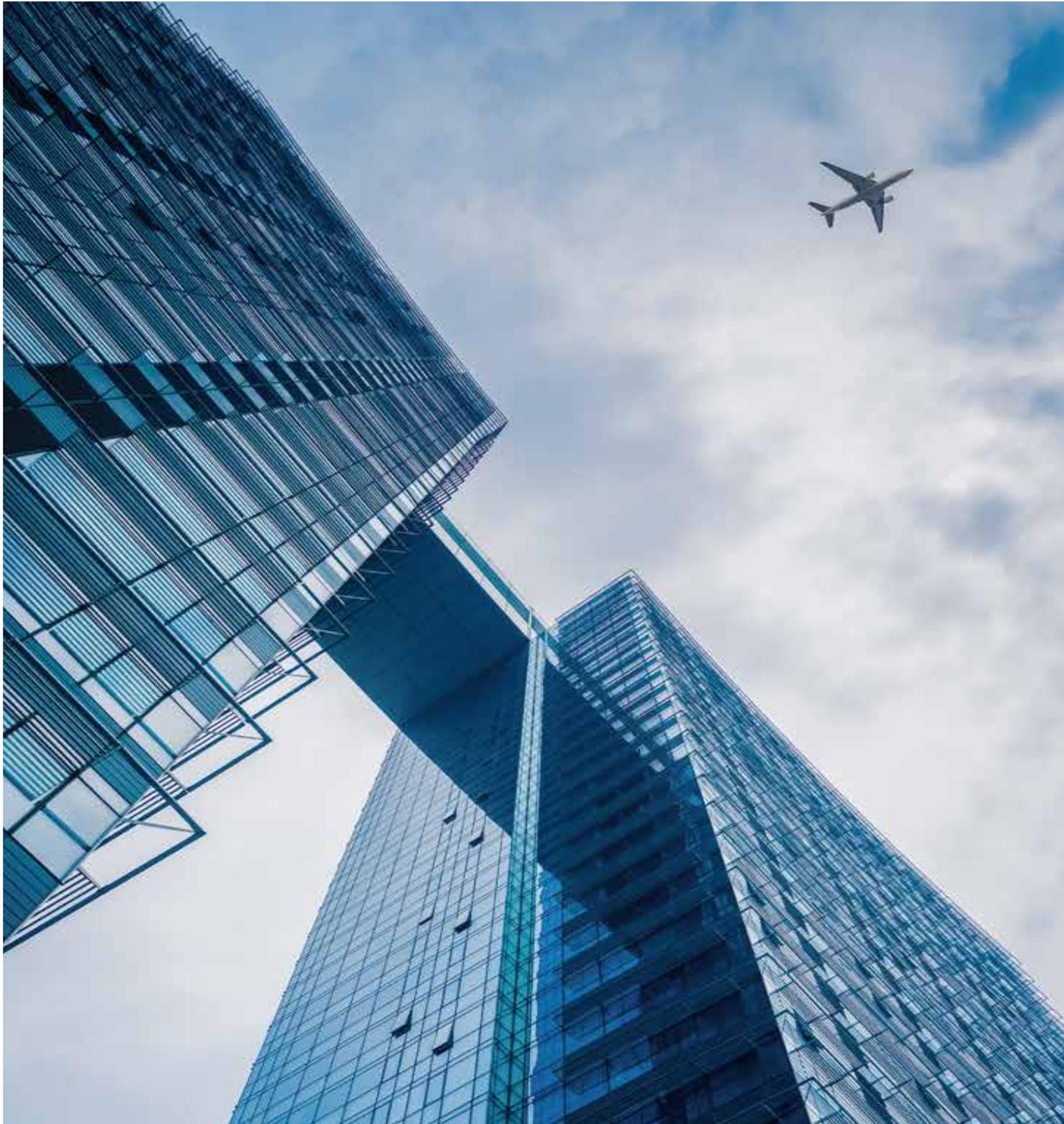


AVK TOTAL CONTROL INSIDE BUILDINGS



VALVE SOLUTIONS FOR BUILDING SERVICES



AVK GROUP

The AVK Group designs, manufactures, and markets innovative quality products, many of which are part of recycling initiatives and processes or energy, water, and infrastructure solutions. At the same time our foundation is to act responsibly towards both employees, the environment, and the society around us.

ABOUT THE AVK GROUP: FROM LOCAL SHOP TO GLOBAL SCALE

In 1941, Aage Valdemar Kjær established AVK as a local machine shop. The main task of the business was the production of compressors for refrigeration and refrigerating plants for customers from all over Denmark. These values have made AVK grow from a local firm with 5 employees to a Group with +4,500 employees supplying products to customers worldwide.

Our Expect... AVK concept helps us reach even higher. We must expect more from ourselves and deliver products and services that live up to and exceed our customers' expectations. This is why I expect that every single one of our employees worldwide will do their utmost to live up to these goals. The guiding principles and the connections back in time must form the basis of our principles in the time ahead. This way, AVK will also be the safe choice in the years to come.

"His guiding principles were quality, continuity and close customer relations. He knew that the products were in order, and therefore he was able to offer an extensive product guarantee. These guiding principles were important values, which I brought along when I took over his machine shop in 1970."





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.







General valve range (as shown)

756 double flanged double eccentric butterfly valve

76 centric butterfly valve

9002, 02, 21 resilient seated rising and non-rising stem gate valves

37, 54 metal seated rising and non-rising stem gate valves

41 swing check valves

53 ball check valves

903, 904 (silent) check valves

901 globe valve, rising and non-rising stem metal seated gate valve

910 strainer

906 threaded bronze valves

912 , 851 air valve

907 threaded stainless steel valves

Flanged stainless steel valves 910 strainer, 904 check valve, 907 ball valve, 901 gate valves

911 rubber and stainless steel flexible joints and expansion joints

GENERAL VALVES



Series 76
Concentric butterfly valve with loose liner
Wafer type
DN50-300
PN16
Ductile iron
Options:
• various actuators



Series 76/70-003
Concentric butterfly valve, with loose liner
DN350-DN400
PN16
Ductile Iron
Options:
• various actuators



Series 756/100
Butterfly valve
Double eccentric
Double flanged
Integral seat
IP 67 gearbox
DN150-2800
PN10/16
Ductile iron
Options:
• stainless steel seat
• PN25 in DN150-1200
• internal enamel



Series 02/20
Flanged gate valve
Face-to-face BS
DN50-400
PN10/16
Ductile iron



Series 21/38
Flanged gate valve, rising stem
DN50-400
PN10/16
Ductile iron



Resilient seated gate valve
Double flanged gate valve,
Non-rising stem EN1074-1&2
DN50-200
Stainless steel



Metal seated gate valve
• Double Flange connection
• Non-rising stem
• DN50-300
• PN16



Y-strainer
Stainless
• Double Flange connection
• DN50-400
• PN16/PN25



Silent check valve
• Double Flange connection
• DN50-300
• PN16
• Stainless steel



Series 76/70-009
Concentric butterfly valve, with loose liner
DN50-DN600
PN16
Stainless steel
Options:
• various actuators



Concentric butterfly valve
Full lug
PN16
DN50-600
Stainless steel

GENERAL VALVES



Series S903/02

- Wafer connection
- Ductile iron body
- Alu bronze stem
- Alu bronze disc
- Alu bronze seat
- Fusion bonded epoxy coating
- DN50-DN300
- PN16

Optional
SS AISI 304, AISI 316 disc/stem/seat



Series S903/00 Globe silent check valve

- Flange type
- Ductile iron body
- Metal seated
- Fusion bonded epoxy coating
- Spring/stem: SS304
- DN65-400 PN16/25

· Optional SS AISI 316 spring



Product series S903/01

- Flange type
- Ductile iron body
- Alu bronze stem
- Alu bronze disc
- Alu bronze seat
- Fusion bonded epoxy coating
- DN50-DN600
- PN16/PN25

Optional
SS AISI 304, AISI 316 disc/stem/seat



Series 904/03 Swing check valve

- To MSS SP-136
- FTF to ASME B16.10
- Body, bonnet, disc, DI ASTM A536
- Seat ring Brass ASTM B16 Gasket NBR
- Bolt St st AISI304
- Epoxy coating 100um
- Flange to ANSI B16.42/16.1 DN50
- DN600 PN cl150



Series 904/01

- Wafer connection
- Ductile iron body
- Stainless steel AISI 316 stem
- Stainless steel AISI 316 disc
- EPDM seat
- Fusion bonded epoxy coating
- DN50-DN600
- PN16



Series 910/X0 Y-strainer

- Flange connection
- Ductile iron body
- Stainless steel AISI 304 filter
- Galvanized steel drain plug
- NBR O-ring
- DN50-600
- PN16/PN25 Stainless steel AISI 316 drain plug



Series 911/01, 911/02 Flexible joint

- Single sphere/double sphere
- Flange connection
- Nylon tire cord reinforcement
- EPDM body
- Galvanized steel flange
- DN50-600
- PN16/PN25

Other rubber material on request



Series 911/03 Expansion Joint Double sphere

- Double sphere
- Thread connection
- Nylon tire cord reinforcement
- EPDM body
- Galvanized DI thread end
- DN15-50
- PN16

Other rubber material on request



Series 911/04, 911/05 Flexible Joint

- Thread end
- Stainless steel AISI 304 tube
- Stainless steel AISI 304 braid*
- Galvanized steel thread
- DN15-50
- PN16/PN25

Optional
Stainless steel AISI 316 tube/braid/thread end
Female/male thread end

* No braid for DN15-20 for FCU use



Series 911/06 Flexible Joint Steel

- Flange end
- Stainless steel AISI 304 tube
- Stainless steel AISI 304 braid
- Galvanized steel flange
- DN32-800
- PN16/PN25

Optional
Stainless steel AISI 316 tube/braid



Series 911/08 Expansion Joint

- Flange end
- Stainless steel AISI 304 tube
- Galvanized steel tie rod
- Galvanized steel flange
- DN32-1200
- PN16/PN25

STAINLESS STEEL VALVE

BSPT THREAD END, FLANGED TYPE



Series 907/01
Stainless steel gate valve

- Thread to BSPT
- Stainless steel AISI 304 body
- Stainless steel AISI 304 stem
- Stainless steel AISI 304 disc
- Stainless steel AISI 304 seat
- PTFE packing
- DN15-50
- PN16

Optional
Stainless steel AISI 316



Series 907/02
Stainless steel globe

- Thread to BSPT
- Stainless steel AISI 304 body
- Stainless steel AISI 304 stem
- Stainless steel AISI 304 disc
- Stainless steel AISI 304 seat
- PTFE packing
- DN15-50
- PN16

Optional
Stainless steel AISI 316



Series 907/03
Stainless steel check valve

- Thread to BSPT
- Stainless steel AISI 304 body
- Stainless steel AISI 304 pin
- Stainless steel AISI 304 disc
- Stainless steel AISI 304 seat
- PTFE gasket
- DN15-50
- PN16

Optional
Stainless steel AISI 316



Series 910/06
Stainless steel strainer

- Thread to BSPT
- Stainless steel AISI 304 body
- Stainless steel AISI 304 pin
- Stainless steel AISI 304 disc
- Stainless steel AISI 304 seat
- PTFE gasket
- DN15-50
- PN16

Optional
Stainless steel AISI
316



Series 907/04
Stainless steel ball valve

- Thread to BSPT
- Stainless steel AISI 304 body
- Stainless steel AISI 304 stem
- Stainless steel AISI 304 ball
- PTFE seat
- DN15-50
- PN16/PN25

Optional
Stainless steel AISI
316



Series 901/03
Rising stem gate valve

- Flange type
- Stainless steel
- Body/bonnet/stem/wedge
SS304 or SS316
- CI handwheel
- FTF GB12221
- DN50 – DN400
- PN16/PN25



Series 904/02
Swing check valve

- Flange type
- Stainless steel
- Body/disc/shaft SS304 or
SS316
- Flange to EN1092
- DN50-DN300
- PN16/PN25



Series 907/08
Stainless steel ball valve

- Flange type
- Stainless steel AISI 304 or
316
- PTFE seat
- Carbon steel lever
- DN15-DN250
- PN16/PN25



Series 910/05
Stainless steel strainer

- Stainless steel AISI
304 or 316
- Flange type
- Flange to EN1092
- DN50-DN300
- PN16/PN25

BRONZE VALVE BS21 THREAD END



**Series 906/02
Bronze gate valve**

- Thread to BSPT
- Bronze CC491K body
- DZR brass CW602N stem
- Bronze CC491K disc
- Bronze CC491K seat
- PTFE packing
- DN15-50
- PN20/PN25



**Series 906/02
Bronze rising stem gate valve**

- Thread to BS21
- Bronze CC491K body
- DZR brass CW602N stem
- Bronze CC491K disc
- Bronze CC491K seat
- PTFE packing
- DN15-50
- PN20



**Series 906/04
Bronze globe valve**

- Thread to BSPT
- Bronze CC491K body
- DZR brass CW602N stem
- DN15-25 DZR brass CW602N disc
- DN32-50 bronze CC491K disc
- Bronze CC491K seat
- PTFE packing
- DN15-50
- PN16/PN20



**Series 906/08
Ball valve**

- Thread to BSPT
- Bronze CC491K body
- DZR brass CW602N stem
- Chrome plated brass CW617N ball
- PTFE seat
- DN15-50
- PN20/PN25



**Series 910/07
Bronze Y-strainer**

- Thread to BS21
- Bronze CC491K body
- Stainless steel AISI 304 filter
- Bronze CC491K cap
- PTFE gasket
- DN15-50
- PN20



**Series 906/06
Bronze check valve**

- Thread to BSPT
- Bronze CC491K body
- DZR brass CW602N disc
- Bronze CC491K seat
- PTFE gasket
- DN15-50
- PN20



**Series 912
Auto air valve**

- Thread connect
- CW617N brass body
- CW617N brass stem
- PTFE insert
- Stainless steel AISI 304 spring
- DN15-DN25
- PN16

Optional
Stainless steel AISI 304 filter





ICV motorized control valves

- 951 Flowmaster™ – PICV (p. 6-9)
- 920/3 & 920/4 motorized control stroke valves (p. 10-13)
- 920/2 motorized control ball valve (p. 14-17)
- 925/06 & 925/76 motorized control butterfly valve (p. 18–23)
- 920/1 motorized on/off valve for fancoil (p. 24-25)
- 955 Flowmaster™ FC for fancoils (p. 26-27)

MOTORIZED CONTROL VALVES

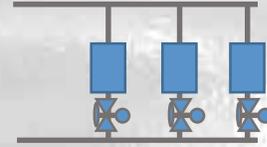
PICV



951 FLOWMASTER PICV - PRESSURE INDEPENDENT MOTORIZED CONTROL BALANCING VALVE



Heating		ICV No.		951-000-9804	951-000-9806	9200420248	9200420249			
Cooling		Force (Nm)		250N	400N	1200N	5000N			
Source		Running time (50/60Hz)		75	140	114/95	240/175			
Ventilation		IP Class		IP44	IP54	IP54	IP54			
		24VAC	Control signal		Modulating 0-10V, 0..20mA, 2-10V/4..20mA, 2P on/off					
		Feedback (position) signal		1-10V, 2-10V						
PN25	ps [kPa]	0..120°C	ICV No. DN Range		Kvs (m³/h) ps [kPa]	ps [kPa]	ps [kPa]	ps [kPa]		
			951-015-2011	15 low	16-400	0.075 -0.0625	400			
			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	ps [kPa] Range	Kvs (m³/h) [kPa]	ps [kPa]	ps [kPa]	ps [kPa]	
			951-0040-15012X	40	30-400	1.0 -7.7			500	
			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



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.

Innovative solution



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

High grade materials



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

Maximum flow limiter



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

Inbuilt pressure regulator



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

P/T Ports - Pressure testing ports



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

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

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

Body: ductile GG25
Stem: AISI 304
Diaphragm: EPDM
Internals:
Standards: BS EN 12266, 1092-2

MOTORIZED CONTROL STROKE VALVES



920/3 Motorized threaded control stroke valve
920/4 Motorized flanged control stroke valve



		ICV No.			9201061/3	9202102/4	9202122/4	9202182/4	
Air handling units	Force (N)			600N	1000N	1200N	1800N		
Fresh air units	Positioning time (50/60Hz)			92/76	105/90	114/95	210/175		
Heating equipment	IP Class			IP54	IP54	IP54	IP54		
Energy distribution	24VAC			Control signal		0-10V-0..20mA, 2-10V/4..20mA, on/off			
				Positioning feedback signal		0-10V, 2-10V		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)	~ps [kPa]	~ps [kPa]	~ps [kPa]	~ps [kPa]
	920-03-1-0015-11061/2	920-03-1-0015-12061/2	15	15	3.1	600			
	920-03-1-0020-11061/2	920-03-1-0020-12061/2	20	15	5	600			
	920-03-1-0025-11061/2	920-03-1-0025-12061/2	25	20	7.4	600			
	920-03-1-0032-11061/2	920-03-1-0032-12061/2	32	20	11.5	550			
	920-03-1-0040-11061/2	920-03-1-0040-12061/2	40	20	14	450			
	920-03-1-0050-11061/2	920-03-1-0050-12061/2	50	20	45	300			
	920-03-2-0065-11101/2	920-03-2-0065-12101/2	65	20	63		300		
920-03-2-0080-110101/2	920-03-2-0080-12101/2	80	20	78		250			
	920-042-0065-13121/3	920-042-0065-14121/3	65	20	75			500	
	920-042-0080-13121/3	920-042-0080-14121/3	80	20	100			500	
	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				

Highlight

Comfortable and energy saving

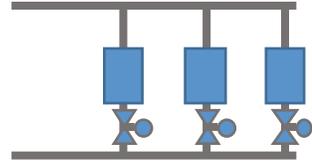
Stroke design control concept offers the most precise control characteristics of the control valve types

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



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



9203702/4
5000N
240/175
IP54

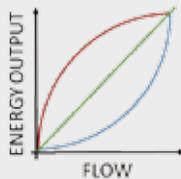
Housing: ABS
Gear: POM, Nylon
Bracket: die casting aluminum alloy

ps [kPa]

Body: brass H62
Stem: stainless steel
Disc/seat: brass H62
Packing: PTFE+NBR

Body: cast iron GG25
Stem: stainless steel AISI 302
Disc/seat: brass
Packing: PTFE+fluororubber

EQ% equal percentage control curve



Equal percentage control characteristics (blue) combines with the energy flow/yield curve of the coil (red) to produce the required energy output in the room (green)

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 2-10/4..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

MOTORIZED CONTROL BALL VALVES



ICV 920/02
Modulating 2 ways



ICV 920/02
On/off 2 ways



ICV 920/02
On/off 3 ways

920/2 motorized control ball valve									
Air handling units Fresh air units Heating equipment Energy distribution	ICV No. modulating control				-	9202101	9202101	9203301	
	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	
	220 VAC	Control signal				2P	-	-	-
		Position feedback					-	-	-
	24 VAC	Control signal				-	0-10V/0..20mA, 2-10V/4..20mA		
Position feedback					-	0-10V, 2-10V			
PN16°0...90 °C	ICV No.	DN	PN	Kvs (m3/h)	\bar{p}_{ps} [kPa]	\bar{p}_{ps} [kPa]	\bar{p}_{ps} [kPa]	\bar{p}_{ps} [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	

Highlights

Cost effective

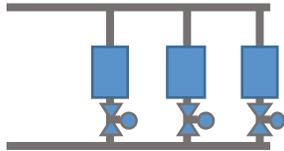
Control ball valves offer adequate control characteristics for affordable price

Easy

Easy mounting saves time during installation.

Safe

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



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

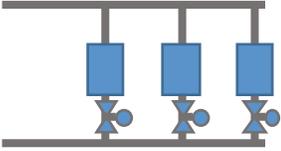
Actuators

- 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)

Actuator: ABS

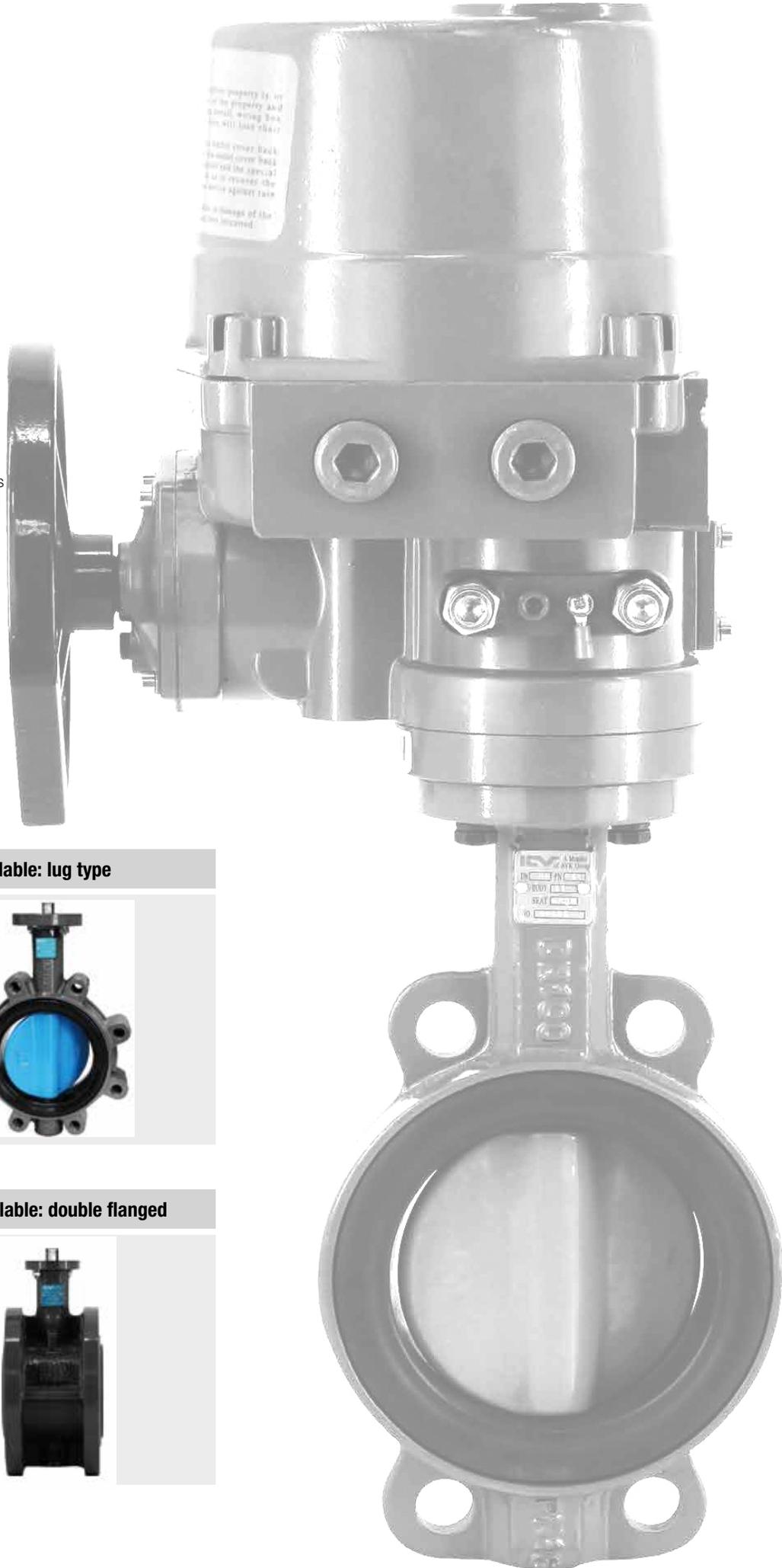
Body: Brass
Seat/gasket: PTFE
Ball: chromed brass CW617N
Stem: stainless steel AISI 304
O-ring: EPDM

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



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



Also available: lug type



Also available: double flanged



Housing: aluminum alloy/Cast iron
 Hand wheel: cast iron
 Open/Close indicator
 Stainless steel AISI 304

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)

Description

D - Actuator type

1 - on/off
2 - on/off dry point
3 - 0-10V / 0-10V
4 - 2-10V / 2-10V
5 - 2-10V / 4-20mA
6 - 4-20mA / 4-20mA

F - Optional features

0 - Standard Hexagon Allen wrench

1 - Hand wheel

G - Optional features

0 - Standard

1 - Potentiometer

H - Optional features

0 - Standard

1 - Electrical heater

I - Optional features

0 - Standard

1 - Dual torque limiter

E - Power

0 - 22VAC

1 - 380VAC (on/off)

2 - 24VAC*

3 - 24VDC**

Housing: epoxy coated aluminum alloy

Open close indicator

High IP protection class

High NEMA motor protection class

Pre-mounted from factory

Lightweight and reliable

Description

Disc: Epoxy coated DI EN-GJS-500/7

Body: DI ductile iron EN-GJS-500/7

GSK approved fusion bonded epoxy coating DIN30677-2

WRAS approved loose concentric EPDM liner

Stem AISI 420 (1.4021)

Flange drilling EN1092-2

Design EN593

Hydraulic test to EN1074-1, 2/EN12266

Optional: SS316 Disk, NBR or high °C EPDM liner

Medium temperature range -10°C - 80°C

Standard AC220V

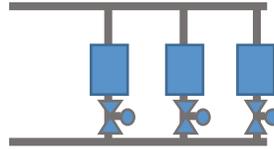
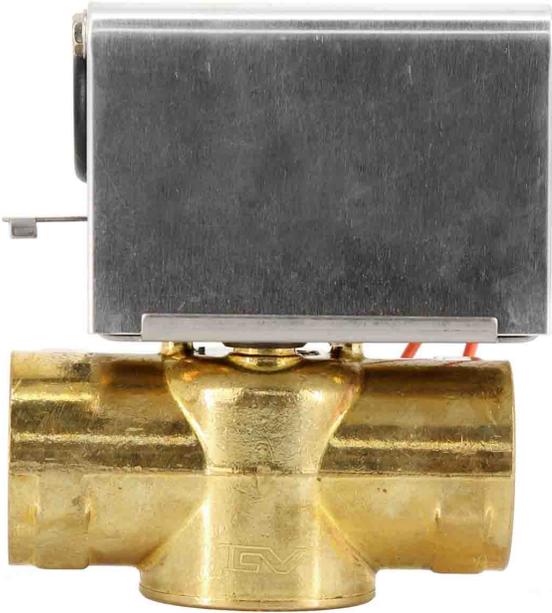
Actuator

- Light weight and small fits into small spaces. Actuator height only between 141 – 186 mm
- Wide range available from 50 Nm to 2000 Nm ensures economical fit of valve and actuator
- Produced according to JB and CE standards
- IP68 extra high protection class suitable for outdoors installations
- Auto-calibration ensure correct position feedback and correct functional integration of the valve and actuator
- Optional internal heating element ensures that condensation doesn't damage the circuits
- Optional easy to use large handwheel for manual override during commissioning
- Self-locking gear train for stable torques and long life
- Dew barrier disc DN50-300

ICV 76 butterfly valves

- Premium butterfly valve designed for HVAC, supply drainage and drinking water systems
- Long neck for temperature insulation. Mounted with dew barrier disc between valve and actuator for better anti-condensation protection
- Reinforced seating area at shaft. Shaft holes dimensioned to create compression around the shaft
- Integrated, profiled flange gasket
- Pin less and two stub shaft design
- PPOM bearings and an EPDM O-ring as backup sealing for no leakage
- PTFE coated bearings at the top and bottom of the disc for low friction
- The rubber ensures minimum biofilm formation which prevents contamination of the drinking water
- The rubber is approved for drinking water applications

MOTORIZED ON/OFF VALVE



Recommended application:
For on/off control of fan coils

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

ICV 920-1
Motorized on/off valve for fancoils
Offers on/off control of fan coils

220VAC

On/off

PN16' to 90°C

ICV No. 2-way

mm

ps
[kPa]

Kvs m³/h



920-01-0015-2

15

180

2

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

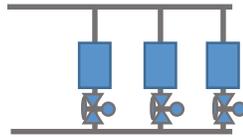
25

180

3

Body: DZR brass
Disc: NBR
Stem: stainless steel
Actuator housing Aluminium alloy and ABS
Thread to BS 21
Hydraulic tested to EN 12266

MOTORIZED DYNAMIC BALANCING VALVE



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.

Materials

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

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

Fan coils



~ps 380 kPa	Force (N)	Stroke	IP	955-000-9901 24		955-000-9902 110		955-000-9903 220		
				VAC	VAC	VAC	VAC			
~ pmax 230 kPa PN25 -10° to 130N		4mm	IP40/44	Min ~p (kPa)	ICV No. (L/H)	Flow (l/s)	Min ~p (kPa)	Min ~p (kPa)		
120°C	ICV No.(L/H)		Flow (l/s)							
 955-015-20-1 955-020-20-1 955-025-20-1	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 ~p (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		

DELTAMATIC BALANCING VALVE

-20°C to 120°C dP _{max} (600/350 kPa)	DN15-25 PN25	ICV No. (L/H)	Flow (l/s)	Min \bar{p} (kPa)	ICV No. (L/H)	Flow (l/s)	Min \bar{p} (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 \bar{p} (kPa)
	952-15-20-10	952-10 1/2 1300	0.032	10	952-20 1/2 2070	0.283	22
	952-20-20-10	952-10 1/2 1320	0.036	11	952-20 1/2 2074	0.3	22
	952-25-20-10	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

	DN32-50	ICV No. (L/H)	Flow (l/s)	Min \bar{p} (kPa)	ICV No. (L/H)	Flow (l/s)	Min \bar{p} (kPa)
		952-30 1/2 3073	0.188	12	952-40 1/2 4148	1.009	20
		952-30 1/2 3082	0.239	12	952-40 1/2 4152	1.072	21
		952-30 1/2 3089	0.283	12	952-40 1/2 4156	1.136	21
		952-30 1/2 3094	0.315	12	952-40 1/2 4164	1.199	21
		952-30 1/2 3096	0.331	12	952-40 1/2 4168	1.262	22
		952-30 1/2 3098	0.353	13	952-40 1/2 4173	1.325	22
		952-30 1/2 3102	0.375	13	952-40 1/2 4176	1.388	23
		952-30 1/2 3107	0.413	13	952-40 1/2 4182	1.514	24
		952-30 1/2 3111	0.435	14	952-40 1/2 4191	1.64	25
	952-32-20-10	952-30 1/2 3112	0.453	14	952-40 1/2 4194	1.766	26
	952-40-20-10	952-30 1/2 3118	0.504	14	952-40 1/2 4200	1.893	27
	952-50-20-10	952-30 1/2 3124	0.556	15	952-40 1/2 4205	2.019	28
		952-30 1/2 3125	0.568	16	952-40 1/2 4211	2.145	30
		952-30 1/2 3129	0.603	16	952-40 1/2 4217	2.271	31
		952-30 1/2 3132	0.631	17	952-40 1/2 4222	2.397	33
		952-30 1/2 3135	0.661	17	952-40 1/2 4229	2.523	34
		952-30 1/2 3138	0.694	18	952-40 1/2 4235	2.65	36
		952-30 1/2 3142	0.733	18	952-40 1/2 4241	2.776	38
		952-30 1/2 3148	0.797	19	952-40 1/2 4248	2.902	40
		952-30 1/2 3156	0.886	21	952-40 1/2 4250	3.028	42
	952-30 1/2 3161	0.946	22	952-40 1/2 4262	3.154	44	

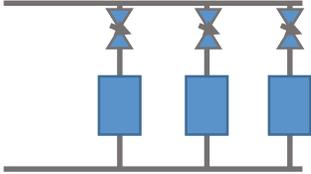
		ICV No.	DN	Types
	ORIFICE P TYPE 10	952-XXXX	15-25	0.007-0.151
	ORIFICE P TYPE 11	952-XXXX	15-25	0.171-0.260
	ORIFICE P TYPE 20	952-XXXX	15-25	0.283-0.680
	ORIFICE P TYPE 30	952-XXXX	32-50	0.188-0.968
	ORIFICE P TYPE 40	952-XXXX	32-50	1.009-3.154
		ICV No.	DN	
	LOCKING RING FOR 10/11/20	952-0000-11	15-25	
	LOCKING RING FOR 30/40	952-0000-31	32-50	

952 DN15-50:

- Valve and cartridge: DZR Brass to EN CW602N
- Diaphragm: (reinforced) HNBR(LP/HP)
- O-rings: EPDM
- Pressure class: PN25
- Temperature: -20°C to 120°C
- Diff. differential pressure: 7-600 kPa
- Thread: ISO 228

953 DN50-800 housing

- Body: ductile iron DIN 1693 GGG-40
- Cartridge: SS304/316
- O-rings: EPDM
- Fasteners: AISI 306
- Pressure class: PN16 (PN25)
- Temperature: -20°C to 110°C
- Diff. differential pressure: 13-600 kPa



Recommended application:

- Installed on the supply pipe of equipment needing constant flow (i.e. refrigeration water for chillers).
- Balances the dynamic and static differential pressure and supply for equipment by ensuring a constant flow. May be installed in conjunction with motorized on/off valves but not typically with modulating motorized control valves.

Cartridges for Automatic Balancing Valve DN50-800, Deltamatic

-20 C to 120 C	DN50-800 PN25	Max pcs	ICV No. (SS304/316)	Flow (l/s)	Min Δp (kPa)	ICV No.(SS304/316)	Flow (l/s)	Min Δp (kPa)	
			953-50 1/2 5179	1.061	13	953-60 1/2 6285	4.733	34	
			953-50 1/2 5184	1.092	13	953-60 1/2 6292	5.041	34	
			953-50 1/2 5189	1.125	13	953-60 1/2 6301	5.221	35	
			953-50 1/2 5194	1.167	13	953-60 1/2 6305	5.408	35	
		953-0050-21-01	1	953-50 1/2 5200	1.222	13	953-60 1/2 6312	5.684	35
		953-0065-21-01	1	953-50 1/2 5206	1.289	14	953-60 1/2 6319	5.98	36
		953-0080-21-01	1	953-50 1/2 5213	1.375	14	953-60 1/2 6326	6.236	36
		953-0100-21-01	2	953-50 1/2 5220	1.475	14	953-60 1/2 6332	6.523	36
		953-0125-21-01	3	953-50 1/2 5227	1.583	14	953-60 1/2 6338	6.815	37
		953-0150-21-01	4	953-50 1/2 5235	1.725	14	953-60 1/2 6344	7.117	38
		953-0200-21-01	7	953-50 1/2 5243	1.808	14	953-60 1/2 6349	7.369	38
		953-0250-21-01	12	953-50 1/2 5251	1.967	14	953-60 1/2 6356	7.69	38
		953-0300-21-01	15	953-50 1/2 5260	2.194	15	953-60 1/2 6362	8.099	38
		953-0350-21-01	19	953-50 1/2 5269	2.472	16	953-60 1/2 6367	8.32	39
		953-0400-21-01	26	953-50 1/2 5279	2.889	19	953-60 1/2 6373	8.605	39
		953-0450-21-01	33	953-50 1/2 5287	3.154	22	953-60 1/2 6379	8.961	40
		953-0500-21-01	40	953-50 1/2 5292	3.47	23	953-60 1/2 6385	9.324	40
		953-0600-21-01	56	953-50 1/2 5298	3.722	24	953-60 1/2 6391	9.709	40
		953-0800-21-01	85	953-50 1/2 5303	4.1	27	953-60 1/2 6393	10.093	42
				953-50 1/2 5308	4.444	29	953-60 1/2 6398	10.468	43
						953-60 1/2 6400	10.724	44	
						953-60 1/2 6407	11.381	46	
						953-60 1/2 6408	12.500	49	
Accessories		ICV No.		Accessories		ICV No.			
BLIND PLUG		953-001-0000		LOCKING RING FOR CAR. DN50-80		953-00-100			
CAR. BODY TYPE 50 HP		953-501-0000		BOLT M10*20		953-00-2001			
CAR. BODY TYPE 60 HP		953-601-0000		SLICE Ø25 * Ø10		953-00-2002			
ORIFICE P TYPE 50		953-XXXX		SLICE Ø20 * Ø10		953-00-2004			
ORIFICE P TYPE 60		953-XXXX		DISTANCE		953-00-2003			
LOCKING RING FOR ORIFICE P		953-0000-51		EYE BOLT		953-00-300			
LOCKING RING FOR CAR. DN50-80		953-00-100							

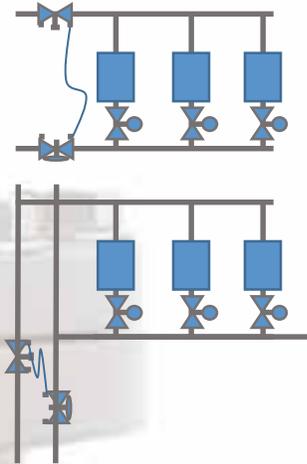
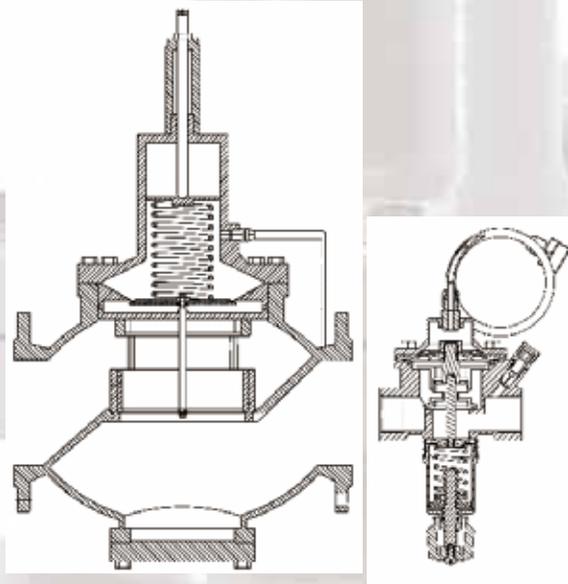
DELTACONTROL DIFFERENTIAL PRESSURE CONTROLLER



0 - 90°C	ICV No	DN	PN	$q_{min} / q_{max} / q_{nom}^*$	Control \bar{p} kPa min-max	Working \bar{p} kPa min-max	Main components and standards
	908-03-0015-1005	15	16	0.6/1.0/2.5	20 - 80	20 - 300	Body, seat, bonnet, tube: Brass H62 Diaphragm EPDM Spring: stainless steel AISI 30 Adjustment wheel: ABS BS 21 / BS EN 12266
	908-03-0020-1005	20	16	1.2/1.8/4.0	20 - 80	20 - 300	
	908-03-0032-1005	25	16	1.9/2.6/6.0	20 - 80	20 - 300	
	908-03-0032-1005	32	16	2.62/3.8/8.5	20 - 80	20 - 300	
	908-03-0040-1005	40	16	3.9/6.5/14.5	30 - 100	20 - 300	
	908-03-0050-1005	50	16	6.6/9.4/21	30 - 100	20 - 300	
0 - 90°C	ICV No	DN	PN	$q_{min} / q_{max} / q_{nom}^*$	Control \bar{p} kPa min-max	Working \bar{p} kPa min-max	Main components and standards
	908-03-0015-3004	15	25	0.05/0.60/3.60	5 - 30	20 - 400	Body: DZR brass DP cartridge: PPS 40% glass Flow setting kit: PPO Spring: Stainless steel Diaphragm: HNBR Pressure tube: Brass GB/T 13927, GB/T 7307
	908-03-0015-300401*	15	25	0.10/1.20/3.60	20 - 60	20 - 400	
	908-03-0020-3004	20	25	0.10/1.00/4.00	5 - 30	20 - 400	
	908-03-0020-300401*	20	25	0.15/2.00/4.00	20 - 60	20 - 400	
	908-03-0025-3004	25	25	0.60/4.20/9.50	5 - 30	20 - 400	
	908-03-0025-300401*	25	25	0.70/4.20/9.50	20 - 60	20 - 400	
	908-03-0032-3004	32	25	1.00/5.00/11.4	20 - 80	20 - 400	
	908-03-0040-3004	40	25	3.00/8.00/16.4	20 - 80	20 - 400	
	908-03-0050-3004	50	25	5.00/15.0/17.9	20 - 80	20 - 400	
0 - 100°C	ICV No (PN16/25)	DN	PN	$q_{min} / q_{max} / q_{nom}^*$	Control \bar{p} kPa	Working \bar{p} kPa	Main components and standards
 	908-03-0050-1103/3103	50	16/25	2.0/17/32	20-80*/40-160	30 - 300	Body, bonnet: ductile GGG40 Seat, disc, spring, stem: Stainless steel AISI 304 Diaphragm EPDM P/T port DZR Brass CW617N BS EN 12266/1092-2
	908-03-0065-1103/3103	65	16/25	4.2/25/50	20-80*/40-160	30 - 300	
	908-03-0080-1103/3103	80	16/25	5.5/40/80	20-80*/40-160	30 - 300	
	908-03-0100-1103/3103	100	16/25	6.5/65/125	20-80*/40-160	30 - 300	
	908-03-0125-1103/3103	125	16/25	8.0/90/160	20-80*/40-160	40 - 400	
	908-03-0150-1103/3103	150	16/25	18/154/280	20-80*/40-160	40 - 400	
	908-03-0200-1103/3103	200	16/25	40/180/320	20-80*/40-160	40 - 400	
	908-03-0250-1103/3103	250	16/25	xx/499/910	10 - 160	40 - 400	
	908-03-0300-1103/3103	300	16/25	xx/767/1400	10 - 160	40 - 400	
	908-03-0350-1103/3103	350	16/25	xx/959/1750	10 - 160	40 - 400	
908-03-0400-1103/3103	400	16/25	xx/1542/2815	10 - 160	40 - 400		
908-03-0450-1103/3103	450	16/25	xx/1991/3935	10 - 160	40 - 400		

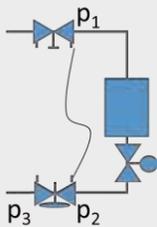
* Q_{nom} is the maximum theoretical flow at 100kPa

The required differential pressure is adjustable using the stem/knob.
 Design on stroke principle ensures high stability



Recommended application:

The 908-3 differential pressure controller is installed on the return pipe and connected to the 908 manual balancing valve on the supply pipe through the copper tube. Offers precise and adjustable differential pressure balancing across flow and return pipes keeping the controlled hydraulic branch, building, or unit free of external pressure and flow fluctuations.

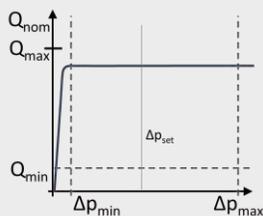


Control range: $P_1 - p_2$ is the adjustable differential pressure control range ensuring a constant total flow across the branch.
 Working range: $P_2 - p_3$ is the working range across the valve which must be maintained for it to function properly

P/T Ports - Pressure testing ports

- Safe and easy calibration of differential pressure flow (Δp) using the ICV PFM Bluetooth commissioning instrument.
- The flow rate and Δp matrix of ICV's balancing valves are in the database of the instrument ensuring correct and easy commissioning

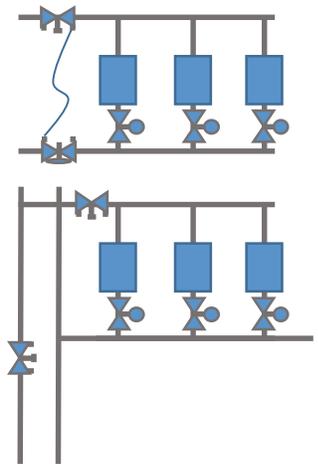
High control accuracy in wide balancing range



Deltaflow™ maintains a very precise +/-5% constant control Δp across the branch ($p_1 - p_2$).
 The total flow of the modulating control valves is kept stable at whichever setpoint (Q) regardless of outside influences.



DELTAFLOW MANUAL BALANCING VALVES



Recommended application:
Manual (static) balancing valves are installed on supply pipes to limit the maximum flow based on calculated flow requirements to avoid overflow which is not energy efficient and which would otherwise cause underflow in other parts of the system.

0 to 90°C	ICV No. PN25	DN	PN	Kvs max (m³/h)	Weight (kg)	
	908-02-0015-3	15	25	2.2	0.58	Body: bronze CC491K Bonnet: DZR Brass CW602N/ bronze CC491K (DN15-25/32-50) Stem, disc, ring, P/T ports: DZR brass CW602N Flow orifice, drive sleeve: brass EN CW617N Seat PTFE DN25-50, O rings: EPDM Standards testing: BS EN 12266-1&2, Thread: BS 21
	908-02-0020-3	20	25	4.6	0.65	
	908-02-0025-3	25	25	8.5	0.89	
	908-02-0032-3	32	25	16.7	1.11	
	908-02-0040-3	40	25	26.1	1.46	
	908-02-0050-3	50	25	43.2	1.98	
-10 to 110°C	ICV No. PN16/25	DN	PN	Kvs max (m³/h)	Weight (kg)	
	908-0065-00-136/736	65	16/25	83	13.00	Body, bonnet, plug (corrosion protected): ductile iron GJS-500-7 Stem: Stainless steel 1.4021 Sealing: NBR rubber P/T ports: DZR brass CW602N Flanges: EB558 Drilling standard EB1092 (ISO7005-2) Test: EN12266-1&2 Design: BS7350:1990 (PN16)
	908-0080-00-136/736	80	16/25	101	15.00	
	908-0100-00-136/736	100	16/25	200	22.00	
	908-0125-00-136/736	125	16/25	275	30.00	
	908-0150-00-136/736	150	16/25	385	42.00	
	908-0200-00-136/736	200	16/25	572	64.00	
	908-0250-00-136/736	250	16/25	1214	134.50	
	908-0300-00-136/736	300	16/25	1673	191.00	
	908-0350-00-136/736	350	16/25	2251	302.50	
	908-0400-00-136/736	400	16/25	2882	408.20	



ICV 908/02
Manual balancing valve



ICV 908/00
Manual balancing valve



Design made easy / fast and safe

- Wide range of solutions for hydraulic balancing (both static and dynamic) available makes design and selection safe and simple Precise visible measurement and scaling of flowrates means you get what you design
- Installation made fast and easy Easy to understand standardized flowrates and equal percentage design saves time and protects against installation mistakes
- Easy commissioning using ICV PFM
- Bluetooth commissioning tool means static balancing is simple and fast

Investments made safe

- High grade materials and intelligent design ensures functionality and a lifetime longer than usual
Reliable and precise functionality satisfies the user and protects against complaints and later needs for refurbishments

Comfort made safe

- Precise static balancing ensures that all coils and users are protected against underflow receiving the necessary energy to maintain the desired comfort level
- Protects against overflow, resulting in lower cost and less wear on equipment

Highlights

A safe investment

Very wide range of intelligently designed valves from DN15-400 using high grade materials

Easy installation

Precise and visible measurements and tamper protection, with added benefits of ICV's own PFM Bluetooth commissioning tool

Safe

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



HVAC systems

ICV offers a high quality dedicated range of products for water-based HVAC systems in buildings - heating, ventilation, air conditioning and cooling. The range typically includes threaded valves from DN15-50 and flanged valves from DN65-600 and above. Motorized control valves i.e. series 920 or motorized butterfly valves (925/06, 925/76 etc.) are installed on the return pipes of equipment in the HVAC system (chiller, cooling tower, air handling or fresh air units and terminal equipment like fan coils to control the onemand flow of energy. The control signals of ICV's motorized valves seamlessly integrate with any building automation system or building controller. HVAC systems are closed circuit systems and balancing is therefore essential to prevent overflow or underflow and ensure energy saving. ICVs wide range of balancing valves including series 951 PICV (pressure independent motorized control valve), and series 908 balancing valves including differential pressure balancing valves, dynamic fixed flow balancing valves, and of course static/manual balancing valves etc. General valves (manual) valves are installed in large numbers throughtout the HVAC system, typically as shut-off valves i.e. series 76 butterfly valves on supply and return pipes before and after motorized control valves to allow for regular equipment maintenance and repairs without having to clear the entire system of water. This very wide series covers all needs and includes also check valves (series 903) installed after pumps to prevent backflow and damage, strainers (series 910) to sift out debris in water to prevent damage to system, flexible and expansion joints (series 911) used to prevent leakage or noise as the system expands and contracts during use and many other valves.



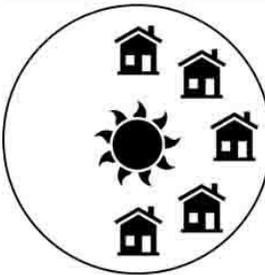
Plumbing and hydraulic balancing in buildings

ICV's manual valves covers most plumbing needs in commercialized buildings i.e. bronze valves, butterfly valves, globe valves, Y strainers etc are used throughout the plumbing system in buildings, and these types of valves are typically installed in large numbers. Hydraulic balancing is essential in the open-ended plumbing systems as well. AVK's series 859 of pressure reducing valves, pressure sustaining valves, constant flow valves, float level valves, solenoid valves as well as other configurations and offeres excellent and precise control of water flows. Series 854 ball float valves, 924 water hammer arrestors, and a wide range in ICV's series 970 of hydraulic balancing valves.



Fire safety valves

ICV delivers its wide range of general valves as well as hydraulic balancing valves for in the mechanical part of the fire safety system and is ensuring safety in water supply in countless building projects. AVK's offering also includes hydrants.



District cooling and district heating

ICV through AVK's market leadership in the infrastructure water business has a unique advantage in supplying large valves for large district cooling systems.

AVK is a leading industrial production company of Denmark, where district heating system networks are exceptionally well-developed, and where energy saving, and environmental policies ensure a safe and efficient living environment. AVK and its many fully owned industrial valve brands have been selling general valves i.e. butterfly valves for district heating

systems for many years.

Likewise, in warmer climates, the use of district cooling system as a means of increased energy efficiency and environmental protection is becoming more prevalent. ICV has delivered many general valves i.e. 756 double flanged double eccentric butterfly valves, series 76 concentric loose liner butterfly valves and other general valves to many systems. Balancing valves are also supplied thanks to ICV's very wide range with balancing valves up to very large sizes, typically manual balancing valves and differential pressure balancing valves (908). Motorized valves typically include series 756 and 76 butterfly valves ensuring seamless integration in the SCADA control system as all standard control and feedback signals are supplied.



Data-centres

Trust and reliability is essential when selecting valves to protect the huge equipment investment for data centers and hubs for today's electronic information society. For safety reasons typically a redundant (safety) system is installed, higher pressure classes at PN25 are selected and higher close off pressures of motorized valves are preferred. For butterfly valves sold in large numbers as pipe sizes are usually larger we also recommend using stainless steel disc series 76, or double flanged double eccentric butterfly valves series 756 for both manually or motorized control. Y-strainers, check valves, flexible and expansion joints, static and

dynamic balancing valves etc.

The entire wide offering of products typically offered for building HVAC are also available for data-centres in suitable designs: General valves, Motorized valves, Balancing valves, Hydraulic balancing valves



AVK Philippines, Inc.

#70 West Avenue, Brgy. West
Triangle 1104 Quezon City,
Philippines.

Tel.: +6323766399 / 6400-6402
www.avk.ph/en
sales@avk.ph

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