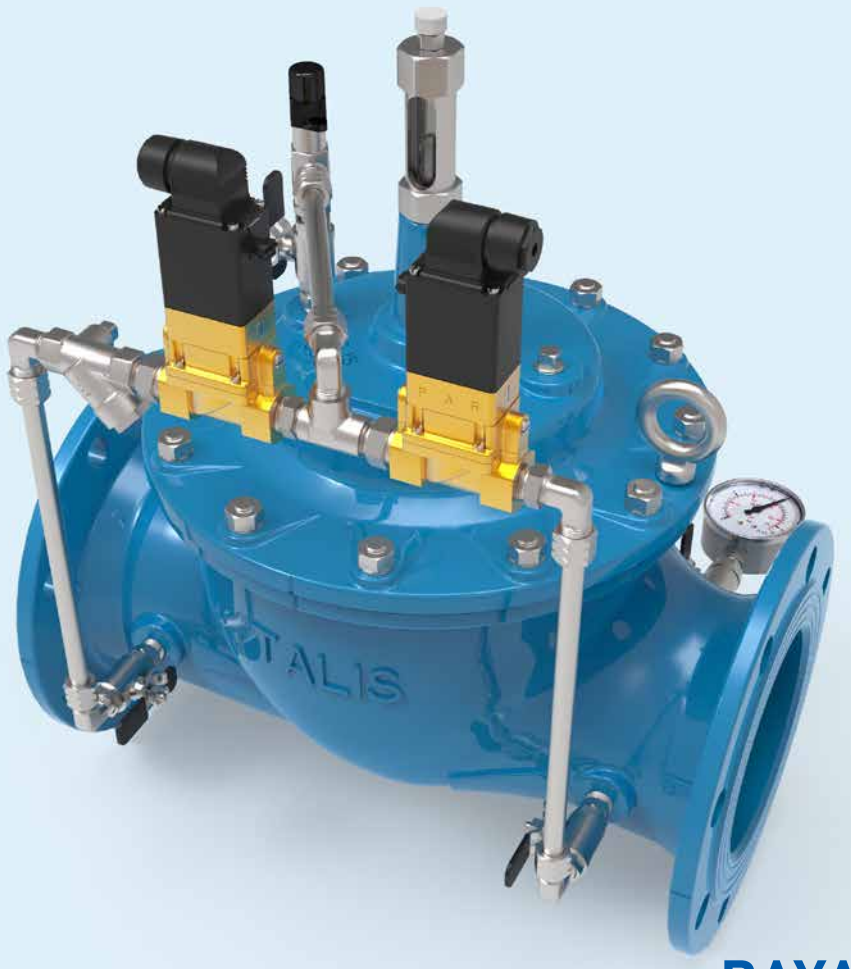
BAYARD
BY TALIS

HYDRELEC PREMIUM
Series K4 21 or K4 31



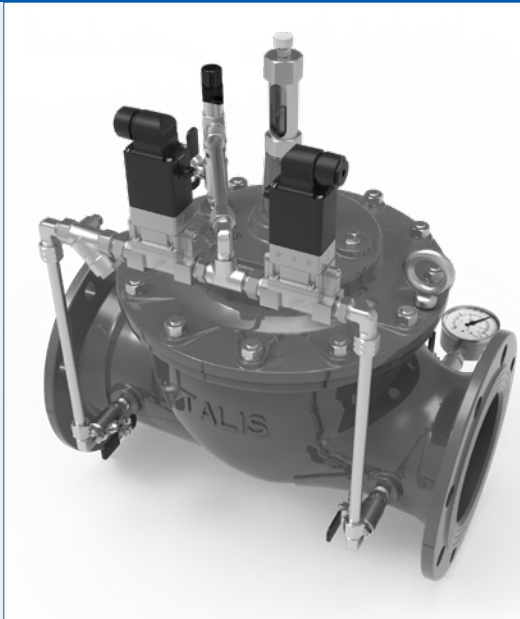
BAYARD RANGE

PBR0021A-EN_2025-02-26

HYDRELEC STEP-BY-STEP CONTROL VALVE

SERIES K4 21

Based on the latest developments of the Hydrobloc system, the Hydrobloc, the Hydrelec step-by-step Premium K4 21 uses high quality materials and a proven design to guarantee our customers exceptional service life, accuracy and functionality.



FUNCTION

Hydrelec step-by-step Premium K4 21 is a control valve which permit to control the opening and closing speed of the valve. This version permit to position and bloc the valve in a precise position.

MAIN ADVANTAGES: PERFORMANCE & DURABILITY

- **Strength and durability** with a pilot circuit entirely* made from stainless steel 316. The internal moving parts are entirely made from stainless- steel 316 up to DN 200mm —unique solution on the market as standard — provides high durability and performance even in harsh conditions of use, such as major upstream/ downstream pressure differences.
- **Resistance to corrosion** by application of a minimum 250µm coating and the use of connecting pieces passing through the valve body.
- **High performance and durability** ensured by the use of a new, high density, EPDM, preformed diaphragm.
- **Easy service and simplified maintenance:** delivered with simplified instructions and upstream and downstream pressure gauges. The pilot circuit is completely disassembled in three points using new axial, gasketless leaktightness connecting pieces.

*Not including ball valve body

APPLICATIONS

Desalination · Transport · Distribution · Dam · Water treatment · Industry

COMPLIANCE WITH STANDARDS:

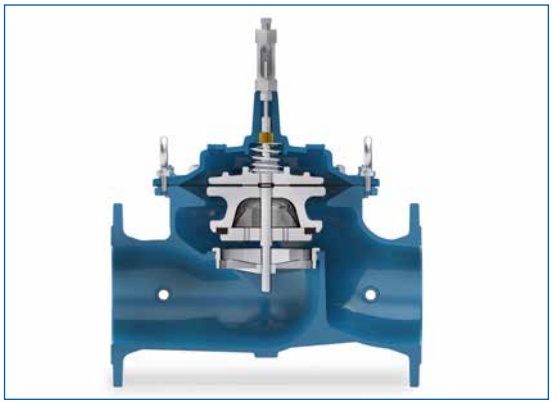
- NF EN 1074-5.
- Category A leak-tightness as per ISO 5208-2.
- Compliance with Standard EN 12266.
- Face-to-face dimensions NF EN 558-1 and ISO 5752-1.
- Connection flange drilling as per EN 1092-2 and ISO 7005-2 ISO PN 10 as standard, ISO PN 16, ISO PN 25 or other drillings for DN 50 to 400 (please consult us).
- **Attestation of Sanitary Conformity (A.C.S.)**

USES

- Regulation valves can be:
  - Installed both in new works or existing installations.
  - Installed in valve chambers or buildings, in all cases with frost protection.
- The use of the Hydrelec step-by-step control valves enables:
  - Step-by-step opening/closing/locking at a controllable speed via two solenoid valves.
  - Start-up and shut-down of pumping stations,
  - Changes to the flow rate conditions and/or pressure within a network,
  - Control of remotely managed networks (generally fitted with a remote management sensor head), etc...

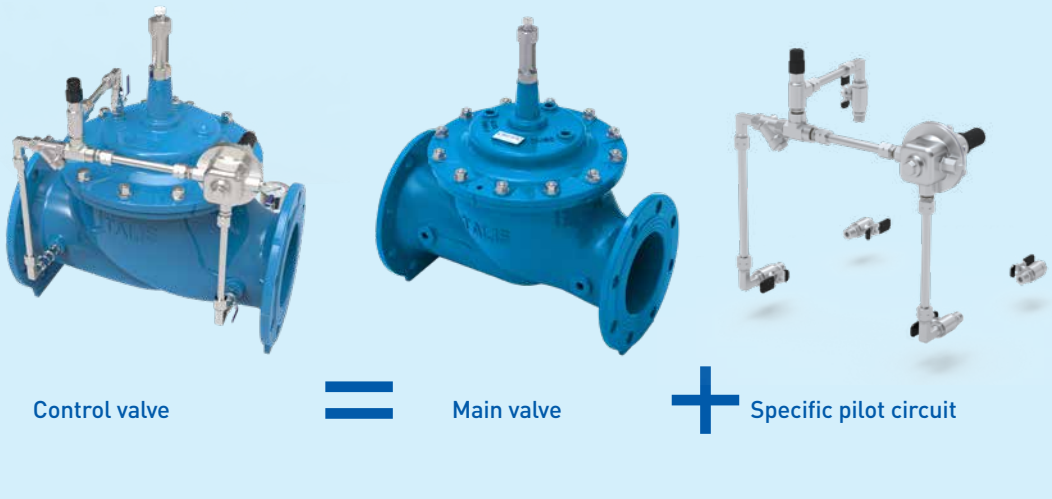
MAIN TECHNICAL DATA

- PFA 10, 16 or 25 bar depending on the applications
- DN 40 to 400 with standardised flanges.
- Leak-tightness at nil flow rate.
- Operating temperatures from 0°C to 65°C.
- Flow medium: 2mm screened potable or raw water.
- Optional anti-cavitation kit ACD040 with slotted cylinders.
- Assembly of the pilot circuit on the right strand as standard, on the left strand by request.
- Numerous options available on the main valve or the pilot device (see page 8-9-10).



Section of main valve XG

PRINCIPLE OF THE HYDROBLOC PREMIUM SYSTEM



THE TECHNICAL ADVANTAGES OF THE HYDRELEC STEP-BY-STEP CONTROL VALVE

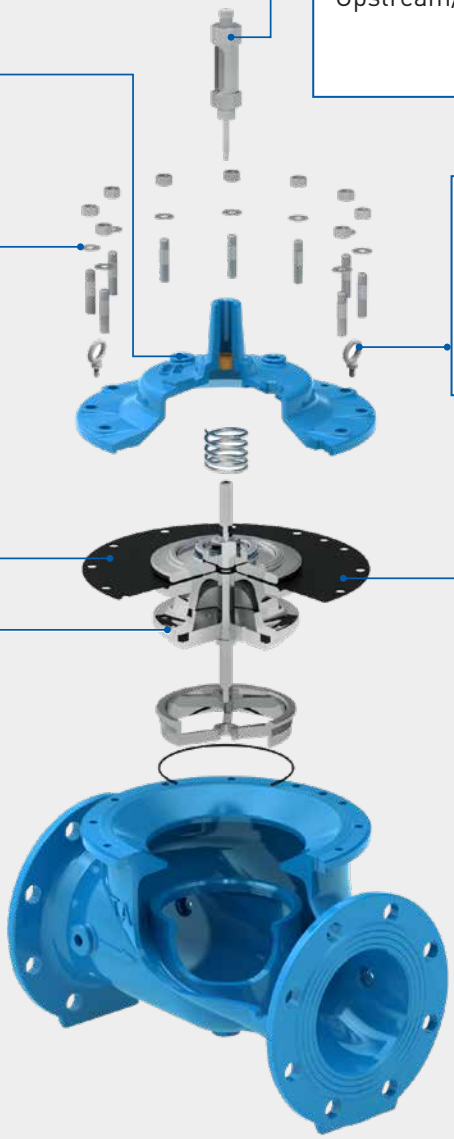
MAIN VALVE OPTIMISED FOR LONG-LASTING INVESTMENT:

NO RISK OF CORROSION:
Full hot epoxy coating with ***minimum thickness 250µ.***
Specific boss profile (pilot circuit connection areas): all drilling coated and protected.

EASY COMMISSIONING AND CONTROL:
Position indicator made from stainless steel 316 with high resistance glass.
Integrated manual air release valve.
Upstream/downstream pressure gauges supplied as standard.

EASY INSTALLATION:
Lifting rings on all diameters.
Reduced overall size of the pilot circuit.
No straight length upstream or downstream required.

EASY MAINTENANCE:
The use of ***studs*** and a ***preformed diaphragm*** facilitates disassembly and re-assembly operations.



ECONOMY:
All moving parts and seat made entirely from ***stainless steel 316**** ensure exceptional durability and reliability. This improves and reduces the cost of network operation.

PERFORMANCE AND DURABILITY:
High density preformed diaphragm (individual manufacturing process), naturally positioned in the body of the Hydrobloc ***without elongation*** for increased service life and responsiveness.
New body design for enhanced flow performance and reduced loss of pressure.

CUSTOMER and USER SATISFACTION:
Use of the ***"small flow" SPD device*** as standard ensures stability and set-point precision over the full range of operation.
Untimely variations in pressure are impossible.

*Up to DN 200 XGS and DN 150 XG

THE TECHNICAL ADVANTAGES OF THE HYDRELEC STEP-BY-STEP CONTROL VALVE

PILOT CIRCUIT OPTIMISED FOR DURABILITY, ACCURACY AND EASIER MAINTENANCE:

RELIABILITY AND DURABILITY:

Circuit and components entirely made from stainless steel 316* for high resistance to conditions of use, even the most extreme. Unalterable external appearance regardless of the environment.

EASY MAINTENANCE:

Pilot circuit disassembled in three points.

New axial metal/ metal leak-tightness connecting pieces facilitate disassembly, reassembly or modifications.

New maintenance-free opening retarder.

New filter with increased filtering surface area for reduced maintenance frequency.

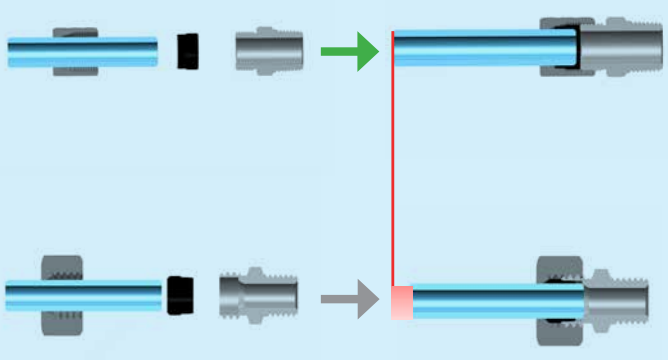
EASY COMMISSIONING and CONTROL:

New isolation control valves made from stainless steel 316 and plastic coated.

Simplified installation, commissioning and maintenance instruction leaflet.

New BAYARD axial leak-tightness connecting pieces without insert.

Previous version with insert.

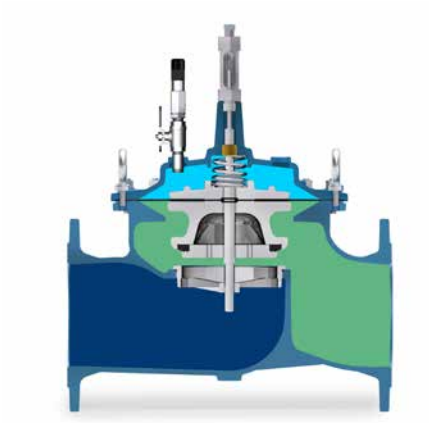


The new connecting piece enables:

- Easier lateral disconnection for quick maintenance.
- Easy piping disconnection in the event of modification to be made that no longer takes account of the length to be inserted into the connecting piece (Part).

*Not including valve body.

GENERAL OPERATING PRINCIPLE



DESCRIPTION

The Downstream Hydrostab Premium comprises:

- A MAIN VALVE comprising an upstream zone (dark blue), a downstream zone (green) and a control chamber (light blue), isolated from the latter by a diaphragm.
- **Closure of the valve**

  Closure of the solenoid valve on the downstream pipe while the solenoid valve on the upstream pipe is open causes water to flow into the base valve inspection chamber, thereby making it close.
- **Opening of the valve**

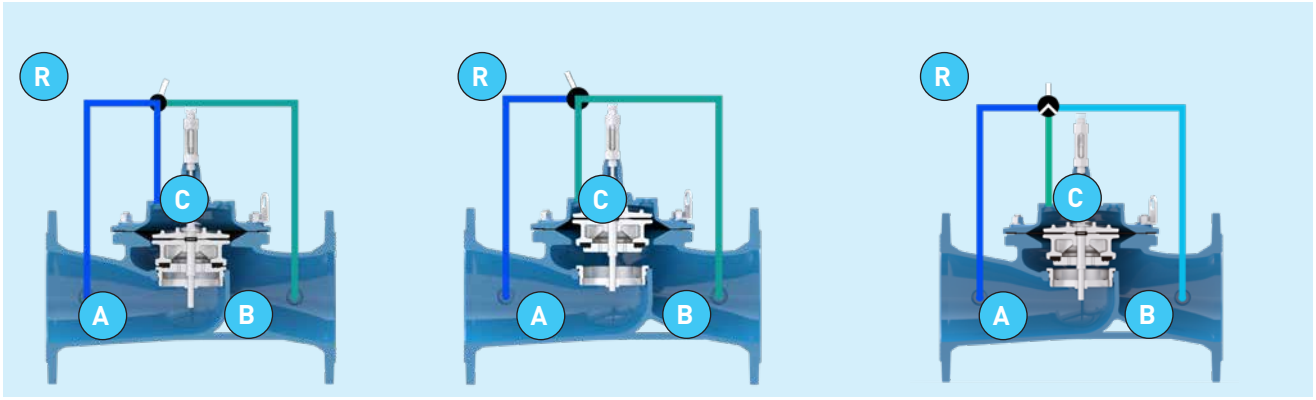
  The opening of the solenoid valve on the downstream pipe while the solenoid valve on the upstream pipe is closed causes the water to be emptied from the base valve inspection chamber, thereby making it open.
- **Locking of the valve in an intermediate position**

  The simultaneous closure of both the upstream and downstream solenoid valves locks the valve in an intermediate position.

  Opening and closing operations on the two solenoid valves enable the device to be set in any position between fully open and fully closed.

GENERAL OPERATION OF THE HYDROBLOC PREMIUM REGULATION VALVE:

The regulation valve is under the control of its pilot circuit.



CLOSING

From the upstream zone to the chamber:

- The valve **(R)** lets water into the chamber **(C),** which fills due to upstream pressure.
- The forces that push the moving parts downwards are the strongest.

Conclusion: "to close a Hydrobloc Premium valve, the chamber needs to be filled".

OPENING

From the chamber to the downstream zone:

- The valve **(R)** prevents the water from entering the chamber **(C).** It lets the water leave the chamber **(C).** It empties towards the lower downstream pressure **(B)**.
- The forces that push the moving parts upwards are the strongest.

Conclusion: "to open a Hydrobloc Premium valve, the chamber needs to be emptied".

BLOCKING

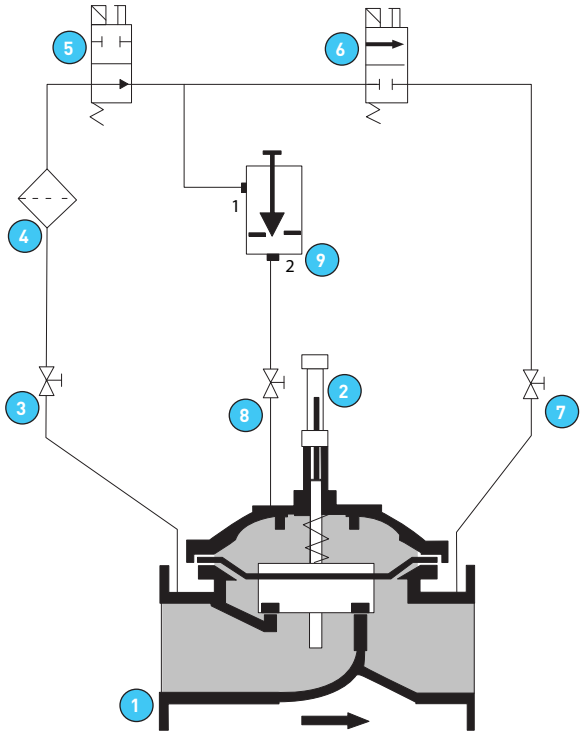
Or chamber isolation:

- The valve **(R)** prevents the water from entering or leaving the chamber **(C).** The operating chamber is blocked.
- So the forces cannot vary.

Conclusion: "to keep the Hydrobloc Premium valve in an intermediate position, the volume in the chamber must not change".

PILOT CIRCUIT OPERATING PRINCIPLE

OPERATION OF THE HYDRELEC STEP-BY-STEP PILOT CIRCUIT



Part no.	Designation	N.B.
01	Main valve	1
02	Position indicator	1
03/07/08	Ballcock FF G 3/8	3
04	Sieve filter G 3/8	1
05	Solenoid valve: step-by-step version NO	1
06	Solenoid valve: step-by-step version NC	1
09	Bi-directional speed controller	1

STATUS OF THE BASE VALVE AND CHARACTERISTICS OF THE SOLENOID VALVES

Valve fail-safe position	Upstream solenoid valve	Downstream solenoid valve	Comments
NCDC	NODC	NCDC	Standard product
NODC	NCDC	NODC	Available on request
NLDC	NCDC	NCDC	Available on request

NCDC: normally closed, disconnected
NODC: normally open, disconnected
NLDC: normally locked, disconnected

CHARACTERISTICS OF THE SOLENOID VALVES

Connections	Setting range	IP protection	Kv en m3/h	Standard supply	Other supply on demand	Consumption
operation	0.2 to 16 bar	IP 65	4,0	24V/50Hz	220V/50Hz-48V/50Hz 12V DC - 24V DC	AC: 21 VA (Inrush) 12 VA/8 W (continuously) DC: 8 W

Solenoid valves with manual drive facilitating commissioning trials and valve maintenance.

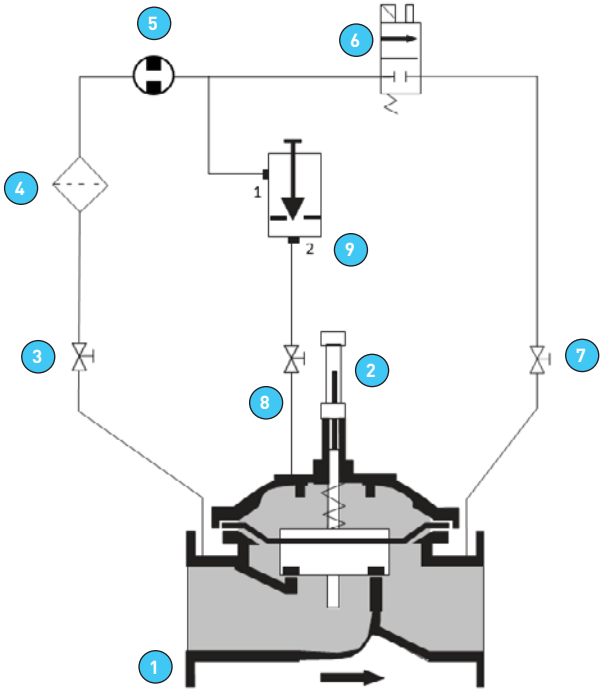
When ordering it is essential to specify the voltage of the solenoid valves and the desired fail-safe position for the main valve.

ON/OFF VALVE - SERIES K4 31

APPLICATIONS OF ON/OFF MODEL (SERIES K4 31)

- Normally Open or Normally Closed for closing application,
- Opening and closing controlled by solenoid,
- Starting pump on closed valve,
- Level control associated with an electric sensor...,
- etc...

OPERATING PRINCIPLE



Part no.	Designation	Nb
01	Main valve	1
02	Position indicator	1
03/07/08	Ballcock FF G 3/8	3
04	Sieve filter G 3/8	1
05	Orifice	1
06	Solenoid valve: step-by-step version NC	1
09	Bi-directional speed controller	1

The main valve copies the solenoid valve position on the downstream branch, without blocking in intermediate position:
- Solenoid valve open => Main valve open,
- Solenoid valve closed => Main valve closed.

STATUS OF THE BASE VALVE AND CHARACTERISTICS OF THE SOLENOID VALVE

Valve fail-safe position	Downstream solenoid valve	Comments
NCDC	NCDC	Standard product
NODC	NODC	Available on request

NCDC: normally closed, disconnected - NODC: normally open, disconnected

CHARACTERISTICS OF THE SOLENOID VALVE

Connections	Setting range	IP protection	Kv m^3/h	Standard supply	Other supply on demand	Consumption
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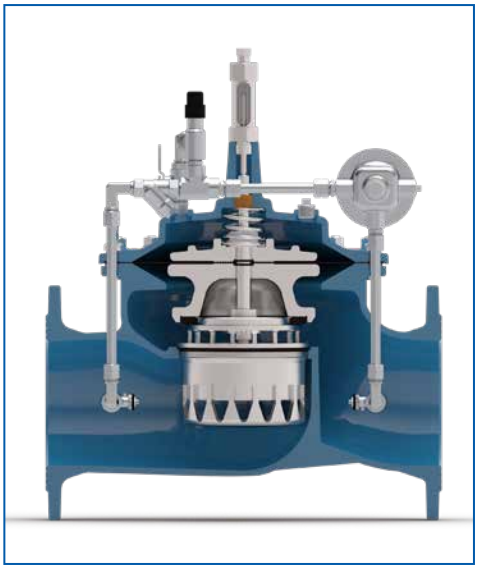
Solenoid valve with manual drive facilitating commissioning trials and valve maintenance.

When ordering it is essential to specify the voltage of the solenoid valve and the desired fail-safe position for the main valve.

ACCESSORIES AND OPTIONS

ANTI-CAVITATION DEVICE ACD 040



When the pressure differential generated by the reduction of the desired pressure entails a risk of cavitation (see table on page 13), the solution is anti-cavitation device ACD 040 (Anti Cavitation Device 0-40 bar).

APPLICATIONS

- Reduction of pressure.
- Reduction of noise.
- Reservoir filling.
- By-pass of an overpressure pump.
- Discharge with emission directly into the atmosphere.

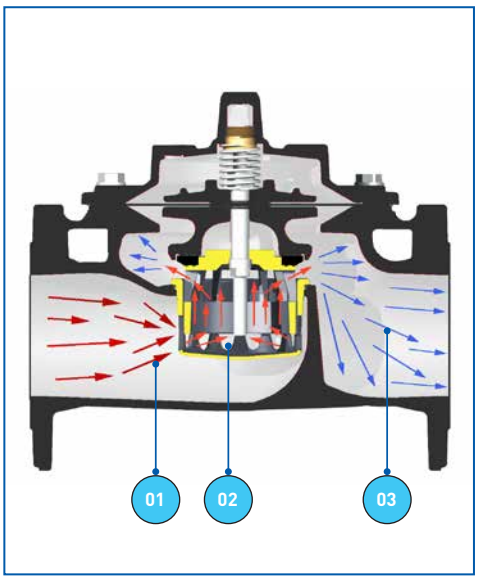
In general, all of the applications where valves are subject to extreme differences of pressure or conditions where the downstream pressure is low or nil.

FUNCTIONS

The effects of cavitation are devastating, particularly when using equipment with little opening possibility or at high speeds. This device makes it possible to extend the range of normal use of a standard hydrobloc valve to particularly harsh operating regimes without the risk of damage.

PRINCIPLE OF THE DEVICE ACD 040

The BAYARD patented ACD 040 device (Anti-Cavitation Device 0 to 40 bar) is an advance in the control of cavitation and high speeds.



Applying the principle of a double slotted cylinder, which has very much proved its worth in our annular valves, the design has been optimised to accept high pressure differences from small openings onwards, while preserving high flow capacity at full fire.

The principle of this device is to dissipate the energy in two successive, balanced phases. Most of the cavitation (60 to 70%) will be dissipated by passing from zone 1 to zone 2, and any cavitation is contained in zone 2. Circulation from zone 2 to zone 3 completes the reduction of pressure and high speeds, and does so regardless of the percentage of opening.

On the basis of these two principles, cascaded dissipation and linearity on the range of opening, device ACD 040 offers remarkable performances.

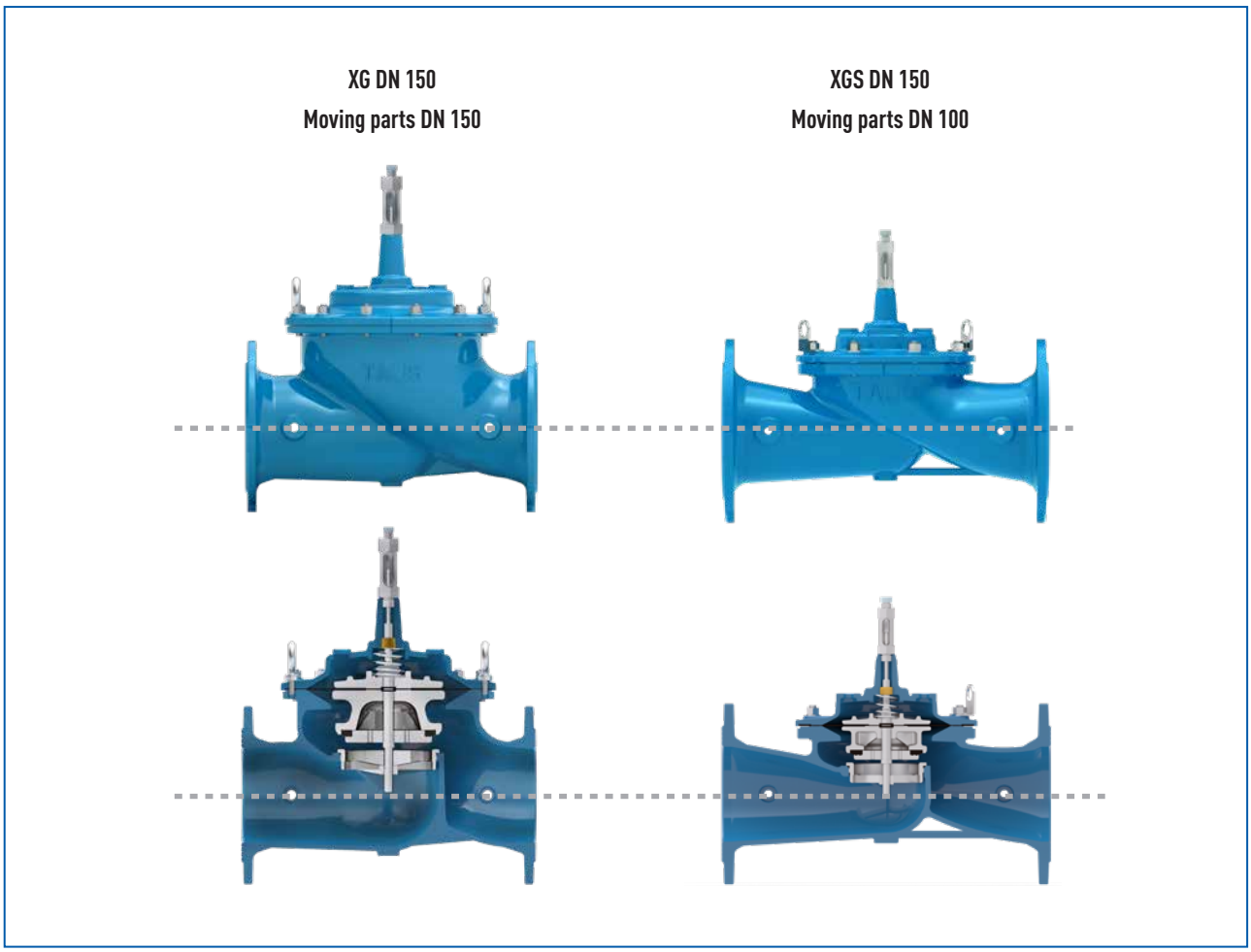
CHOICE OF MODEL AND DIMENSIONING

Each network is unique. In order for a regulation valve to be entirely satisfactory and for its service life to be as long as possible, a number of criteria must be determined:

- The network life scenario, which will determine the operation of the device.
- The network's operating conditions (flow rate, pressure, etc.).
- The model and DN.
- Additional function(s).
- Supplementary options.
- Options specific to the operating conditions.

1- CHOICE OF MAIN VALVE

To ensure the pressure reduction function, a main valve type XGS (reduced throughway) is recommended in network operation cases where the available Δp (i.e., the difference in pressure between the upstream and the downstream of the regulation valve), is greater than or equal to 1 bar.
If the available Δp is continuously 1 bar lower, we advise an XG type main valve (full throughway). This choice tends to be unusual in the case of pressure reduction.
If the flow is low and the available Δp is greater than or equal to 1 bar and becomes lower than 1 bar when the flow rate is high, we recommend you contact BAYARD Customer Technical Service.



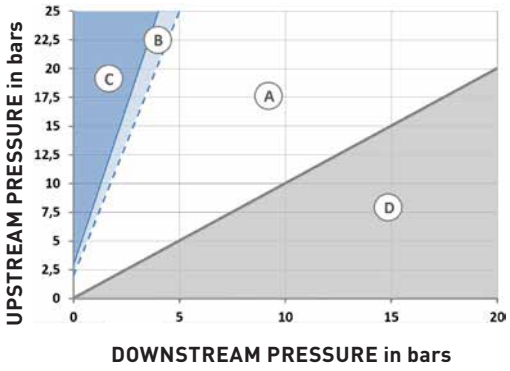
THE ADVANTAGES OF THE XGS VERSION - REDUCED THROUGHWAY - FOR PRESSURE REDUCTION:

- High hydraulic performance: the XGS versions offer high flow-rate coefficients.
- A better range of operation: reduced throughway automatically generates a greater degree of opening of the downstream Hydrostab Premium at low flow-rates. Thus, the stability of the device is optimised and the risk of cavitation reduced.
- Greater precision attributable to the stability of the valve.
  - The Hydrostab Premium XGS
  - Associated with the specific moving parts profile "SPD" (Low Flowrate System).
  - The best performances on the market.

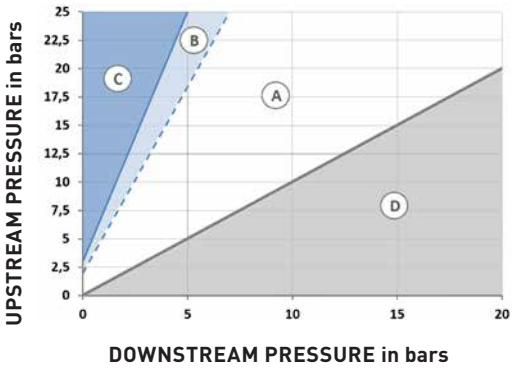
2- CAVITATION:

Depending on the reduction of pressure desired, it is worth making sure that the device will not be in a cavitation zone. To determine whether a risk exists, please refer to the graphics below.

MODEL XGS



MODEL XG



Zone A: Conditions not including cavitation.

Zone B: Harsh area of use. Make sure you have a polyurethane disk kit.

Zone C: Cavitation zone. Make sure you have an anti-cavitation kit ACD040 or cascaded devices.
In the case of downstream pressure below 1 bar, an air inlet device may be considered (consult us).

Zone D: Impossible zone, upstream pressure lower than downstream pressure.

Hydraulic engineer's notes:

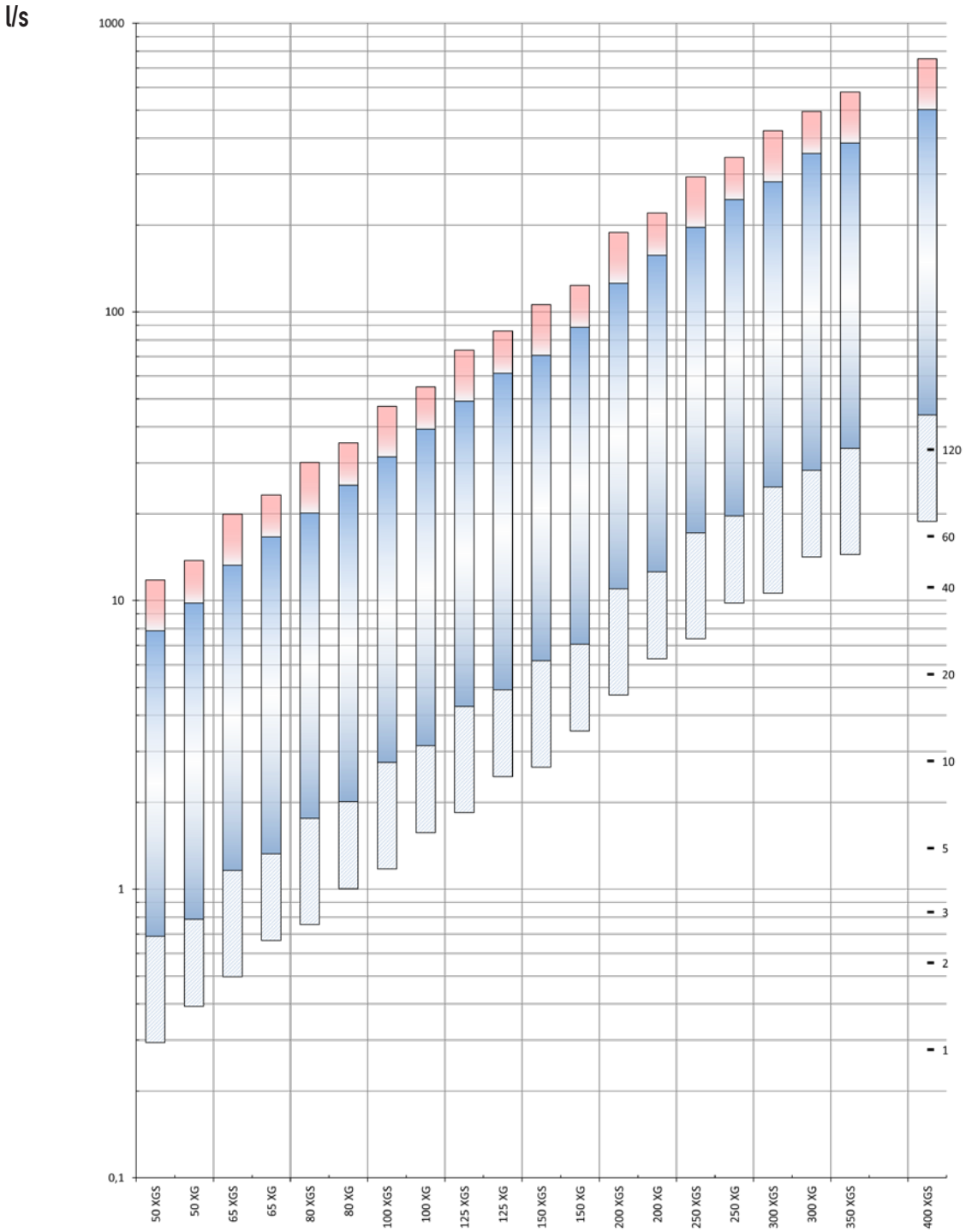
The potential damage created by cavitation in the regulation valve are detrimental to its service life and therefore to the precision of the downstream pressure controlled. The anti-cavitation device addresses this threat. Furthermore, this device only requires the installation of a single device on the network, unlike some manufacturers' recommendations (two devices in series). This avoids higher hardware costs, a larger valve chamber and more complex maintenance.

Request Hydrosize II to help you with the dimensioning of the device!

THE HYDROBLOC SYSTEM ESTABLISHING A PROJECT
OPERATING RANGES

3- FLOW SPEEDS:

The table below summarises the flow coefficients as well as the flow rates under certain speeds. The Hydrobloc Premium series allows an exceptional speed, which can be used for flows related to fire-fighting (red zone).



The Δp available and consumable in the valve must be above 1bar (10WCm).

Optimum operating range
The Δp available and consumable in the valve must be between Δp necessary for operation of the valve and the maximum allowable (see cavitation and speed diagrams).

The Δp available and consumable in the valve must be below 1bar (10WCm).

THE HYDROBLOC SYSTEM ESTABLISHING A PROJECT
OPERATING RANGES

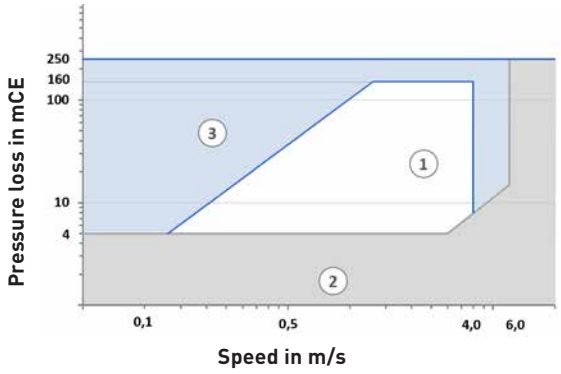
Calculation rule BAYARD

Choice of model and DN with the BAYARD calculation rule:

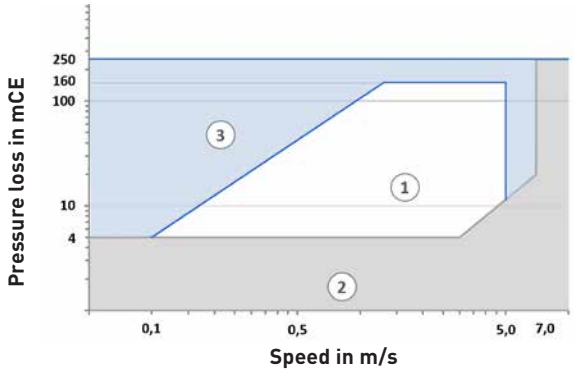
The mode of use together with the BAYARD calculation rule enables you to determine the regulator that is suitable for the installation and its operating conditions.

- The diagrams below can be used to check whether the device will operate in an optimum operation zone, knowing the available Δp and the speed in the inlet section.

XGS Design



XG Design



Zone 1 = Optimum conditions of use.
Zone 2 = The Δp available is too low, please consult us.
Zone 3 = Operation possible but to be avoided in steady state, please consult us.

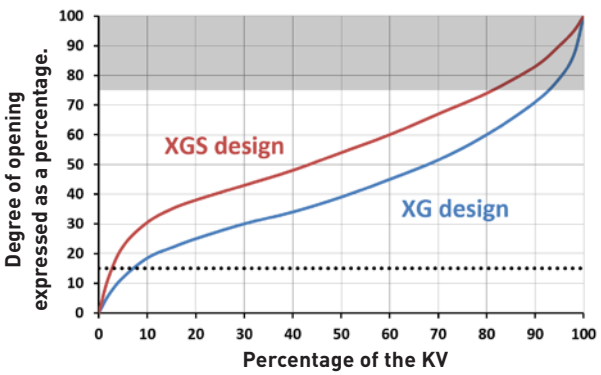
DN	XGS Models		XG Models	
	Kv	K	Kv	K
50	22	20.3	50	3.9
65	52	10.3	73	3.4
80	72	7.9	121	4.0
100	120	8.6	178	5.0
125	189	10.7	259	4.8
150	196	20.6	417	4.6
200	456	12.1	670	5.6
250	670	16.7	1100	4.1
300	1100	7.9	1443	5.9
350	1389	12.2	-	-
400	1441	19.3	-	-

OPERATING CONDITIONS

- The valve is dimensioned on the basis of the cross-section of the throughway at disk level (reduced on the XGS, practically equal to the cross-section of the inlet on the XG), and the flow-speed of the water or flow rate (Q = V x S).
- The Hydrobloc Premium valve is a globe valve; its throughway cross-section is equal to the circumference of the seat multiplied by the height of opening of the disk.
- Between 15 and 75% opening, the operation of the valve is optimal in normal conditions of use.
- Below 15%, the quality of the regulation remains excellent, particularly thanks to the SPD device, but the valve is subject to a harsh operating regime that may induce vibration and nose. The device is probably oversized.
- Above 75% opening, regulation performs less well as the pressure difference becomes very low. The device is slow to react, it is probably undersized. However, this range is usable in "all or nothing" mode, such as in the case of reservoir-filling applications.

Reminders:

- The pressure loss in the Hydrobloc valve is its driving force.
- The XGS model has a reduced throughway cross-section compared with the inlet section.



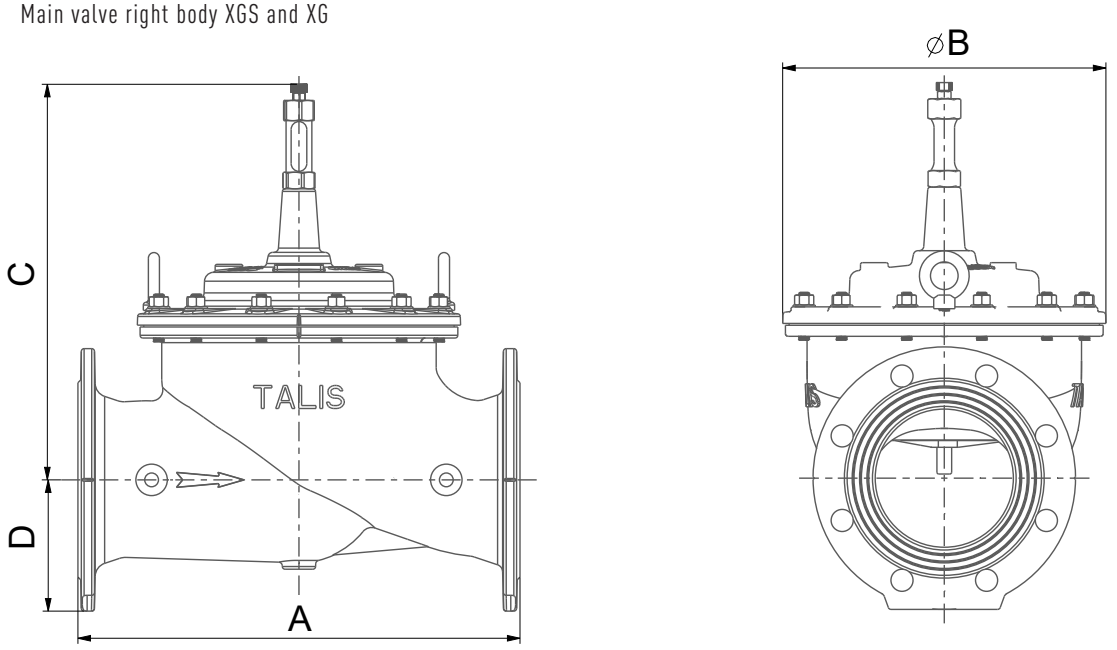
DIMENSIONS

MAIN VALVE TYPE XGS

REDUCED THROUGHWAY

DN	A (mm)	B (mm)	C (mm)	D (mm)	Weight* (kg)
40/50	230	145	195	80	10.2
65	290	173	237	95	15
80	310	198	257	102	21
100	350	226	277	112	27
125	400	265	312	127	34
150	480	265	376	145	37
200	600	351	431	172	68
250	730	436	521	205	125
300	850	524	647	232	200
350	980	606	657	278	248
400	1100	606	714	290	269

Main valve right body XGS and XG



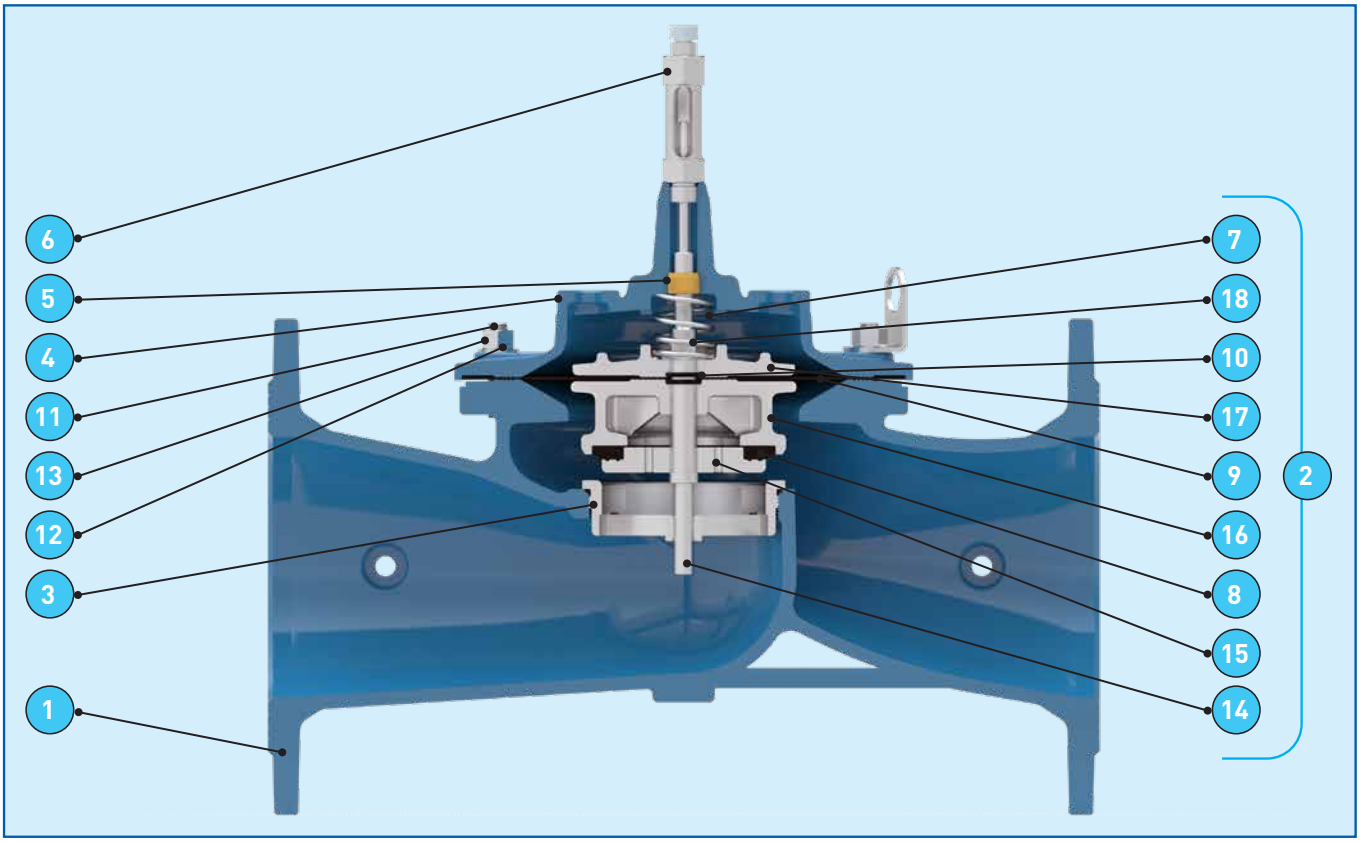
MAIN VALVE TYPE XG

FULL THROUGHWAY

DN	A (mm)	B (mm)	C (mm)	D (mm)	Weight* (kg)
40/50	230	173	237	85	14
65	290	198	257	95	19
80	310	226	277	102	23
100	350	265	312	112	32
125	400	307	376	127	50
150	480	351	431	145	68
200	600	436	521	172	125
250	730	524	647	205	200
300	850	606	697	232	260

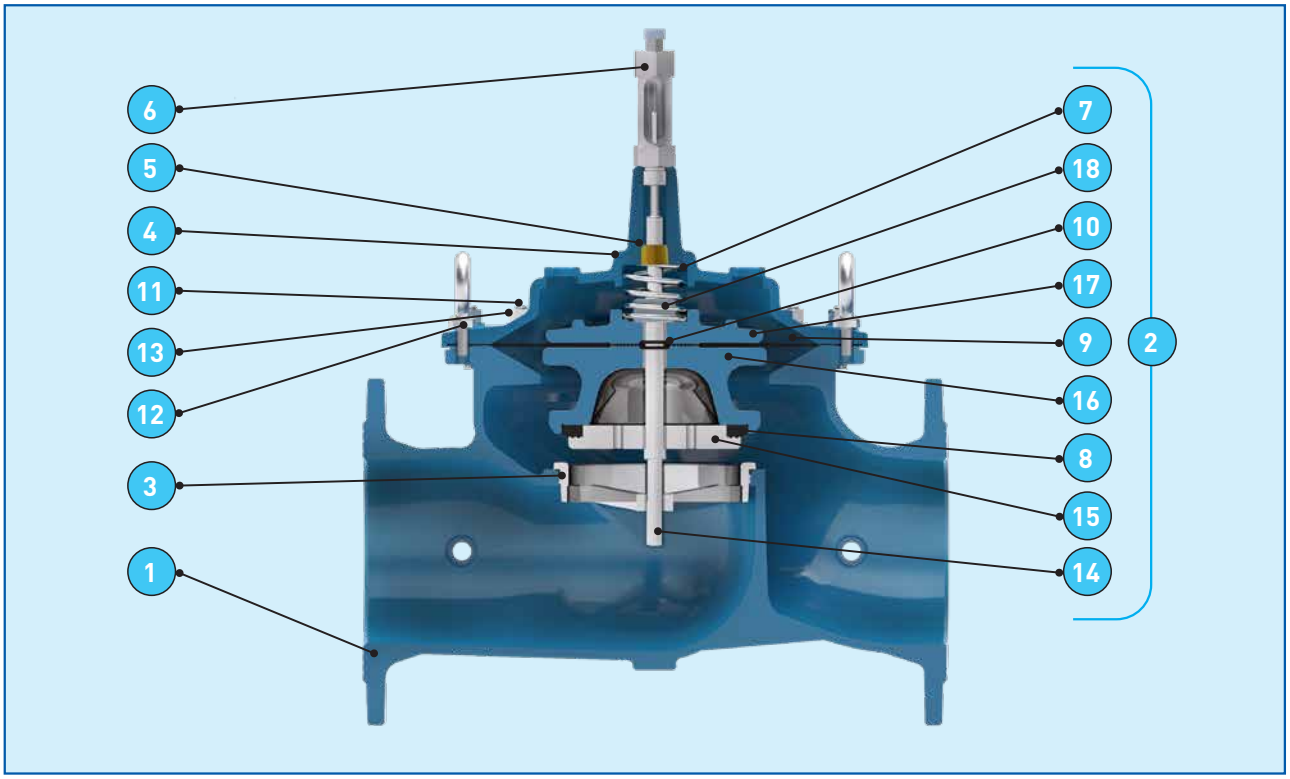
*Weight bare valve

NOMENCLATURE - HYDROBLOC PREMIUM: XGS [DN 50-200 MM] AND XG [DN 50-150 MM]



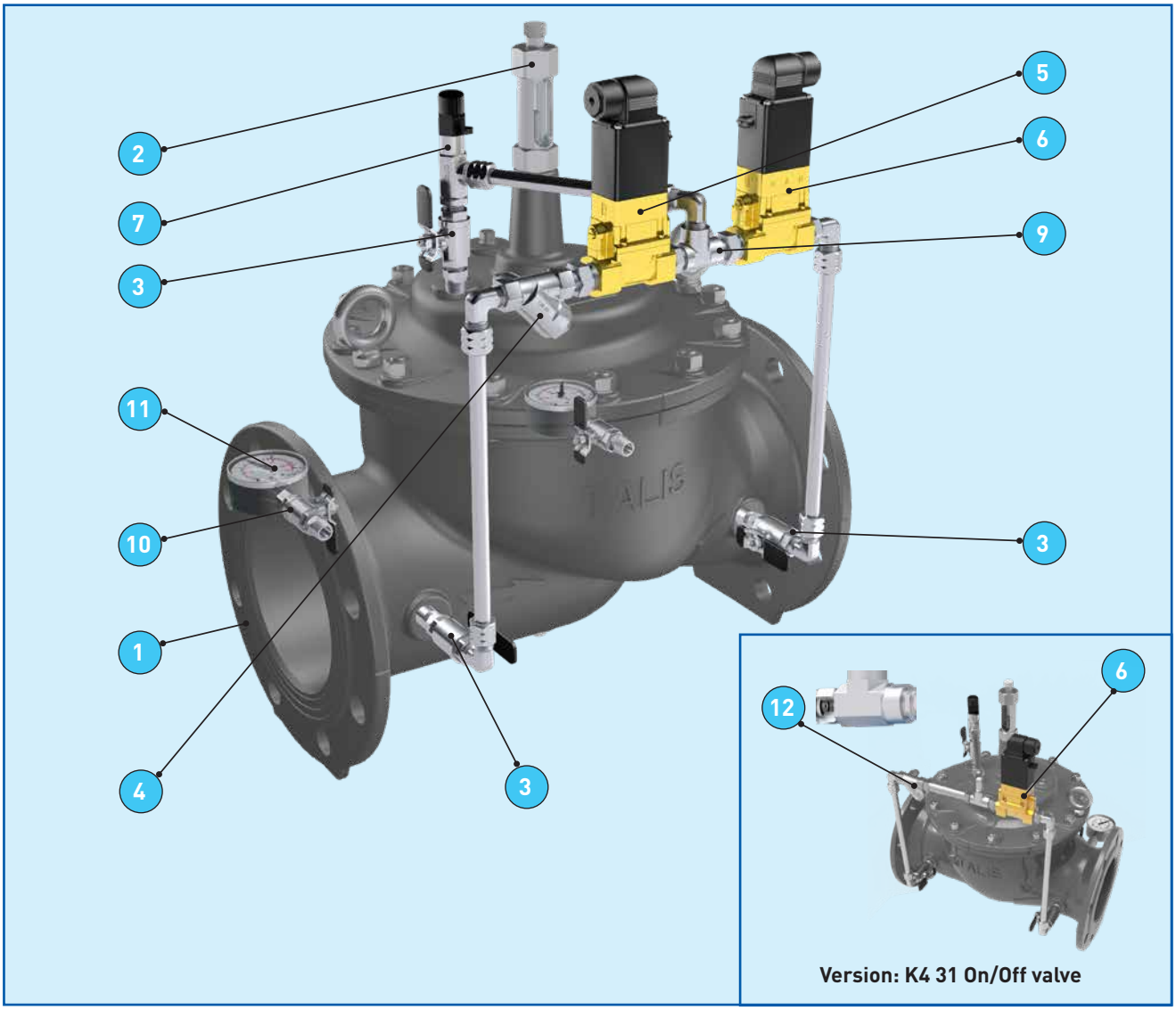
Part no.	Name	Type	Name	Number	Standard
1	BODY	DUCTILE IRON	EN-GJS-500-7	5.3200	EN 1563
2	MOBILE PARTS Nos. 14-15-16-8-17-18				
3	SEAT	STAINLESS-STEEL	GX5CrNiMo19-11-2	1.4408	EN 10213-4
4	BONNET	DUCTILE IRON	EN-GJS-500-7	5.3200	EN 1563
5	GUIDE	BRASS	CuZn21Si3P (CR)	CW724R	EN 12164
6	INDICATOR	STAINLESS STEEL	X5CrNiMo17-12-2 (AISI 316)	1.4401	EN 10088
7	SPRING	STAINLESS STEEL	X5CrNiMo17-12-2	1.4401	EN 10088
8	DISK	ELASTOMER	EPDM		ISO 1629
9	DIAPHRAGM	ELASTOMER	EPDM		ISO 1629
10	O-RINGS	ELASTOMER	EPDM		ISO 1629
11	STUD	STAINLESS STEEL	A2		ISO 3506
12	WASHER	STAINLESS STEEL	A2		ISO 3506
13	NUT	STAINLESS STEEL	A4		ISO 3506
14	SHAFT	STAINLESS STEEL	X5CrNiMo17-12-2 (AISI 316)	1.4401	EN 10088
15	DISK RETAINER	STAINLESS STEEL	GX5CrNiMo19-11-2 (CF8M)	1.4408	EN 10213-4
16	DISK HOLDER	STAINLESS STEEL	GX5CrNiMo19-11-2 (CF8M)	1.4408	EN 10213-4
17	DIAPHRAGM RETAINER	STAINLESS STEEL	GX5CrNiMo19-11-2 (CF8M)	1.4408	EN 10213-4
18	NUT	STAINLESS STEEL	A2		ISO 3506

NOMENCLATURE - HYDROBLOC PREMIUM: XGS[DN 250-400 MM] AND XG [DN 200-300 MM]



Part no.	Name	Type	Name	Number	Standard
1	BODY	DUCTILE IRON	EN-GJS-500-7	5.3200	EN 1563
2	MOBILE PARTS Nos. 14-15-16-8-17-18				
3	SEAT	STAINLESS STEEL	GX5CrNiMo19-11-2	1.4408	EN 10213-4
4	BONNET	DUCTILE IRON	EN-GJS-500-7	5.3200	EN 1563
5	GUIDE	BRASS	CuZn21Si3P (CR)	CW724R	EN 12164
6	INDICATOR	STAINLESS STEEL	X5CrNiMo17-12-2 (AISI 316)	1.4401	EN 10088
7	SPRING	STAINLESS STEEL	X5CrNiMo17-12-2	1.4401	EN 10088
8	DISK	ELASTOMER	EPDM		ISO 1629
9	DIAPHRAGM	ELASTOMER	EPDM		ISO 1629
10	O-RINGS	ELASTOMER	EPDM		ISO 1629
11	STUD	STAINLESS STEEL	A2		ISO 3506
12	WASHER	STAINLESS STEEL	A2		ISO 3506
13	NUT	STAINLESS STEEL	A4		ISO 3506
14	SHAFT	STAINLESS STEEL	X5CrNiMo17-12-2	1.4401	EN 10088
15	DISK RETAINER	STAINLESS STEEL	GX5CrNiMo19-11-2	1.4408	EN 10213-4
16	DISK HOLDER	DUCTILE IRON	EN-GJS-500-7	5.3200	EN 1563
17	DIAPHRAGM RETAINER	DUCTILE IRON	EN-GJS-500-7	5.3200	EN 1563
18	NUT	STAINLESS STEEL	A2		ISO 3506

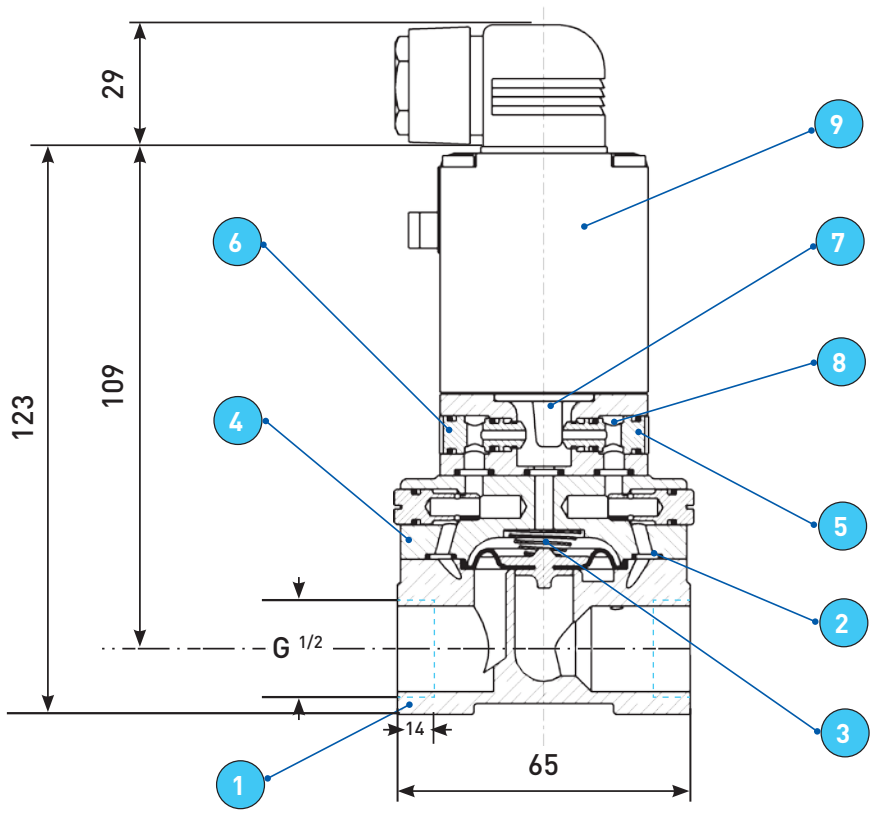
NOMENCLATURE OF THE HYDRELEC PILOT CIRCUIT

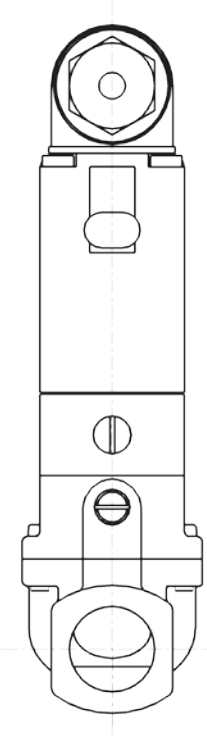


Version: K4 31 On/Off valve

Part no.	Designation	N.B.	Type	Name	Number	Standard
01	MAIN VALVE	1	-	See details on pages 15-16	-	-
02	POSITION INDICATOR	1	STAINLESS STEEL /GLASS	X5CrNiMo17-12-2 (AISI 316)	1.4401	EN 10088
03	BALLCOCK FF G 3/8	3	COPPER / STAINLESS STEEL	-	-	-
04	SIEVE FILTER G 3/8	1	STAINLESS STEEL	GX5CrNiMo19-11-2 (CF8M)	1.4408	EN 10213-4
05	SOLENOID VALVE: STEP-BY-STEP VERSION NO	1	-	See details on page 18	-	-
06	SOLENOID VALVE: STEP-BY-STEP VERSION NC	1	-	See details on page 18	-	-
07	BI-DIRECTIONAL RETARDER		STAINLESS STEEL	-	-	-
08	KIT OF TUBE UNION FITTINGS	1	STAINLESS STEEL	X2CrNiMo17-12-2 (AISI 316)	1.4404	EN 10088
09	CROSS JOINT	1	STAINLESS STEEL	GX5CrNiMo19-11-2 (CF8M)	1.4408	EN 10213-4
10	MANOMETER SHUTTER COCK G ⅜ AND G 1/4	2	COPPER / STAINLESS STEEL	-	-	-
11	MANOMETERS	2	-	-	-	-
12	ONLY FOR SERIES K4 31: ORIFICE IN CROSS JOINT 09	1	STAINLESS STEEL	X2CrNiMo17-12-2 (AISI 316L)	1.4408	EN 10088

NCDC PFA 16G1 / 2 ELECTRONIC NOMENCLATURE



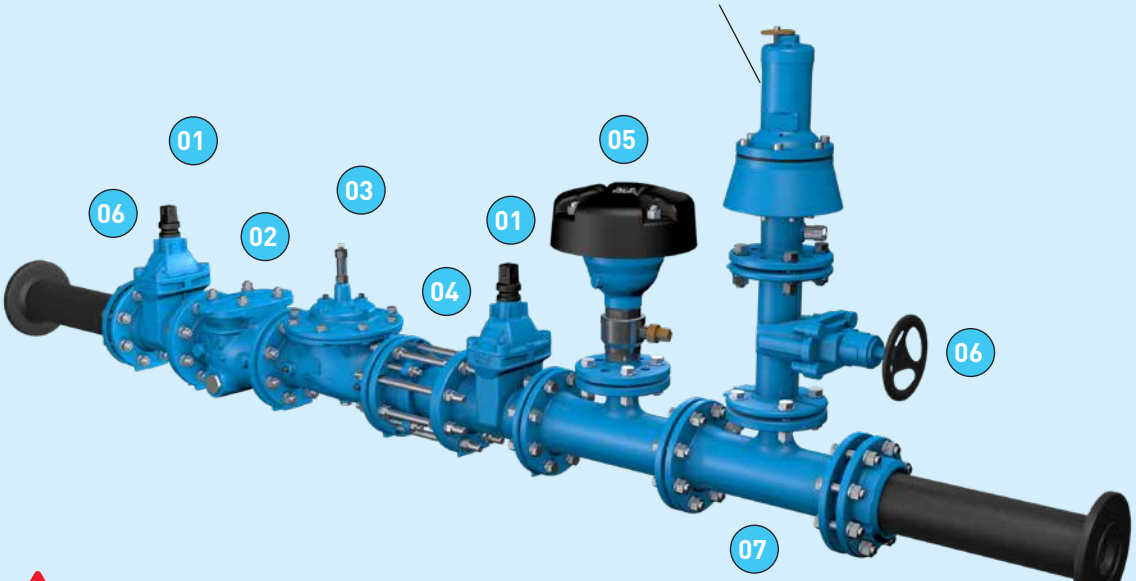


Part no.	Name	N.B.	Materials	Standards
1	BODY	1	Copper alloy/CuZn39Pb3+CuZn40Pb2	NF EN 12164
2	COMPLETE DIAPHRAGM	1	Copper alloy + elastomer/CuZn39Pb2 + EPDM NF EN 12164	-
3	SPRING	1	Stainless steel 302 / X10CrNi18-08	NF EN 10088
4	COVER	1	Copper alloy / CuZn39Pb3	NF EN 12164
5	SCREWS	2	Copper alloy / CuZn39Pb3	NF EN 12164
6	PILOT BODY	1	Copper alloy / CuZn40Pb2zh	NF EN 12164
7	CLACK VALVE	1	Elastomer lining / EPDM lining	X10CrNi18-8 (AISI 302)
8	SEAT	2	Copper alloy / CuZn39Pb3	NF EN 12164
9	MAGNETIC SYSTEM	1	-	-
	SEALING RINGS	s/DN	EPDM	-

Drawing and parts list for Burkert G1/2 PFA 16 solenoid valve, normally closed and disconnected. Please consult us in relation to other models. Guarantee applies only to the complete product which has not been modified or dismantled.

INSTALLATION RECOMMENDATIONS:

Safety valve: this will protect the downstream network in the event the stabiliser fails due to lack of monitoring and maintenance. Its gradual leakage will alert the network manager to an anomaly before there are financial consequences due to damage caused by excessive pressure.



The overall dimensions of the pilot circuit, depending on the DN, may be greater than those of the valve.

PFA 16 bar

B1 20 ou 25 — 01

PFA 25 bar

B1 92 — 01

C1 30 - C1 35 — 06

C1 45 — 06

F3 10 — 02

03

F1 20 — 05

C4 20 — 07

C1 55 — 04

C4 30 — 04

C4 60

F1 30

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