BUILDINGS



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MEMBER OF THE **AVR** GROUP

MOTORIZED CONTROL VALVES
FOR BUILDING
SERVICES



MEMBER OF THE **AVR** GROUP



ICV™ - a proud member of the AVK Group

The AVK Group of Denmark is a privately owned industrial group that currently comprises 77 companies.

AVK's core business is the production of **valves, hydrants and accessories** for the water and gas distribution network, sewage treatment and fire protection. Furthermore, AVK has built up strong brands supplying valves and controls for water treatment, dams & reservoirs, buildings, HVAC, chemical processing, marine and other industrial sectors.

AVK best in class factories cast, machine, coat valves all over the world. AVK also produces its own sealing materials and other essential components in its own factories.

AVK products are designed to the major international standards and are sold in more than 80 countries worldwide. When dealing with the AVK Group expect quality, reliability, functionality and long lifetime in service.

ICV™ is a fully owned subsidiary of the AVK Group A/S.

ICV™ (Indoor Climate Valves) is the building solution department of the AVK Group.

Originally under the AVK Water segment the ICV business area was established as a separate AVK subsidiary brand in 2006 to allow for even greater focus on buildings.

ICV develops, produces, and markets all over the world - total valve solutions for buildings with valves produced by AVK.

This includes heating ventilation and air-conditioning (HVAC), drinking and wastewater in buildings

- General and manual valves (photo below)
- Motorized control valves (photo below)
- Balancing solutions (next page)

ICV's balancing solutions include all balancing valves typically used for buildings with innovative solutions and durable materials.





951 Flowmaster™

Pressure independent control valve - PICV

Offers the combined benefits of optimal modulating flow control valve, differential dynamic pressure balancing control, and manual balancing valve – all in one – for air-handling units, fresh air units, fan coils and all other terminal equipment.

ICV 951 Flowmaster™ PICV has been sold worldwide for years to the benefit of investors, designers, installers and users alike.

It's an integral part of ICV's balancing solution and is the optimal choice for all coils – particularly air handling units and fancoils.

ICV's 951 Flowmaster™ satisfies the need for static balancing caused by the construction of pipes and coils in hydraulic systems, as well as the need for dynamic differential pressure balancing which occurs when control valves modulate the flow of water to terminal coils to adjust the temperature in rooms and thereby impact the flow to other terminal coils.

The motorized control valve is also built into the 951 - that's why called a 3-in-1.

Design made fast and safe

- Simply and quickly chose the valve according to the designed flowrate
- The constant differential pressure control across the modulation control valve guarantees full valve authority at 100%.
- Security that the specified flow is also the actual flow
- Automatic adjustment if the system is modified after the initial installation – no rebalancing necessary
- Design pumps according the actual needs – no need to overdesign capacity

Investments made easy

- One 3-in-1 valve replaces three other valves reducing material cost and installation time, no other regulating valves required when installed at terminals

Installation made fast and easy

- Automatic balancing reduces the time required for debugging
- Minimized commissioning time due to automatic balancing of the system

Comfort made safe

- Precise temperature control gives users better comfort and eliminates over or under supply regardless of fluctuating pressure conditions in the system
- Correct balancing minimizes actuator action extending its service life
- Fast response pressure regulator reduces energy consumption and increases system stability

Highlights

Cost saving

A single 3-in-1 PICV replaces three other valves saving on investment and installation cost

Safe

Balancing made safe during design, installation and remodeling for designers and installers

Comfortable

Increased comfort for users due to ensured balancing and precise modulating temperature control

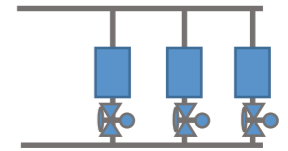
Energy saving

Inbuilt fast response balancing regulator reduces energy consumption and pump size

Flowmaster™



Stroke modulation is ensured through large stroke size
 Commissioning and flushing enabled without actuator
 Designed to resist build-up of dirt
 High quality materials ensures no corrosion



Recommended application:
 The 951 PICV is installed on the return pipe of any terminal coil offering the combined benefits of optimal modulating flow control valve, differential dynamic pressure balancing control, and manual balancing valve – all in one – for air-handling units, fresh air units, fan coils and all other terminal equipment.

Full stroke modulation is ensured regardless of the presetting.
 “First open” cap to allow for installation and commissioning before actuator is installed.
 Removable pressure regulator cartridge makes small-pipe flushing and pipe cleaning easy
 High quality DZR brass ensures no corrosion

Heating Cooling Source Ventilation	ICV no	951-000-9804		951-000-9806		9200420248		9200420249	
	Force (Nm)	250N		400N		1200N		5000N	
	Running time (50/60Hz)	75		140		210/175		240/175	
	IP Class	IP44		IP54		IP54		IP54	
24VAC		Control signal		Modulating 0-10V, 0..20mA, 2-10V/4..20mA, 2P on/off					
		Feedback (position) signal		0-10V, 2-10V					
PN25 0..120°C	ICV no	DN	Δps [kPa] Range	Kvs (m³/h)	Δps [kPa]	Δps [kPa]	Δps [kPa]	Δps [kPa]	
	951-015-2011	15 low	16-400	0.075 -0.0625	400				Body: DZR Brass EN CW602N Regulator: PPS with 40% glass Flow limiter: PPO Spring: Stainless steel O-ring: EPDM Body: 89/336/EEC, 93/68/EEC
	951-020-2011	20 low	16 -400	0.131 -1.05	400				
	951-025-2011	25 low	16 -400	0.231 -1.722	300				
	951-015-2012	15	18 -400	0.244 -1.724	400				
	951-020-2012	20	22 -400	0.292 -2.039	300				
	951-025-2012	25	22 -400	0.292 -2.039	300				
	951-032-2012	32	18 -400	0.465 -3.056	300				
	951-040-2012	40	16 -400	2.022 -7.105		300			
951-050-2012	50	16 -400	2.204 -8.586		300				
PN16/25 -5...95°C	ICV no	DN	Δps [kPa] Range	Kvs (m³/h)	Δps [kPa]	Δps [kPa]	Δps [kPa]	Δps [kPa]	
	951-0040-15012X	40	30-400	1.0 -7.7			500		Body: ductile GG25 Stem: AISI 304 Diaphragm: EPDM Internals: Standards: BS EN 12266, 1092-2
	951-0050-15012X	50	30-400	2.0 -12.1			400		
	951-0065-15012X	65	30-400	3.0 -20.4			300		
	951-0080-15012X	80	30-400	5.0 -40.0			300		
	951-0100-15170X	100	30-400	10.0 -45.3				300	
	951-0125-15170X	125	30-400	15.0 -70.7				300	
	951-0150-15170X	150	30-400	20.0 -101.8				300	
	951-0200-15-70X	200	30-400	50.0 -360.0				150	

Innovative solution



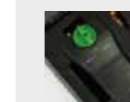
The preset and volumetric flow control functions in one component (left), and pressure regulator (right) –replaceable, compact and innovative

Maximum flow limiter



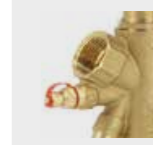
Simple presetting of maximum volumetric flow by inbuilt dial in brass valve

P/T Ports - Pressure testing ports



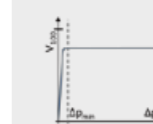
Safe and easy calibration of volumetric flow (Δp) using the ICV PFM Bluetooth commissioning instrument

High grade materials



High grade materials: corrosion resistant brass, AVK rubber sealing, GG25 ductile iron ensures longevity

Inbuilt pressure regulator



Very wide differential pressure control ranges 30-400kpa (dp_{min} - dp_{max})
 Very high constant flow precision at +/-5% of flowrate.

Volumetric control valve



Precise volumetric flow control valve using ICV's 24V modulating actuators
 100 valve authority ensured
 Ensures temperature control and comfort to coil



920/3 & 920/4

Motorized control stroke valves

Offers precise and adjustable flow control for all cooling and heating plants ensuring comfort and energy saving for on-demand heating and cooling

Motorized control valves are at the heart of all climate control in buildings.

Motorized control valves are installed on the return pipe of all heating and cooling coils and the stroke of the actuator is controlled by either thermostats or electronic building controllers.

Correct on-demand flow of energy to coils ensures a comfortable indoor climate by avoiding underflow or incorrect flow-rates, and minimizes energy cost as overflow through coil is avoided.

ICV 920/3 and 920/4 are stroke (globe) valves which offer high precision in flow control.

A motorized control valve constantly changes the flow of energy through its coil throughout the day and will thereby also influence the flow of energy to other coils. ICV recommends the use of dynamic balancing valves (i.e. 908/3 or 951) to ensure that the flow through valves and coils elsewhere in the system are not negatively influenced by this (see ICV balancing offering).

Design made fast and safe

- A very wide range from one supplier makes design and selection easy
- ICV actuators offer all standard control signals and work perfectly with any building controller from any producer
- Designed according to international standards making simple replacement during refurbishments possible

Investments made easy

- Wide offering of actuators makes the most economical choice available

Installation made fast and easy

- Easy mounting of actuator saves time
- Self calibration and status lights makes installation and commissioning safe

Comfort made safe

- Precise temperature control gives users better comfort and eliminates over or under supply – it also saves you money

Highlights

Comfortable and energy saving

Stroke design control concept offers the most precise control characteristics of the control valve types

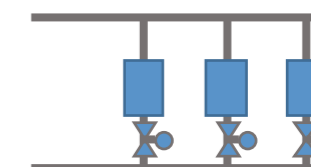
Safe

All standard control signals offered befitting all control manufacturers ensures perfect integration of building automation systems

Easy

Very wide offering of both threaded brass valves and the flanged cast ductile iron version

920/3&4



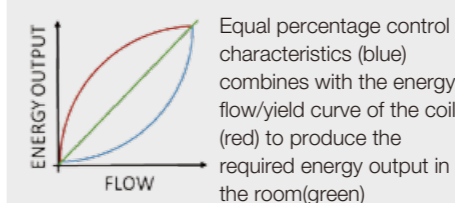
Recommended application:

The 920/3 and 920/4 motorized control stroke valves are installed on the return pipe of all coils requiring modulating flow control:

- Air handling units and fresh air units
- Chillers and cooling towers
- Heating plants
- Energy distribution

920/3 Motorized threaded control stroke valve 920/4 Motorized flanged control stroke valve																
Air handling units	ICV No.	9200320246					9200320247	92004B0247	9200420248	9200420249						
Fresh air units	Force (N)	600N					1000N	1200N	1800N	5000N						
Heating equipment	Positioning time (50/60Hz)	92/76					105/90	114/95	210/175	240/175						
Energy distribution	IP Class	IP54					IP54	IP54	IP54	IP54						
	24VAC						Control signal					0-10V-0..20mA, 2-10V/4..20mA, on/off				
							Positioning feedback signal					0-10V, 2-10V, on/off				
PN16 -5...95 °C	ICV No. 2-way MOD/ONOFF	ICV No. 3-way MOD/ONOFF	DN	Stroke	Kvs (m3/h)	Δps [kPa]	Δps [kPa]	Δps [kPa]	Δps [kPa]	Δps [kPa]						
	920-03-1-0015-11061/2	920-03-1-0015-12061/2	32	20	16	550										
	920-03-1-0020-11061/2	920-03-1-0020-12061/2	40	20	25	450										
	920-03-1-0025-11061/2	920-03-1-0025-12061/2	50	20	40	300										
	920-03-1-0032-11061/2	920-03-1-0032-12061/2	65	20	63		300									
	920-03-1-0040-11061/2	920-03-1-0040-12061/2	80	20	78		250									
	920-042-0065-13121/3	920-042-0065-14121/3	65	20	75			300								
	920-042-0080-13121/3	920-042-0080-14121/3	80	20	100			300								
	920-042-0100-13181/3	920-042-0100-14181/3	100	38	125				300							
	920-042-0125-13181/3	920-042-0125-14181/3	125	38	200				300							
	920-042-0150-13181/3	920-042-0150-14181/3	150	38	285				300							
	920-043-0200-13701/3	920-043-0200-14701/3	200	38	400					200						

EQ% equal percentage control curve



Valves

- Wide range of 2-way and 3-way valves available from DN32-200
- Triple sealing packing box of PTFE+Fluororubber (flanged) and PTFE+NBR (brass) ensures no neck leakage
- Pressure compensated design of flanged valves ensures high close-off pressures with minimum wear on the actuator
- Designed according to BS EN 1092-2 and hydraulically tested according to BS EN 12266. Ensures correction functionality (i.e. EQ) and strength
- DZR corrosion resistant brass body and seat ensures that valve is resistant longevity and functionality

Actuator

- Wide range 600N, 1000N, 1200N, 1800N, 5000N ensures economical fit for different valves sizes
- Easy to use manual override on the actuator
- Control signals 0-10V/0..20mA and 2-10V/4..20mA available. Position feedback signals 0-10V and 2-10V selectable on the actuator
- Self-calibration ensures correct alignment of the control signal and the stroke position
- Normally open or normally closed can be selected on the actuator
- Work status light indicator makes it easier to realize functional issues after installation and commissioning
- Easy mounting saves time for the installer



920/2

Motorized control ball valves

Offers precise and adjustable flow control for all cooling and heating plants ensuring comfort and energy saving for on-demand heating and cooling

Motorized control valves are at the heart of all climate control in buildings.

Motorized control valves are installed on the return pipe of all heating and cooling coils and the stroke of the actuator is controlled by either thermostats or electronic building controllers.

Correct on-demand flow of energy to coils ensures a comfortable indoor climate by avoiding underflow or incorrect flow-rates, and minimizes energy cost as overflow through coil is avoided.

ICV 920/2 series are control ball valves with adequate control characteristics thanks to the V-shaped flow control component for larger sizes.

A motorized control valve constantly changes the flow of energy through its coil throughout the day and will thereby also influence the flow of energy to other coils. ICV recommends the use of dynamic balancing valves (i.e. 908/3 or 951) to ensure that the flow through valves and coils elsewhere in the system are not negatively influenced by this (see ICV balancing offering)

Design made fast and safe

- A very wide range from one supplier makes design and selection easy
- ICV actuators offer all standard control signals and works perfectly with any building controller from any producer
- Designed according to international standards making simple replacement during refurbishments possible

Investments made easy

- Wide offering of actuators makes the most economical choice available

Installation made fast and easy

- Easy mounting of actuator saves time
- Self calibration and status lights makes installation and commissioning safe

Comfort made safe

- Adequate flow control gives users better comfort and eliminates over or under supply – it also saves you money

Highlights

Cost effective

Control ball valves offer adequate control characteristics for affordable price

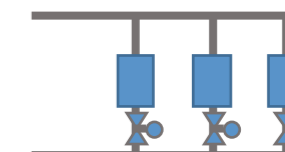
Easy

Easy mounting saves time during installation.

Safe

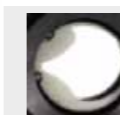
Wide portfolio from the same supplier makes design and product selection easy and safe

920/2



Recommended application:
 The 920/2 motorized control ball valves are installed on the return pipe of all coils requiring modulating flow control:
 Air handling units and fresh air units
 Chillers and cooling towers
 Heating plants
 Energy distribution

Actuators



Ni-Ch coated brass ball CW617N and the characterized PTFE seat ensures EQ flow characteristics and durability.

Cast iron ball valves

- Designed according to BS EN 1092-2 and hydraulically tested to BS EN 12266 (PN16)
- EPDM sealing ensures no leakage from neck
- DN65-150 (ductile iron) for higher durability
- High flow rates up to 320 m³/h
- Leakage rate and safe opening-closing of the valve is ensured at 3bar – 300kpa

Threaded brass ball valves

- Designed according to BS 21 and hydraulically tested to BS EN 12266 (PN16)
- EPDM sealing ensures no leakage from neck
- DN15-50 brass available both as 2-way and 3-way valves
- High flow rates up to 40 m³/h
- Leakage rate and safe opening-closing of the valve is ensured at 3bar – 300kpa

Actuators

- 220VAC 2P on/off control
- 24VAC 0-10V (0-20mA) or 2-10V (4..20mA) control and 0-10V and 2-10V feedback signals available
- Rotation direction / normally open or normally closed selectable
- Self calibration function ensures that correct mounting of the actuator and that the correct flow and function is achieved
- Functional light indicating "normal", "self-calibration", and "fault" makes commissioning and fault finding easier
- IP54 housing sufficient for all standard installations
- Manual override for easy and proper mounting
- Running times below 130s (105/130)

920/2 motorized control ball valve									
Air handling units Fresh air units Heating equipment Energy distribution	ICV No. modulating control	-	9202101	9202101	9203301	Actuator: ABS			
	ICV No. on/off control	9201023	9202103	9202103	9203303				
	Force	2	10	10	30				
	Positioning time (50/60Hz)	40/50	95/105	95/105	120/130				
	IP Class		54	54	54			54	
		Control signal	2P	-	-			-	
	220 VAC	Position feedback	-	-	-			-	
		Control signal	-	0-10V/0..20mA, 2-10V/4..20mA					
24 VAC	Position feedback	-	0-10V, 2-10V						
PN16°0...90 °C		阀门型号	口径	PN	Kvs (m3/h)	Δps [kPa]	Δps [kPa]	Δps [kPa]	Δps [kPa]
		920-02-1-220-00015-1D	15	20	4	300			
		920-02-1-220-00020-1D	20	20	4	300			
		920-02-1-220-00025-1D	25	20	10	300			
		920-02-B-CCC-00032-1D	32	20	16		300		
		920-02-B-CCC-00040-1D	40	20	25		300		
		920-02-B-CCC-00050-1D	50	20	40		300		
		920-02-B-CCC2-0065-125	65	16	63		300		
		920-02-B-CCC2-0080-125	80	16	100		300		
		920-02-B-CCC2-0100-125	100	16	140			300	
		920-02-B-CCC2-0125-125	125	16	230			300	
		920-02-B-CCC2-0150-125	150	16	320			300	

Body: Brass
 Seat/gasket: PTFE
 Ball: chromed brass CW617N
 Stem: stainless steel AISI 304
 O-ring: EPDM

Body: ductile cast iron
 Seat/gasket: PTFE
 Ball: chromed brass CW617N
 Stem: stainless steel AISI 304
 O-ring EPDM



925/6

Motorized control butterfly valves

Offers precise and adjustable flow control for all cooling and heating plants ensuring comfort and energy saving for on-demand heating and cooling

The 925 motorized control valves from ICV offer reliable and acceptable flow control for large size applications – chillers, cooling towers and other distribution requirements.

Typically modulating flow control butterfly valves are used on the return pipe of chillers, cooling towers but also suitable for a range of flow distribution applications.

Design made fast and safe

- A very wide range from one supplier makes design and selection easy
- ICV actuators offer all standard control signals and works perfectly with any building controller from any producer
- Designed according to international standards making simple replacement during refurbishments possible

Investments made easy

- Wide offering of actuators makes the most economical choice available

Installation made fast and easy

- Readymade pre-mounted actuators saves time and ensures that calibration is done correctly
- Self calibration and status indicator makes installation and commissioning safe

Comfort made safe

- Acceptable flow control gives users better comfort and eliminates over or under supply – it also saves you money

Highlights

Safe

The actuators are pre-mounted from factory avoiding positioning errors

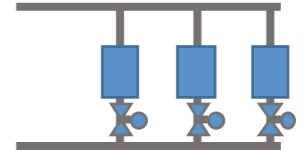
Easy

Very wide range makes design and selection easy from one supplier



Energy saving

Adequate flow control helps avoid oversupply and the wide offering ensures an economical fit

925/6



Recommended application:
 The butterfly valves are recommended as modulating control or on/off control of all coils, chillers, cooling towers, and distribution for large diameters.
 Air handling units and fresh air units
 Chillers and cooling towers
 Heating plants
 Energy distribution

925/06 Motorized control butterfly 925/01 wafer type butterfly valves															
Air handling units Fresh air units Heating equipment Energy distribution	ICV No. 925/06			-00040-5XY	-00060-7XY	-00090-7XY	-00150-7XY	-00281-0XY	-00381-2XY	-00601-2XY	-01001-2XY	-02001-4XY	-03001-6XY	-04001-6XY	Housing: aluminum alloy/Cast iron Hand wheel: cast iron Open/Close indicator Stainless steel AISI 304
	Force Nm			40	60	90	150	280	380	600	1000	2000	3000	4000	
	Positioning time (50/60Hz)			14/17	14/17	14/17	17/20	22/26	22/26	24/29	24/29	75/90	75/90	60	
	IP Class			IP67	IP67	IP67	IP67	IP67	IP67	IP67	IP67	IP67	IP67	IP67	
220 VAC	Control signal			2P											
	Position feedback			Dry contact											
380 VAC	Control signal			0-10V, 2-10V/4...20mA											
	Position feedback			0-10V, 2-10V											
PN16 to 110°C	ICV No.	mm	Kvs (m3/h)	Δps [kPa]	Δps [kPa]	Δps [kPa]	Δps [kPa]	Δps [kPa]	Δps [kPa]	Δps [kPa]	Δps [kPa]	Δps [kPa]	Δps [kPa]	Δps [kPa]	
	925-02-0050-X1YY	50	135	1600											Body: ductile iron GGG40 Disc: Epoxy coated ductile iron Seat: EPDM Stem: stainless steel AISI 420/2Cr13 Coating: epoxy coating RAL7011 > 100µm BS EN 1074-1 (Disc, seat, stem – other materials available)
	925-02-0065-X1YY	65	220	1600											
	925-02-0080-X1YY	80	302	1600											
	925-02-0100-X1YY	100	600		1600										
	925-02-0125-X1YY	125	1022			1600									
	925-02-0150-X1YY	150	1579				1600								
	925-02-0200-X1YY	200	3136					1600							
	925-02-0250-X1YY	250	5340						1600						
	925-02-0300-X1YY	300	8250							1600					
	925-02-0350-X1YY	350	11917								1600				
	925-02-0400-X1YY	400	16388									1600			
	925-02-0450-X1YY	450	21705										1600		
925-02-0500-X1YY	500	27908											1600		
925-02-0600-X1YY	600	43116												1600	

Actuator

- Very wide range available from 40 Nm to 4000 Nm ensures economical fit of valve and actuator
- Produced according to JB/T8528-97
- IP67 high protection class suitable for outdoors installations
- Auto-calibration ensure correct position feedback and correct functional integration of the valve and actuator
- Internal heating element ensures that condensation doesn't damage the circuits
- Easy to use clutch and large handwheel for manual override during commissioning
- Self-locking gear train for stable torques and long life

Butterfly valve

- Extremely wide range of butterfly valves available from ICV (76, 925, 756)
- Connection: wafer, lug, double flanged,
- Disc: concentric, eccentric, iron epoxy, stainless steel AISI 304/316
- Liner: many types of EPDM, NBR etc
- Designed with a long neck to limit heat and cold transfer from valve to actuator and allow space for insulation
- Large disc ensures reliable and high close-off pressure

Also available: lug type



Also available: double flanged



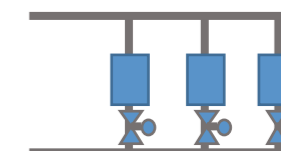
920/1



ICV 920-1

Motorized on/off valve for fancoils

Offers on/off control of fan coils




Recommended application:
For on/off control of fan coils

Most commercial buildings apply fan coils for cooling purposes in rooms.

ICV 920/1 is a simple on/off valve and actuator combination with two wires. The set is available in 2-way and 3-way for fancoils and other low temperature applications.

920/1 offers flow rates up to 3m³/h and close-off pressure up to 180 kPa which is suitable for most room cooling and heating using fan coils.

For higher requirements we recommend ICV premium offering the 955 Flowmaster™ FC which includes dynamic balancing with close-off pressure of 380 kPa and flowrates up to 2.45m³/h.

220VAC		On/off			
PN16' to 90°C	ICV No. 2-way	mm	Δps [kPa]	Kvs m ³ /h	
	920-01-0015-2	15	180	2	Body: DZR brass Disc: NBR Stem: stainless steel Actuator housing Aluminium alloy and ABS Thread to BS 21 Hydraulic tested to EN 12266
	920-01-0020-2	20	180	3	
	920-01-0025-2	25	180	3	
	920-01-0015-21	15	180	2	
	920-01-0020-21	20	180	3	
	920-01-0025-21	25	180	3	

Highlights

Simple

Simple installation and usage

Suitable

Normally closed suitable for most cooling applications

Easy

Manual override used during installation and maintenance, with only two wires for easy wiring.

Safe

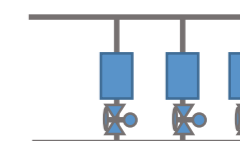
Spring return ensures actuator returns to closed position in case of power failure



955 Flowmaster™ FC

Motorized 2-way on/off dynamic balancing valve

Offers dynamic flow balancing and on/off control of fan coils – all in one – ensuring that the correct flow is maintained across all units



Recommended application:
The 955 Flowmaster™ FC is installed on the return pipe of any fancoil. The correct flow cartridge is chosen based on flow requirements.

Fan coils



Δp_{s} 380 kPa	Force (N)	Stroke	IP	955-000-9901	955-000-9902	955-000-9903
Δp_{max} 230 kPa	130N	4mm	IP40/44	24 VAC	110 VAC	220 VAC
PN25 -10° to 120°C	ICV No. (L/H)	Flow (l/s)	Min Δp (kPa)	ICV No. (L/H)	Flow (l/s)	Min Δp (kPa)
	952-10 1 1150	0.007	7	952-11 1/2 1725	0.171	14
	952-10 1 1170	0.01	7	952-11 1/2 1730	0.186	14
	952-10 1 1190	0.012	7	952-11 1/2 1735	0.204	14
	952-10 1/2 1210	0.015	7	952-11 1/2 1740	0.222	16
	952-10 1/2 1230	0.021	8	952-11 1/2 1745	0.242	19
	952-10 1/2 1260	0.024	9	952-11 1/2 1750	0.26	21
	952-10 1/2 1290	0.029	10	AVK No. (L/H)	Flow (l/s)	Min Δp (kPa)
	952-10 1/2 1300	0.032	10	952-20 1/2 2070	0.283	22
	952-10 1/2 1320	0.036	11	952-20 1/2 2074	0.3	22
	952-10 1/2 1350	0.043	11	952-20 1/2 2077	0.332	22
	952-10 1/2 1370	0.049	12	952-20 1/2 2082	0.371	23
	952-10 1/2 1400	0.057	12	952-20 1/2 2086	0.412	23
	952-10 1/2 1430	0.067	12	952-20 1/2 2088	0.439	23
	952-10 1/2 1460	0.078	12	952-20 1/2 2092	0.493	24
	952-10 1/2 1490	0.089	13	952-20 1/2 2094	0.509	24
	952-10 1/2 1510	0.097	13	952-20 1/2 2099	0.578	25
	952-10 1/2 1540	0.111	13	952-20 1/2 2103	0.625	26
	952-10 1/2 1570	0.132	14	952-20 1/2 2106	0.644	27
	952-10 1/2 1620	0.151	14	952-20 1/2 2109	0.68	28

ICV Flowmaster™ FC is a premium offering for on/off control as well as dynamic flow balancing.

The ICV Flowmaster FC™ is designed for the balancing of cooling and heating units. With its simple on/off control the valve can be used for many different applications, and at the same time advantage is derived from the dynamic control principles.

By means of ICV Flowmaster FC™ the optimum flow rate is ensured in each control area. This flow rate is maintained in spite of pressure fluctuations in the system. A control area may be two fan coils for a hotel room or a calorifier for a sports centre. Energy savings due to automatic flow control, lower flow and pump pressure. Maximized ΔT due to faster response and increased system stability is also achieved.

Highlights

To in one

Two in one on/off control valve and dynamic flow balancing valve

Exchange cartridge

Exchangeable cartridges for high/low flow and variable flow rates

Silent

ICVthermic actuator and internal diaphragm ensures silent operation preferred for hotels and homes

Materials

Cap DZR Brass CW602N
Body DZR Brass CW602N
Cartridge DZR Brass CW602N
Stem:Stainless steel
Actuator housing ABS