GLOBAL FLOW CONTROL COMBINATION

Water Control Valve Solution

GEKO
CONTROL-VALVES

INDEX

Water Control Valve Figure Number System

Type	Style	Material	Standard	Pressure
PR—Pressure Reducing Valve RS—Pressure Relief Valve FM—Float Valves NC—Non-Slam Check Valves SL—Solenoid Control Valves PF—Pump Control Valves DR—Differential Pressure Relief MF—Muliti-Funtion Valves	51—Y Type 57—Light Type	D—Ductile Iron S—Stainles Steel W—Carbon Steel	1—ANSI B16.1/B16.5 2—ISO 7005 3—BSEN 1092 4—DIN 2501 5—JIS B2212/B2213	0—Class 125/ 150 1—Class 250/ 300 2—PN10 (150PSI) 3—PN16 (235PSI) 4—PN25 (350PSI)

＊Germany GEKO design and manufacture of valves in the recommended application areas provide the ideal and the right solution with the lowest initial acquisition and maintenance costs, which meets and exceeds the standard that have rich experience, years of research and laboratory test.

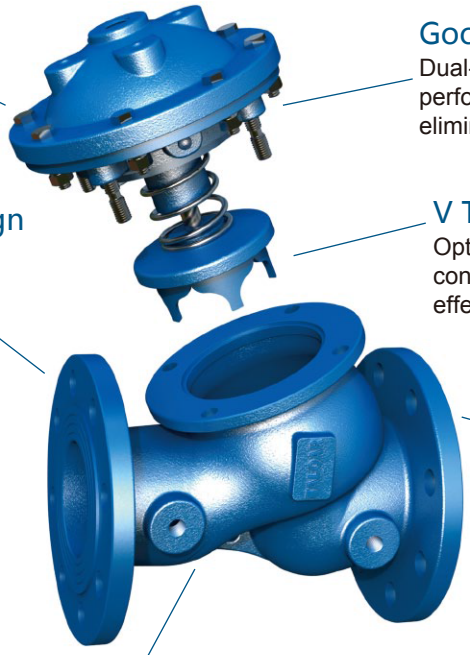
Basic Valves GKV51 Series

Easy Maintaince

The individual chamber assembly can be removed from the valve body without removing the entire valve.

25% "Half Straight" Design

"Y"type body design for good flow performance.



Good Control Performance

Dual-chamber, diaphragm-type control has good control performance, which can make the action of the valve gentle, eliminate the impact, avoid the damage of the water hammer.

V Type Closure Plug

Optional V-shaped closure plug is more suitable for the condition of low flow, high pressure differenital, which can effectively reduce the vibration.

Big Flow

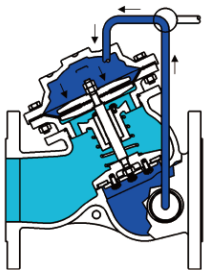
Low flow resistance, Cv value is more than ball valves.

Shell Coating

Epoxy internal and external coating for better protection of shell.

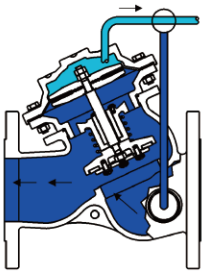
Close

When the pressure of valve goes into the air chamber, the main valve will automatically shut down.



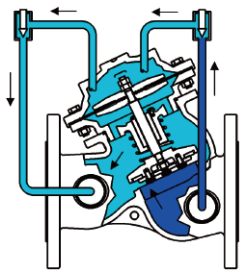
Open

Once the air in the chamber has drained, the pressure in the chamber can not be stored and the main valve would opens automatically to let the aie pass.



Control

If you install the appropriate control device, the valve will automatically act according to the pressure in the pipeline to ensure that the valve input / output pressure and flow.



Product Feature

- Realiable seal performance
- Without removing the valve body from the pipeline maintenance
- Combinate into a number of functional control valve according to different pilot valve device.
- Adjust sensitivity, reliable performance
- Low resistance, large flow
- A variety of standard interfaces are available
- Block difficultly

Y-type base valve is the basis of all water control valves, which can be used with different control devices to adapt with different applications, such as pressure reducing valve, pressure relief / back pressure valve, solenoid valve, float valve, non-slam check valve, and pump control valve. Valves are available in a wide range of sizes and interfaces and are widely used in municipal water supply, building water supply, air conditioning, fire protection, industrial water, power and irrigation facilities.

Material Specification

Body/Bonnet: Ductile iron/ Stainless steel
Internal Parts : Stainless steel/ Bronze

Connection

DN50mm thread, DN50mm~DN500mm flange

Connection Standard

ANSI B16.1 / B16.5
EN1092-2 (BS 4504) / ISO 7005-2 / DIN 2501

Working Pressure Range

175PSI, 235PSI, 350PSI
10Bar, 16Bar, 25Bar

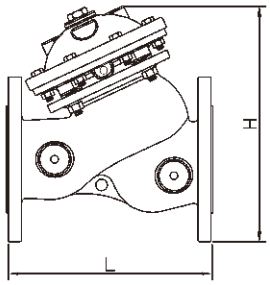
Temperature/Medium

0℃~100 ℃ Room temperature water, to be marked before ordering if applied in other special occasions.

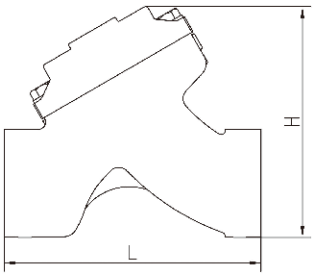
» Dimensions/Weight

Size (mm)		50T	50	65	80	100	125	150	200	250	300	350	400	500
L (mm)		184	205	229	250	320	370	415	500	605	725	733	990	1100
H (mm)		160	238	249	305	380	410	500	580	720	820	843	1095	1320
Weight (kg)		6	11	13	22	37	46	75	125	217	370	380	846	1040
Recommended maximum flow (m^3/h)	continous	47	55	68	104	182	324	409	704	1112	1589	1930	2497	3880
	peak	59	72	84	132	225	400	511	885	1396	1979	2347	3110	4800

* If you choose stainless steel body material, "L" size DN100mm length of 326mm, DN150mm length of 424mm, the rest of the same size.
* For more than DN550mm size, please contact the factory.



DN50mm~DN500mm
Flange

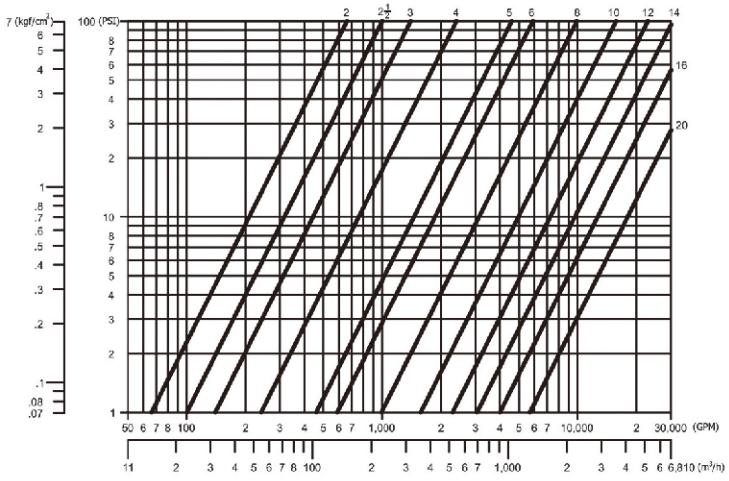


DN50mm
Thread

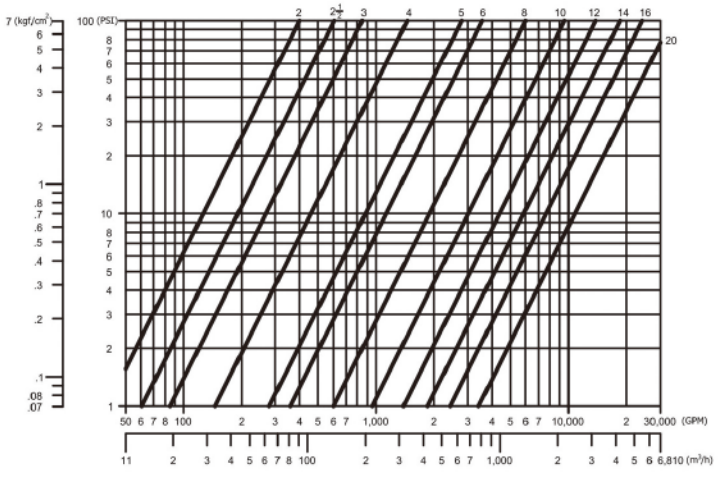
» Flow Data

SIZE mm/In	Cv	Kv	SIZE mm/In	Cv	Kv
DN50 (2")	66	57	DN200 (8")	990	856
DN65 (21/2")	100	86	DN250 (10")	1575	1362
DN80 (3")	140	121	DN300 (12")	2290	1980
DN100 (4")	240	205	DN350 (14")	3060	2646
DN125 (5")	460	397	DN400 (16")	4000	3460
DN150 (6")	590	510	DN500 (20")	5700	4930

Cv or Kv=Q/√ΔP. For one special valve, where Kv=Cv*0.8649, 1kgf/〖cm〗^2=14.22PSI



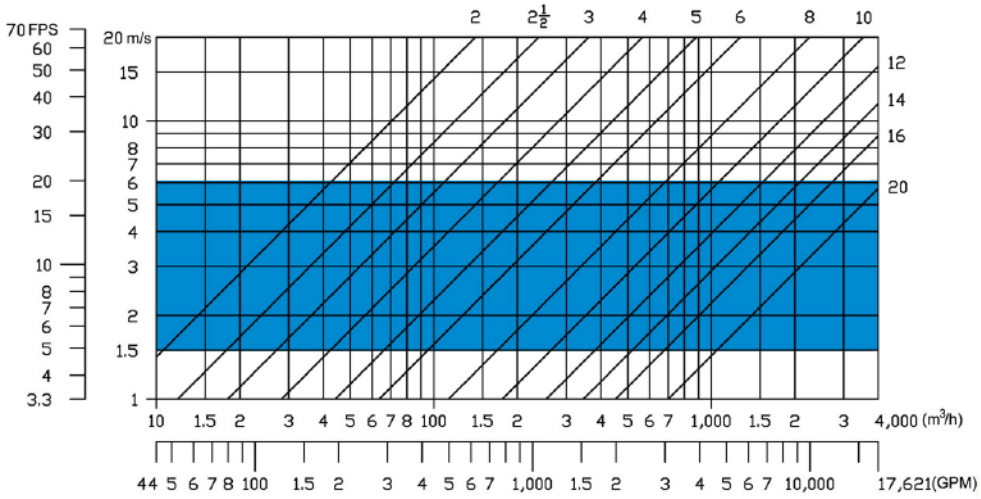
Pressure Differential With V Type Closure Plug



Pressure Differential Withot V Type Closure Plug

» Valve Selection Step

1. Determine flow: For example, the request flow of your system is 800GPM (182m3/h)
2. Determine pressure differential: Calculate pressure differential between inlet and outlet. For example, the pressure should turn down 4PSI (0.28kgf/cm2)
3. Calculate Cv or Kv: $Cv=\frac{Q}{\sqrt{\Delta P}}=\frac{800}{\sqrt{4}}=400$ or $Kv=\frac{Q}{\sqrt{\Delta P}}=\frac{182}{\sqrt{0.28}}=344$
4. Determine diameter: We search the valve that its Cv or Kv is bigger than the calculated value. The valve we selected is about 1.4 times than the calculated value. We can determine the Cv value of DN150mm is 590 from the sheet.
5. Calculate the speed of flow: Calculate the speed of flow through diameter.
6. Determine valve: The requirement of flow speed is determined by application. The speed would be faster in the relief occasion generally, so we should select the smaller diameter. You should choose the DN125mm at this example. If you choose the control valve, we suggest the speed should be in the shadow of sheet.



Pressure loss curve

» Hole corrosion solution

About hole corrosion

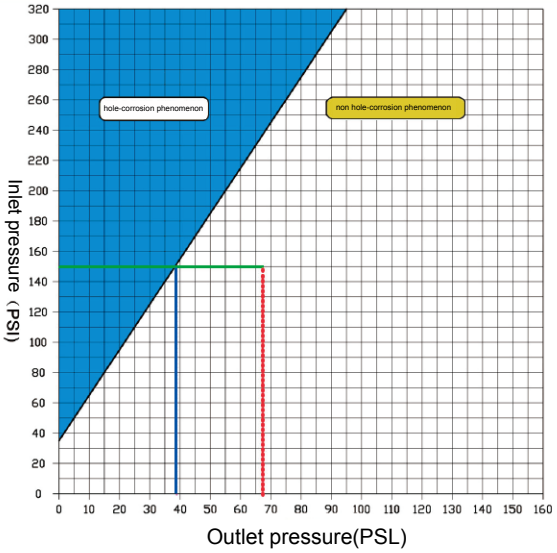
1. When you use the control valve for relief valve, it would lead to hole corrosion due to the too big pressure differential of inlet and outlet.
2. When fluid go through the bonnet with high speed, the pressure would fall. When the pressure down to saturation pressure of fluid, the fluid would come into vaporization and become bubble. When the bubble go through the valve with high speed, it would break out the internal parts, which is no less than sediment.

Prevent hole corrosion

1. Add downstream pressure if possible.
2. Reduce the speed of fluid for bigger diameter valve.
3. Parallel valves for reducing flow and pressure.
4. Install relief valve in series for reducing pressure differential.

Method of application

1. Determine upstream pressure.
2. Search the corresponding value in inlet pressure, and draw one horizontal line until over shadow area. Determine the point between line and shadow.
3. Determine the outlet pressure, 37PSI (2.6kgf/cm2) as showed in the picture.
4. Determine the outlet pressure should equal or more than this value, 65PSI (4.6kgf/cm2) as showed in the pictur



Pressure Reducing Valves GKV51PR

Product Feature

- Sensitive and precise pressure control
- Easy to adjust and maintain
- Excellent, reliable sealing performance
- Built-in filter device to prevent the catheter system plug

GKV51PR

GKV51PR pressure reducing valve can automatically reduce the high pressure of inlet to a stable low-pressure of outlet, which regardless of the flow rate or inlet pressure changes. Through a precise pressure regulator to keep the outlet pressure within a pre-set range, when the outlet pressure exceeds the setting pressure of relief valve, the valve body and the regulator will automatically close the formation of for a tight seal. If the optional check feature is selected, when the reverse pressure is generated, the return liquid enters the chamber causing the valve to close and prevent the return of the liquid.

Material Specification

Body / Bonnet: Ductile Iron / Stainless Steel
Stem: stainless steel
Piping: copper / stainless steel / rubber hose
Diaphragm: NBR nitrile rubber
Fasteners and springs: stainless steel

Working Pressure Range

175PSI / 235PSI / 350PSI
10Bar / 16Bar / 25Bar

Flange Standard

ANSI / BSEN / ISO / DIN

Temperature/ Medium

0℃~100℃ normal temperature water

Pilot Regulator Parameter

Regulation parameter: 0.1~5kgf/cm2 , 5~9kgf/cm2 , 7~17 kgf/cm2

Material: Bronze/Stainless steel

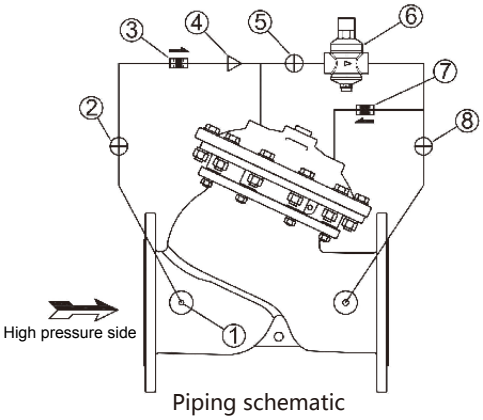
Please provide the following information when ordering

Valve type / valve size / pressure rating
Interface type / voltage range / other optional accessories

* Note: When installing the valve, it is strongly recommended to reserve enough space for maintenance. Please make sure the filter is installed at the front of the valve so as not to block the foreign matter to affect the valve action.

Accessories

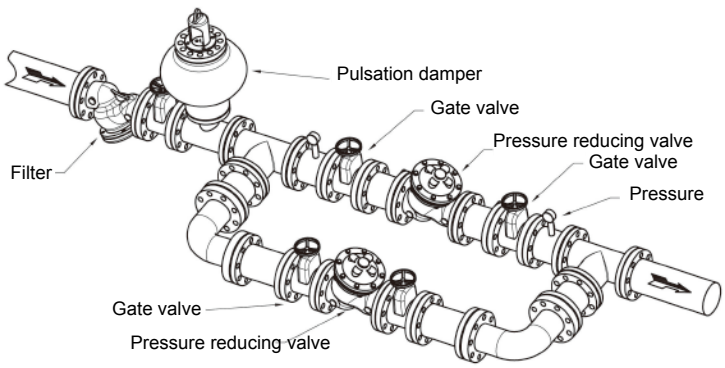
① Filter
② Ball valve
③ Check valve
④ Needle control valve
⑤ Ball valve
⑥ Regulator
⑦ Check valve
⑧ Ball valve



Piping schematic

Application

If the flow demand range is large, the GKV51PR pressure reducing valve should be used in parallel. When the flow demand is larger, the two pressure reducing valves work at the same time. When the flow demand is small, the large size valve would close automatically, while the small size valve continues to provide the required flow. Setting the valve pressure range should make the small size of the valve pressure set value is higher than the large-size valve about 0.3kgf/cm2. If the decompression range is larger, it should be used in series with multiple GKV51PR valve pressure relief.



Pressure Pelief Valve GKV51RS

Product Feature

- Sensitive and precise pressure control
- Optional check feature
- Quickly open valve for maintaincing pressure in pipeline
- Slow-close design to prevent fluid shock
- Excellent, reliable sealing performance
- Built-in filter device to prevent the catheter system plug

GKV51RS

The GKV51RS pressure relief valve maintains the pressure in the upstream. It is a diaphragm-type control valve that is hydraulically controlled and controlled by a regulator. The valve can be used for pressure relief, holding pressure, back pressure impact and other occasions. The valve control the valve switch through the pressure sensor that react to inlet pressure. When the input pressure exceeds the set value, the valve quickly opens to maintain the pressure in the pipeline. After the pressure is released, the valve slowly closes to prevent the water hammer from hitting. If the optional check feature is selected, when the reverse pressure is generated, the return liquid enters the chamber causing the valve to close and prevent the return of the liquid.

Material Specification

Body / Bonnet: Ductile Iron / Stainless Steel
Stem: stainless steel
Piping: copper / stainless steel / rubber hose
Diaphragm: NBR nitrile rubber
Fasteners and springs: stainless steel

Working Pressure Range

175PSI / 235PSI / 350PSI
10Bar / 16Bar / 25Bar

Flange Standard

ANSI / BSEN / ISO / DIN

Temperature/ Medium

0℃~100℃ normal temperature water

Pilot Regulator Parameter

Regulation parameter: 0.1~5kgf/cm2 , 5~9kgf/cm2 , 7~17 kgf/cm2
Material: Bronze/Stainless steel

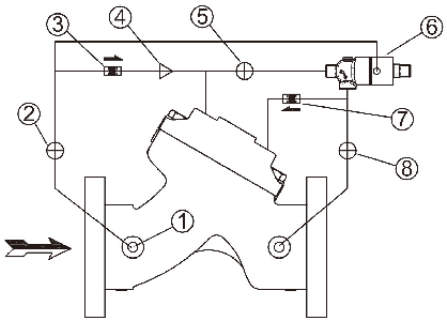
Please provide the following information when ordering

Valve type / valve size / pressure rating
Interface type / voltage range / other optional accessories

* Note: When installing the valve, it is strongly recommended to reserve enough space for maintenance. Please make sure the filter is installed at the front of the valve so as not to block the foreign matter to affect the valve action.

Accessories

① Filter
② Ball valve
③ Check valve
④ Needle control valve
⑤ Ball valve
⑥ Regulator
⑦ Check valve
⑧ Ball valve

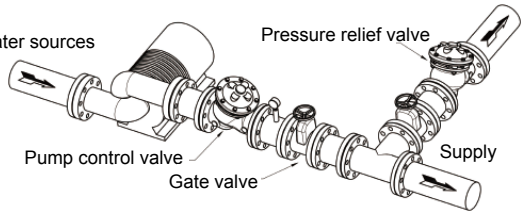


Piping schematic

Application

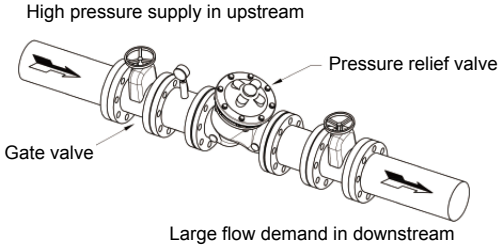
- **Relief valve**

In order to prevent high-pressure shock generated when the pumps shut down, you can use the quick opening and slow closing relief / holding pressure / back pressure valve to relieve excess pressure to protect the system.



- **Holding pressure valve**

When the valve is installed between the high pressure supply and the high flow demand, it can be used as a holding pressure valve to maintain the upstream pressure so that the pressure in the main pipe will be reduced and the pressure in the main pipe will be maintained.



Float Valve GKV51FM

Product Feature

- Sensitive and precise water control
- Ideal slow open and slow close function
- Reliable full-hydraulic control
- Greater flow
- Excellent, reliable sealing performance
- Built-in filter device to prevent the catheter system plug

GKV51FM diaphragm float control valve maintain the water tank in a relatively stable water level through the hydraulic drive. Float control switch is installed in the high water tank and connected with the main valve through the pipeline, when the water level rises over the maximum level, the float valve is completely closed, and the valve is also automatically closed. When the water level drops to the minimum water level, the float valve is fully open, the valve is also automatically open for replenishment until the tank water level is in the stable ideal range. If the optional check feature is selected, when the reverse pressure is generated, the return liquid enters the chamber causing the valve to close and prevent the return of the liquid.

GKV51FM

Material Specification

Body / Bonnet: Ductile Iron / Stainless Steel
Stem: stainless steel
Piping: copper / stainless steel / rubber hose
Diaphragm: NBR nitrile rubber
Fasteners and springs: stainless steel

Working Pressure Range

175PSI / 235PSI / 350PSI
10Bar / 16Bar / 25Bar

Flange Standard

ANSI / BSEN / ISO / DIN

Temperature/ Medium

0℃~100℃ normal temperature water

Pilot Regulator Parameter

Controller: 1/2" Float Valves
Material: Bronze/Stainless steel

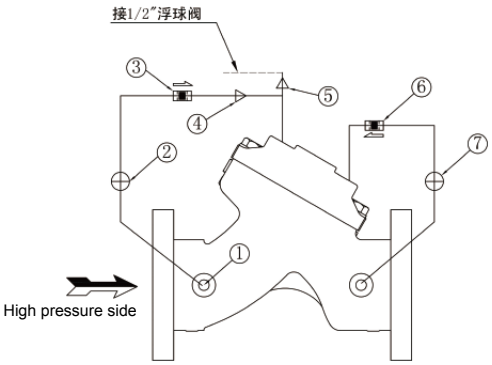
Please provide the following information when ordering

Valve type / valve size / pressure rating
Interface type / voltage range / other optional accessories

* Note: When installing the valve, it is strongly recommended to reserve enough space for maintenance. Please make sure the filter is installed at the front of the valve so as not to block the foreign matter to affect the valve action.

Accessories

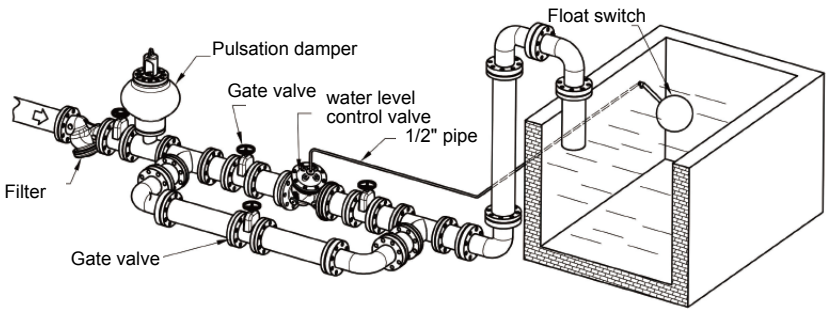
① Filter
② Ball valve
③ Check valve
④ Needle control valve
⑤ Needle control valve
⑥ Check valve
⑦ Ball valve



Piping schematic

Application

Install the valve and float control switch as shown in the diagram, the float control switch should be mounted on a relatively static water surface and on the output of the connecting pipe located at the water level which you want to obtain. The outlet should be far away from the float controller, which is proposed with 5 meters or more, so as to avoid the water caused by fluctuations in the surface, the valve frequent switching, noise and short life.



Non-Slam Check Valves GKV51NC

Product Feature

- Action smooth without shock
- Easy to adjust and maintain
- Excellent, reliable sealing performance
- Controlled opening speed and closing speed
- Built-in filter device to prevent the catheter system plug

GKV51NC non-slam check valves is a diaphragm-type control valve that can adjust the speed of open and the close through the hydraulic, when the inlet pressure rises above the valve opening pressure, the valve slowly opened to avoid the impact. When the reverse pressure is generated, the liquid will enter the valve chamber, the valve slowly closed to form a tight seal. The opening and closing speed can be adjusted by the opening degree of the needle valve. The valve is particularly suitable for that required with absolute sealing, and the rubber seal insures that the valve is not leaking. In addition, the valve is also a simple design to ensure the reliability of the valve.

GKV51NC

Material Specification

Body / Bonnet: Ductile Iron / Stainless Steel
Stem: stainless steel
Piping: copper / stainless steel / rubber hose
Diaphragm: NBR nitrile rubber
Fasteners and springs: stainless steel

Working Pressure Range

175PSI / 235PSI / 350PSI
10Bar / 16Bar / 25Bar

Flange Standard

ANSI / BSEN / ISO / DIN

Temperature/ Medium

0℃~100℃ normal temperature water

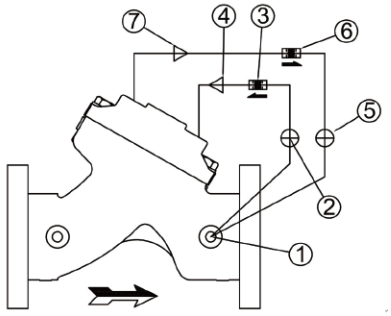
Please provide the following information when ordering

Valve type / valve size / pressure rating
Interface type / voltage range / other optional accessories

* Note: When installing the valve, it is strongly recommended to reserve enough space for maintenance. Please make sure the filter is installed at the front of the valve so as not to block the foreign matter to affect the valve action.

Accessories

① Filter
② Ball valve
③ Check valve
④ Needle control valve
⑤ Ball valve
⑥ Check valve
⑦ Needle control valve

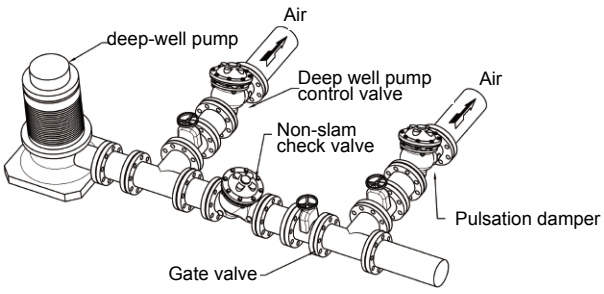


Piping schematic

Application

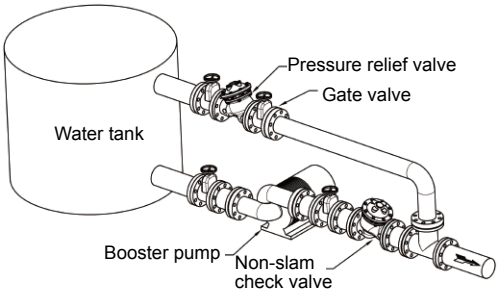
Deep-well pump

Designed to use the occasion of the deep-well pump should be installed non-slam check valve, when pump or power suddenly stop, the valve slowly closed to avoid the phenomenon of rapid flow of water to produce destructive water hammer.



Booster pump

Installing GKV51NC non-slam check valve in the booster pump outlet can prevent the fluid into the tank when the pump stops. The pressure relief valve shown in the figure can effectively prevent the pump from the impact of the closure.



Solenoid Control Valves GKV51SL

Product Feature

- Sensitive, rapid action
- Easy to adjust and maintain
- Excellent, reliable sealing performance
- Built-in filter device to prevent the catheter system plug
- Optional check feature

GKV51SL solenoid control valve is mainly controlled through the solenoid valve for opening or closing the valve. The valve consists of a basic valve and a solenoid switch, which controls the liquid in the gas chamber by the solenoid switch so as to achieve the purpose of controlling the valve switch. Standard opening speed control valve and closing speed control valve can independently control the valve opening and closing speed, which avoid the common water hammer and vibration phenomenon. If the optional check feature is selected, when the reverse pressure is generated, the return liquid enters the chamber causing the valve to close and prevent the return of the liquid.

GKV51SL

Material Specification

Body / Bonnet: Ductile Iron / Stainless Steel
Stem: stainless steel
Piping: copper / stainless steel / rubber hose
Diaphragm: NBR nitrile rubber
Fasteners and springs: stainless steel

Working Pressure Range

175PSI / 235PSI / 350PSI
10Bar / 16Bar / 25Bar

Flange Standard

ANSI / BSEN / ISO / DIN

Temperature/ Medium

0℃~100℃ normal temperature water

Pilot Regulator Parameter

Voltage range: 110V, 50 ~ 60Hz, AC or 220V, 50 ~ 60Hz, AC
Use type: Normally closed or normally open type, please specify when ordering
Body material: copper / stainless steel
Material: Bronze/Stainless steel

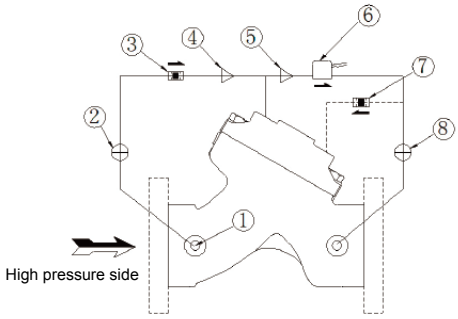
Please provide the following information when ordering

Valve type / valve size / pressure rating
Interface type / voltage range / other optional accessories

* Note: When installing the valve, it is strongly recommended to reserve enough space for maintenance. Please make sure the filter is installed at the front of the valve so as not to block the foreign matter to affect the valve action.

Accessories

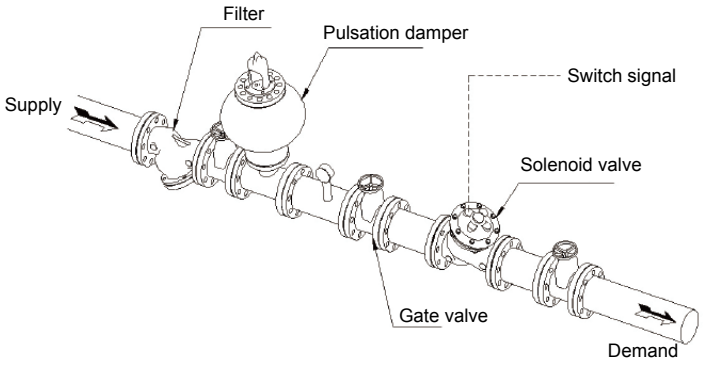
① Filter
② Ball valve
③ Check valve
④ Needle control valve
⑤ Needle control valve
⑥ Solenoid valve
⑦ Check valve
⑧ Ball valve



Piping schematic

Application

Industry use GKV51SL solenoid control valve has a broad range of occasion, such as mixing, cleaning, stirring, etc. which need to switch control.
The switching signal can be controlled with a direct control signal or a sensor-generated signal. Solenoid control valve can be used to control the water level, through the sensor installed in the water tank on the switch signal to control the solenoid valve switch, so as to achieve the purpose of controlling the water level.

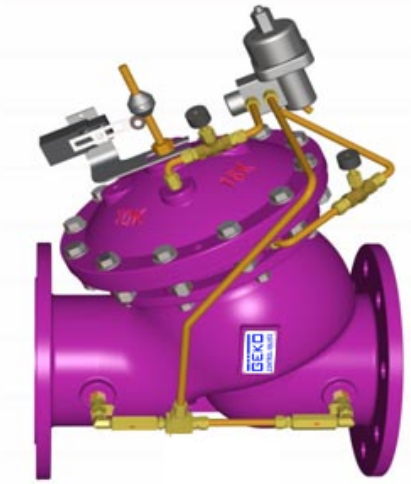


Pump Control Valve GKV51PF

Product Feature

- Opening and closing speed can be adjusted individually
- Solenoid control switch can be operated manually
- Excellent, reliable sealing performance
- Easy to adjust and maintain
- Built-in filter device to prevent the catheter system plug

Pump control valve is installed in the pump outlet, which controlled by the guide pipe for eliminating the impact of pump at the start or power outage. When the water pump starts, the control valve is in the closed state. After the start, the solenoid control valve is energized, the valve opens slowly, and the pressure in the pipeline rises slowly until the working head of the pump is reached. When the pump receives the stop signal, solenoid control valve cuts off, the valve began to slow down, the flow of the pipeline is gradually reduced, but this time the pump is still working. When the valve is completely closed, the limit switch installed on the valve and the pump form an electronic interlocking relationship, and it cancel the start command of pump, the pump stops running.



GKV51PF

Material Specification

Body / Bonnet: Ductile Iron / Stainless Steel
Stem: stainless steel
Piping: copper / stainless steel / rubber hose
Diaphragm: NBR nitrile rubber
Fasteners and springs: stainless steel

Working Pressure Range

175PSI / 235PSI / 350PSI
10Bar / 16Bar / 25Bar

Flange Standard

ANSI / BSEN / ISO / DIN

Temperature/ Medium

0℃~100℃ normal temperature water

Pilot Regulator Parameter

Voltage range: 110V, 50 ~ 60Hz, AC or 220V, 50 ~ 60Hz, AC
Body material: copper / stainless steel

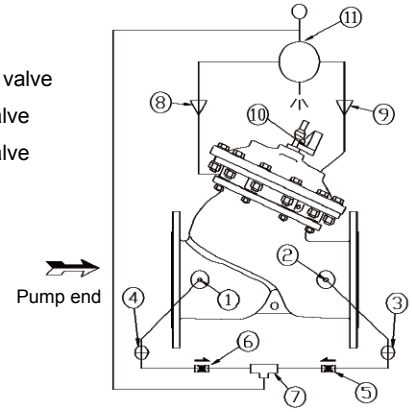
Please provide the following information when ordering

Valve type / valve size / pressure rating
Interface type / voltage range / other optional accessories

* Note: When installing the valve, it is strongly recommended to reserve enough space for maintenance. Please make sure the filter is installed at the front of the valve so as not to block the foreign matter to affect the valve action.

Accessories

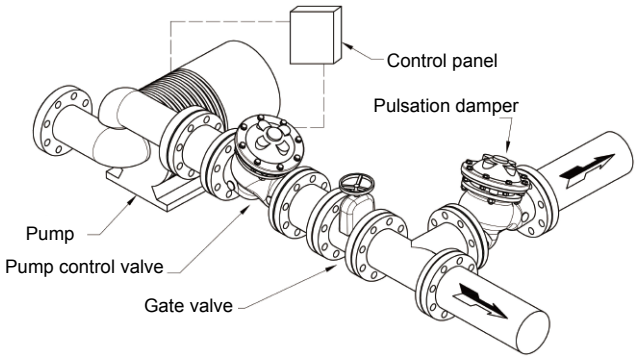
① Filter
② Filter
③ Ball valve
④ Ball valve
⑤ Check valve
⑥ Check valve
⑦ Three-way guide valve
⑧ Needle control valve
⑨ Needle control valve
⑩ Limit switch
● Solenoid



Piping schematic

Application

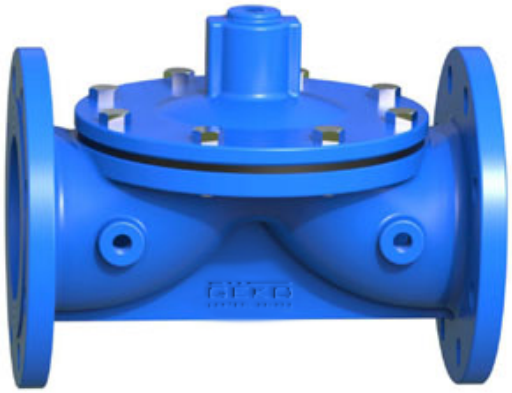
GKV51PF pump control valve installation as shown in the picture, the control of solenoid control switch and limit switch must be packaged with flexible conduit.



Basic Valves GKV57 Series

Product Feature

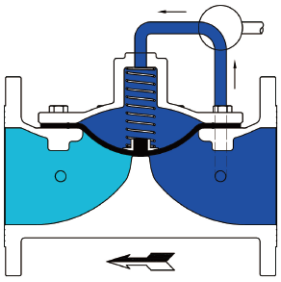
- Simple structure for easy maintenance and repair
- Strong flow capacity, little loss
- Excellent, reliable sealing performance
- Equipped with a variety of guide valve, composed of various functions of the hydraulic control valve
- The valve body and the diaphragm have various optional materials, which is suitable for each kind of medium environment.



GEKO light basic valve design's structure is hydraulic diaphragm type direct seal type. It can be used for various purposes such as pressure reducing valve, float valve, pressure relief valve, pressure differential valve, non-slam check valve, solenoid control valve and so on, which are widely used in municipal Water supply, building water supply, air conditioning, firefighting, industrial water, electricity and irrigation facilities. The light hydraulic control valve's structure is simple, where the only activities of the valve body parts is diaphragm. The repair or maintenance of repairmen do not need to remove the entire valve from the pipeline, only remove the bonnet, the internal structure of the valve can be glanced.

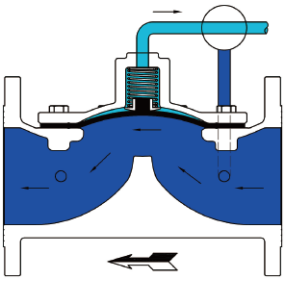
Close

When the pressure of valve goes into the air chamber, the main valve will automatically shut down.



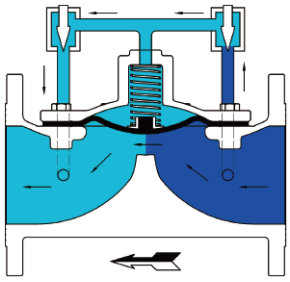
Open

Once the air in the chamber has drained, the pressure in the chamber can not be stored and the main valve would opens automatically to let the aie pass.



Control

If you install the appropriate control device, the valve will automatically act according to the pressure in the pipeline to ensure that the valve input / output pressure and flow.



Material Specification

Body/Bonnet: Ductile iron/ Stainless steel
Internal Parts : Stainless steel/ Bronze

Connection

DN50mm thread,DN50mm~DN500mm flange

Connection Standard

ANSI B16.1 / B16.5　EN1092-2 (BS 4504) / ISO 7005-2 / DIN 2501

Working Pressure Range

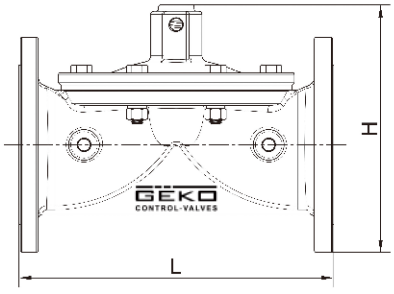
175PSI, 235PSI, 350PSI　10Bar, 16Bar, 25Bar

Temperature/Medium

0℃~100℃ Room temperature water, to be marked before ordering if applied in other special occasions.

Dimensions

Size(mm)	50	65	80	100	125	150	200	250	300
L (mm)	200	220	285	307	370	390	500	605	650
H (mm)	195	200	220	242	280	315	400	460	500
Weight (kg)	8.5	9	16	18	37	48	83	105	135

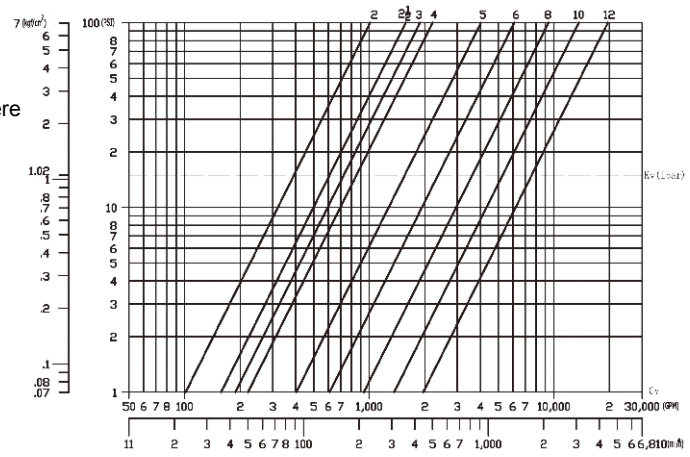


* For more than DN350mm size, please contact the factory.

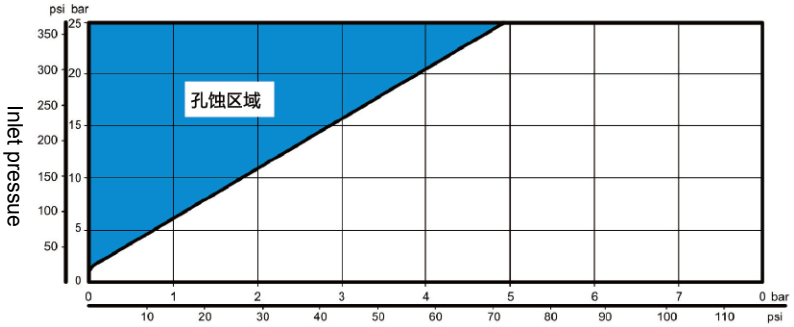
» Flow Data

Sizemm/In	Cv	Kv
DN50(2")	100.6	87
DN65(21/2")	157.2	136
DN80(3")	185.0	160
DN100(4")	213.9	185
DN125(5")	398.9	345
DN150(6")	605.9	524
DN200(8")	919.2	795
DN250(10")	1479.9	1280
DN300(12")	2104.3	1820

Cv or Kv=Q/√ΔP. For one special valve, where Kv=Cv*0.8649, 1kgf/〖cm〗^2=14.22PSI

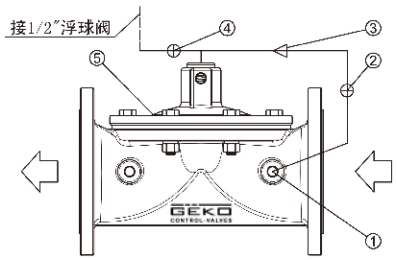


Producing area of hole corrosion phenomenon



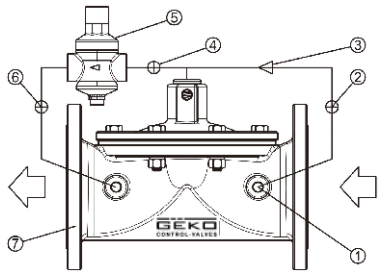
» Hydraulic control valve piping diagram

① Filter ② Ball valve ③ Neddle valve/Ball valve
④ Ball valve ⑤ Basic valve



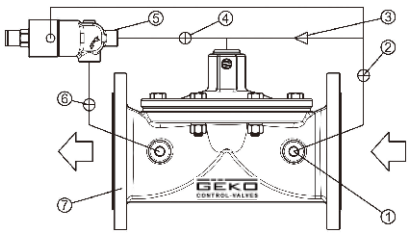
Float valve

① Filter ② Ball valve ③ 针阀/Ball valve
④ Ball valve ⑤ Pressure reducing guide valve
⑥ Ball valve ⑦ Basic valve



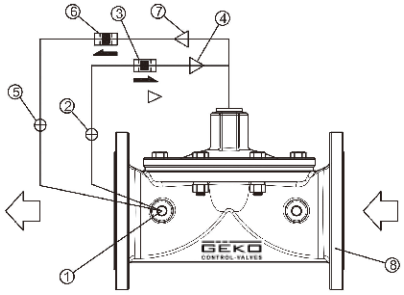
Pressure Reducing Valves

① Filter ② Ball valve ③ Neddle valve/Ball valve
④ Ball valve ⑤ Pressure relief guide valve
⑥ Ball valve ⑦ Basic valve



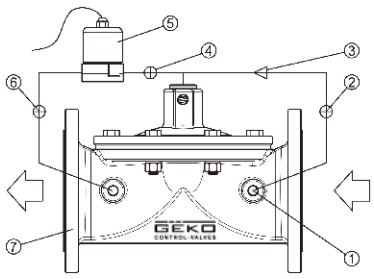
Pressure Relief Valves

① Filter ② Ball valve ③ Check valve
④ 针阀/Ball valve ⑤ Ball valve
⑥ 止回阀 ⑦ Neddle valve ⑧ Basic valve



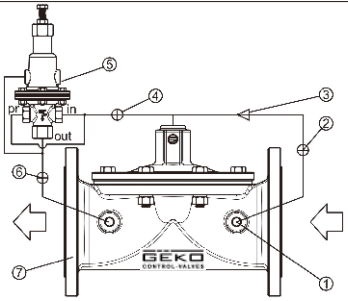
Non-slam check valve

① Filter ② Ball valve ③ Neddle valve/ Ball valve
④ Ball valve ⑤ Solenoid
⑥ Ball valve ⑦ Basic valve



Solenoid valve

① Filter ② Ball valve ③ Neddle valve/Ball valve
④ Ball valve ⑤ Pressure Ddfferential guide valve
⑥ Ball valve ⑦ Basic valve



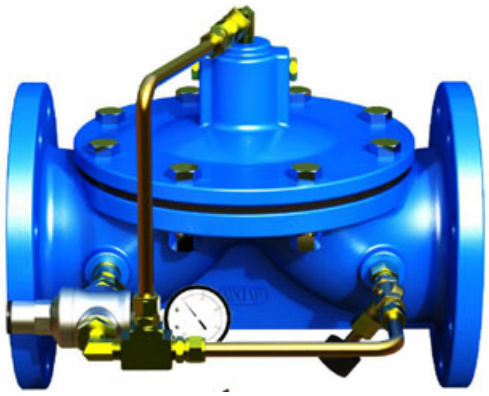
Pressure Differential Relief

Pressure Reducing Valves GKV57PR

Product Feature

- Sensitive and precise pressure control
- Easy to adjust and maintain
- Excellent, reliable sealing performance
- Built-in filter device to prevent the catheter system plug

GKV57PR pressure reducing valve can automatically reduce the high pressure of inlet to a stable low-pressure of outlet, which regardless of the flow rate or inlet pressure changes. Through a precise pressure regulator to keep the outlet pressure within a pre-set range, when the outlet pressure exceeds the setting pressure of relief valve, the valve body and the regulator will automatically close the formation of for a tight seal. If the optional check feature is selected, when the reverse pressure is generated, the return liquid enters the chamber causing the valve to close and prevent the return of the liquid.



GKV57PR

Material Specification

Body / Bonnet: Ductile Iron / Stainless Steel
Stem: stainless steel
Piping: copper / stainless steel / rubber hose
Diaphragm: NBR nitrile rubber
Fasteners and springs: stainless steel

Working Pressure Range

175PSI / 235PSI / 350PSI
10Bar / 16Bar / 25Bar

Flange Standard

ANSI / BSEN / ISO / DIN

Temperature/ Medium

0℃~100℃ normal temperature water

Pilot Regulator Parameter

Regulation parameter: 0.1~5kgf/cm2 , 5~9kgf/cm2 , 7~17 kgf/cm2

Material: Bronze/Stainless steel

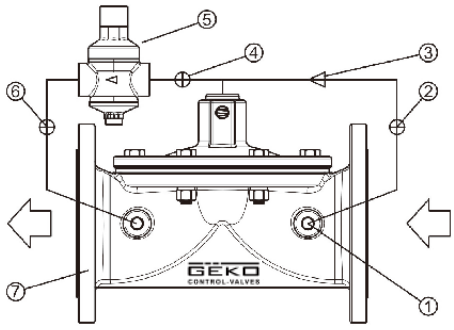
Please provide the following information when ordering

Valve type / valve size / pressure rating
Interface type / voltage range / other optional accessories

* Note: When installing the valve, it is strongly recommended to reserve enough space for maintenance. Please make sure the filter is installed at the front of the valve so as not to block the foreign matter to affect the valve action.

Accessories

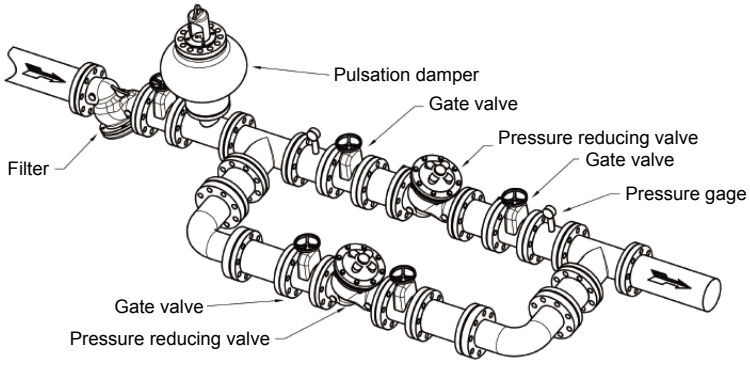
① Filter
② Ball valve
③ Check valve
④ Needle control valve
⑤ Ball valve
⑥ Regulator
⑦ Check valve
⑧ Ball valve



Piping schematic

Application

If the flow demand range is large, the GKV51PR pressure reducing valve should be used in parallel. When the flow demand is larger, the two pressure reducing valves work at the same time. When the flow demand is small, the large size valve would close automatically, while the small size valve continues to provide the required flow. Setting the valve pressure range should make the small size of the valve pressure set value is higher than the large-size valve about 0.3kgf/cm2. If the decompression range is larger, it should be used in series with multiple GKV51PR valve pressure relief.

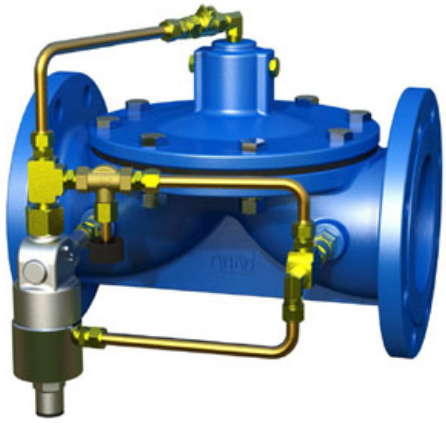


Pressure Pelief Valve GKV57RS

Product Feature

- Sensitive and precise pressure control
- Optional check feature
- Quickly open valve for maintaincing pressure in pipeline
- Slow-close design to prevent fluid shock
- Excellent, reliable sealing performance
- Built-in filter device to prevent the catheter system plug

The GKV57RS pressure relief valve maintains the pressure in the upstream. It is a diaphragm-type control valve that is hydraulically controlled and controlled by a regulator. The valve can be used for pressure relief, holding pressure, back pressure impact and other occasions. The valve control the valve switch through the pressure sensor that react to inlet pressure. When the input pressure exceeds the set value, the valve quickly opens to maintain the pressure in the pipeline. After the pressure is released, the valve slowly closes to prevent the water hammer from hitting. If the optional check feature is selected, when the reverse pressure is generated, the return liquid enters the chamber causing the valve to close and prevent the return of the liquid.



GKV57RS

Material Specification

Body / Bonnet: Ductile Iron / Stainless Steel
Stem: stainless steel
Piping: copper / stainless steel / rubber hose
Diaphragm: NBR nitrile rubber
Fasteners and springs: stainless steel

Working Pressure Range

175PSI / 235PSI / 350PSI
10Bar / 16Bar / 25Bar

Flange Standard

ANSI / BSEN / ISO / DIN

Temperature/ Medium

0℃~100℃ normal temperature water

Pilot Regulator Parameter

Regulation parameter: 0.1~5kgf/cm2 , 5~9kgf/cm2 , 7~17 kgf/cm2
Material: Bronze/Stainless steel

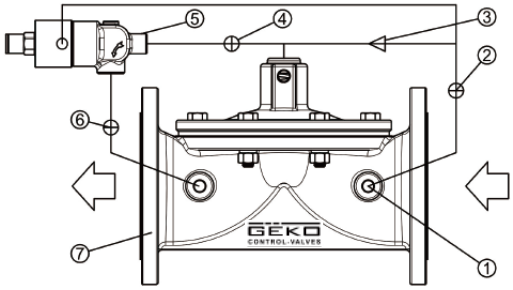
Please provide the following information when ordering

Valve type / valve size / pressure rating
Interface type / voltage range / other optional accessories

* Note: When installing the valve, it is strongly recommended to reserve enough space for maintenance. Please make sure the filter is installed at the front of the valve so as not to block the foreign matter to affect the valve action.

Accessories

① Filter
② Ball valve
③ Needle control valve
④ Ball valve
⑤ Relief valve
⑥ Ball valve
⑦ Body

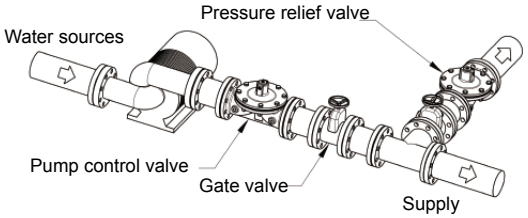


Piping schematic

Application

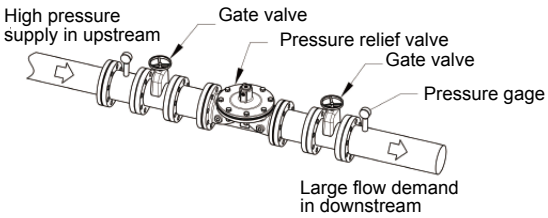
Relief valve

In order to prevent high-pressure shock generated when the pumps shut down, you can use the quick opening and slow closing relief / holding pressure / back pressure valve to relieve excess pressure to protect the system.



Holding pressure valve

When the valve is installed between the high pressure supply and the high flow demand, it can be used as a holding pressure valve to maintain the upstream pressure so that the pressure in the main pipe will be reduced and the pressure in the main pipe will be maintained.



Float Valve GKV57FM

Product Feature

- Sensitive and precise water control
- Ideal slow open and slow close function
- Reliable full-hydraulic control
- Greater flow
- Excellent, reliable sealing performance
- Built-in filter device to prevent the catheter system plug

GKV57FM

GKV57FM diaphragm float control valve maintain the water tank in a relatively stable water level through the hydraulic drive. Float control switch is installed in the high water tank and connected with the main valve through the pipeline, when the water level rises over the maximum level, the float valve is completely closed, and the valve is also automatically closed. When the water level drops to the minimum water level, the float valve is fully open, the valve is also automatically open for replenishment until the tank water level is in the stable ideal range. If the optional check feature is selected, when the reverse pressure is generated, the return liquid enters the chamber causing the valve to close and prevent the return of the liquid.

Material Specification

Body / Bonnet: Ductile Iron / Stainless Steel
Stem: stainless steel
Piping: copper / stainless steel / rubber hose
Diaphragm: NBR nitrile rubber
Fasteners and springs: stainless steel

Working Pressure Range

175PSI / 235PSI / 350PSI
10Bar / 16Bar / 25Bar

Flange Standard

ANSI / BSEN / ISO / DIN

Temperature/ Medium

0℃~100℃ normal temperature water

Pilot Regulator Parameter

Controller: 1/2” Float Valves
Material: Bronze/Stainless steel

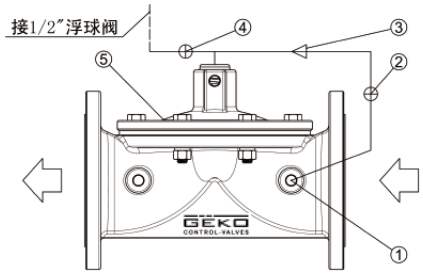
Please provide the following information when ordering

Valve type / valve size / pressure rating
Interface type / voltage range / other optional accessories

* Note: When installing the valve, it is strongly recommended to reserve enough space for maintenance. Please make sure the filter is installed at the front of the valve so as not to block the foreign matter to affect the valve action.

Accessories

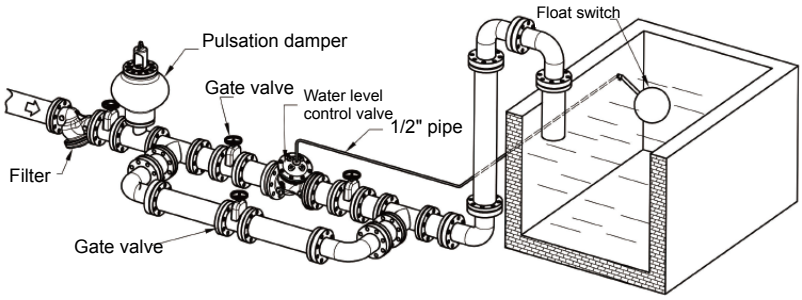
① Filter
② Ball valve
③ Needle control valve
④ Ball valve
⑤ Body



Piping schematic

Application

Install the valve and float control switch as shown in the diagram, the float control switch should be mounted on a relatively static water surface and on the output of the connecting pipe located at the water level which you want to obtain. The outlet should be far away from the float controller, which is proposed with 5 meters or more, so as to avoid the water caused by fluctuations in the surface, the valve frequent switching, noise and short life.

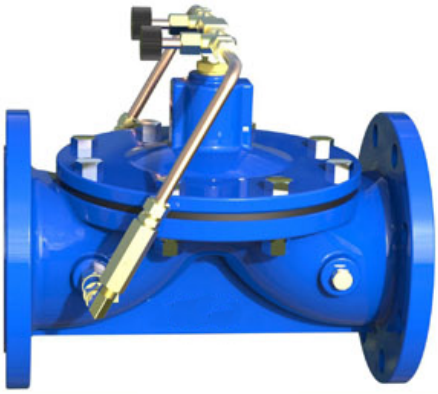


Non-Slam Check Valves GKV57NC

Product Feature

- Action smooth without shock
- Easy to adjust and maintain
- Excellent, reliable sealing performance
- Controlled opening speed and closing speed
- Built-in filter device to prevent the catheter system plug

GKV57NC non-slam check valves is a diaphragm-type control valve that can adjust the speed of open and the close through the hydraulic, when the inlet pressure rises above the valve opening pressure, the valve slowly opened to avoid the impact. When the reverse pressure is generated, the liquid will enter the valve chamber, the valve slowly closed to form a tight seal. The opening and closing speed can be adjusted by the opening degree of the needle valve. The valve is particularly suitable for that required with absolute sealing, and the rubber seal insures that the valve is not leaking. In addition, the valve is also a simple design to ensure the reliability of the valve.



GKV57NC

Material Specification

Body / Bonnet: Ductile Iron / Stainless Steel
Stem: stainless steel
Piping: copper / stainless steel / rubber hose
Diaphragm: NBR nitrile rubber
Fasteners and springs: stainless steel

Working Pressure Range

175PSI / 235PSI / 350PSI
10Bar / 16Bar / 25Bar

Flange Standard

ANSI / BSEN / ISO / DIN

Temperature/ Medium

0℃~100℃ normal temperature water

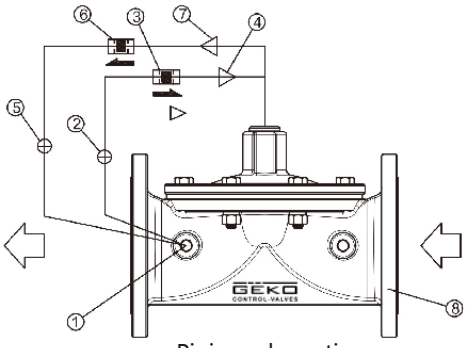
Please provide the following information when ordering

Valve type / valve size / pressure rating
Interface type / voltage range / other optional accessories

* Note: When installing the valve, it is strongly recommended to reserve enough space for maintenance. Please make sure the filter is installed at the front of the valve so as not to block the foreign matter to affect the valve action.

Accessories

① Filter
② Ball valve
③ Check valve
④ Needle control valve
⑤ Ball valve
⑥ Check valve
⑦ Needle control valve

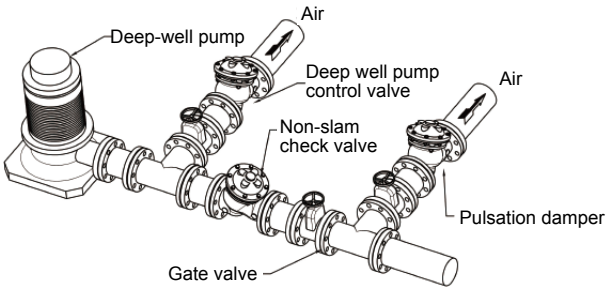


Piping schematic

Application

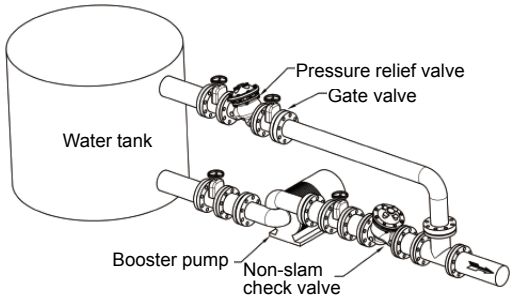
Deep-well pump

Designed to use the occasion of the deep-well pump should be installed non-slam check valve, when pump or power suddenly stop, the valve slowly closed to avoid the phenomenon of rapid flow of water to produce destructive water hammer.



Booster pump

Installing GKV51NC non-slam check valve in the booster pump outlet can prevent the fluid into the tank when the pump stops. The pressure relief valve shown in the figure can effectively prevent the pump from the impact of the closure.



Solenoid Control Valves GKV57SL

Product Feature

- Sensitive, rapid action
- Easy to adjust and maintain
- Excellent, reliable sealing performance
- Built-in filter device to prevent the catheter system plug
- Optional check feature

GKV57SL solenoid control valve is mainly controlled through the solenoid valve for opening or closing the valve. The valve consists of a basic valve and a solenoid switch, which controls the liquid in the gas chamber by the solenoid switch so as to achieve the purpose of controlling the valve switch. Standard opening speed control valve and closing speed control valve can independently control the valve opening and closing speed, which avoid the common water hammer and vibration phenomenon. If the optional check feature is selected, when the reverse pressure is generated, the return liquid enters the chamber causing the valve to close and prevent the return of the liquid.

GKV57SL

Material Specification

Body / Bonnet: Ductile Iron / Stainless Steel
Stem: stainless steel
Piping: copper / stainless steel / rubber hose
Diaphragm: NBR nitrile rubber
Fasteners and springs: stainless steel

Working Pressure Range

175PSI / 235PSI / 350PSI
10Bar / 16Bar / 25Bar

Flange Standard

ANSI / BSEN / ISO / DIN

Temperature/ Medium

0℃~100℃ normal temperature water

Pilot Regulator Parameter

Voltage range: 110V, 50 ~ 60Hz, AC or 220V, 50 ~ 60Hz, AC
Use type: Normally closed or normally open type, please specify when ordering
Body material: copper / stainless steel
Material: Bronze/Stainless steel

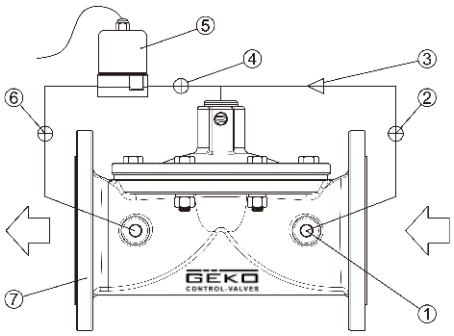
Please provide the following information when ordering

Valve type / valve size / pressure rating
Interface type / voltage range / other optional accessories

* Note: When installing the valve, it is strongly recommended to reserve enough space for maintenance. Please make sure the filter is installed at the front of the valve so as not to block the foreign matter to affect the valve action.

Accessories

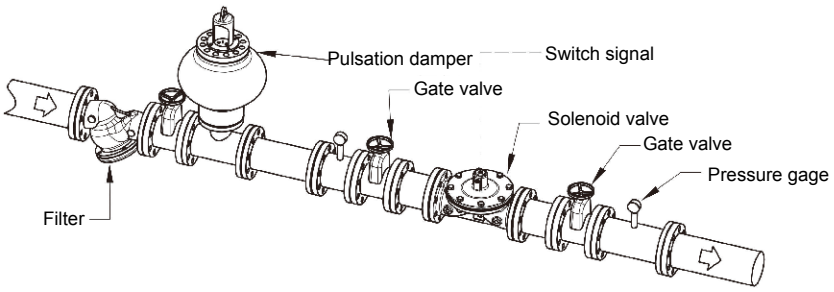
① Filter
② Ball valve
③ Needle control valve
④ Ball valve
⑤ Solenoid valve
⑥ Ball valve
⑦ Body



Piping schematic

Application

Industry use GKV51SL solenoid control valve has a broad range of occasion, such as mixing, cleaning, stirring, etc. which need to switch control.
The switching signal can be controlled with a direct control signal or a sensor-generated signal. Solenoid control valve can be used to control the water level, through the sensor installed in the water tank on the switch signal to control the solenoid valve switch, so as to achieve the purpose of controlling the water level.

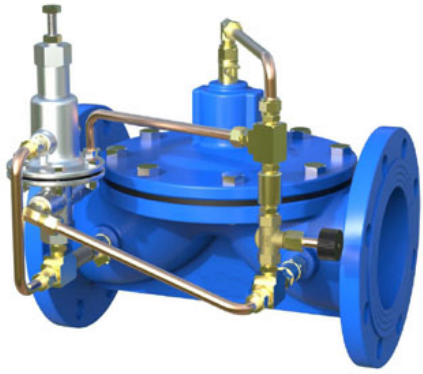


Pressure Differential Relief Valves GKV57DR

Product Feature

- Accurate pressure differential control
- Small size and light weight
- Greater flow
- Reliable full-hydraulic control
- Ttight, reliable seal when closed
- Built-in filter device to prevent the catheter system plug

GKV57DR light pressure differential bypass valve is fully automatic, hydraulic control valves. It is designed to maintain the pressure differential between the two lines in order to avoid pipeline pressure differentials that exceed the system's tolerable range due to other valve movements or changes in demand. The valve opens when the differential pressure increases and closes automatically when the differential pressure drops. If the optional check feature is selected, when the reverse pressure is generated, the return liquid enters the chamber causing the valve to close and prevent the return of the liquid.



GKV57DR

Material Specification

Body / Bonnet: Ductile Iron / Stainless Steel
Stem: stainless steel
Piping: copper / stainless steel / rubber hose
Diaphragm: EPDM
Fasteners and springs: stainless steel

Working Pressure Range

175PSI / 235PSI / 350PSI
10Bar / 16Bar / 25Bar

Flange Standard

ANSI / BSEN / ISO / DIN

Temperature/ Medium

0℃~100℃ normal temperature water

Pilot Regulator Parameter

Regulation parameter: 0.1~5kgf/cm2 , 5~9kgf/cm2 , 7~17 kgf/cm2

Material: Bronze/Stainless steel

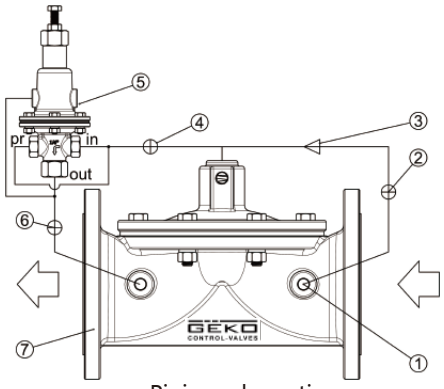
Please provide the following information when ordering

Valve type / valve size / pressure rating
Interface type / voltage range / other optional accessories

* Note: When installing the valve, it is strongly recommended to reserve enough space for maintenance. Please make sure the filter is installed at the front of the valve so as not to block the foreign matter to affect the valve action.

Accessories

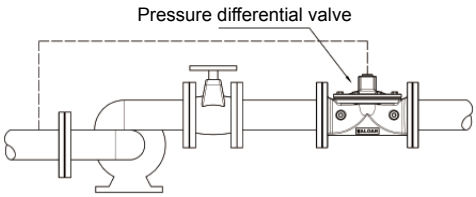
① Filter
② Ball valve
③ Needle control valve
④ Ball valve
⑤ Pressure differential controller
⑥ Ball valve
⑦ Body



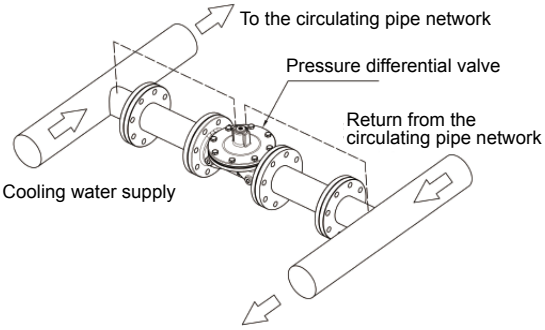
Piping schematic

Application

The pressure differential bypass valve maintains the pressure differential across the centrifugal pump flow, regardless of upstream supply or downstream demand changes. By controlling the pressure differential between the two ends of the centrifugal pump, you can control the pump flow.



Install the GKV57DR constant pressure differential bypass valve in the circulating water system as shown above. The pressure differential between the supply pipe and the return pipe can be ensured and the pressure difference between the two pipes is constant, whatever the variations in the flow rate and the supply pressure changes.



Muliti-Funtion Valves GKV50MF

Product Feature

- Position indicator
- Non-lubrication required
- Reserved for test connection
- Removable bonnet design for easy pipeline maintenance
- Horizontal or vertical installation
- O-ring seal is used to ensure no leakage
- A variety of functions in an organic whole, save procurement costs

GKV50MF

Multi-function valves can be used to achieve more functions on the same valve body. First of all, it can be used as a muffler check valve, and also can be used as an on-off valve. In addition, it can achieve the function of the balance valve, the valve also reserved for the test interface.

The valve uses a unique V-shaped valve seat makes the valve has a good adjustable performance. Because of the design features, the valve does not require special tools that can be maintained in the pipeline without removing the valve from the pipeline.

Multi-function valve integrated butterfly valve, balance valve, muffler check valve and measuring valve and other functions in an organic whole. The use of multi-function valve allows you to shorten the installation time, installation space, costs, including hardware costs, labor costs.

Material Specification

Body / Bonnet: Ductile Iron / Stainless Steel
Stem: stainless steel
Fasteners and springs: stainless steel

Working Pressure Range

175PSI / 235PSI / 350PSI
10Bar / 16Bar / 25Bar

Flange Standard

ANSI / BSEN / ISO / DIN

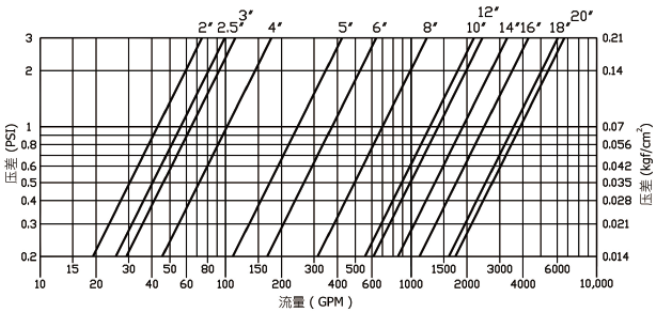
Temperature/ Medium

0℃~100℃ normal temperature water

Please provide the following information when ordering

Valve type / valve size / pressure rating
Interface type / voltage range / other optional accessories

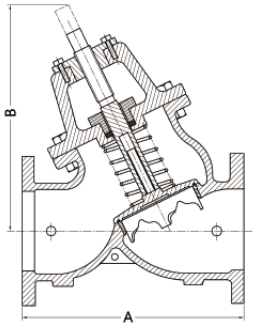
Pressure loss curve



Dimension

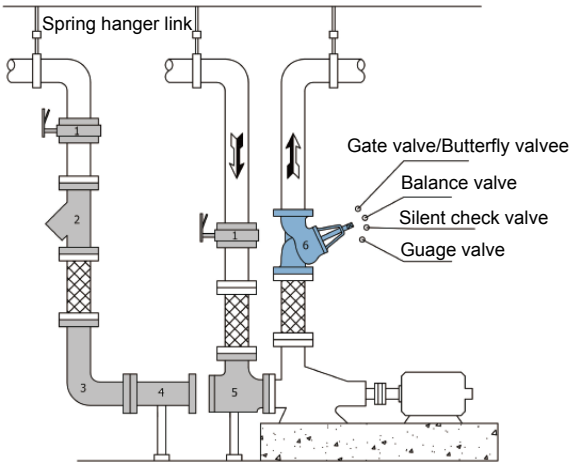
Size mm/In	A (mm)	B (mm)	Weight (kg)
DN50 (2"Tr)	184	173	6
DN50 (2")	205	236	11
DN65 (2.5")	229	240	15
DN80 (3")	250	240	24
DN100 (4")	320	310	43
DN125 (5")	370	340	62
DN150 (6")	415	370	85
DN200 (8")	500	530	150
DN250 (10")	605	610	220
DN300 (12")	725	665	370
DN350 (14")	733	715	385
DN400 (16")	990	970	450
DN450 (18")	1000	1125	550
DN500 (20")	1100	1111	680

1. The test connection is 1/4 "thread.
2. For special needs, please contact the manufacturer for more details.



Application

1.Butterfly valve
2. Y-type filter
3. Elbow
4. Suction stabilizer
5. Diffuser
6. Multi-function valve



Pulsation Damper GKV68PD

Product Feature

- Similar to the design of diaphragm of the air bag
- Split design
- Reliable sealing performance
- Optional multiple interface sizes and volumes
- Lug type protective bonnet
- Small size and light weight

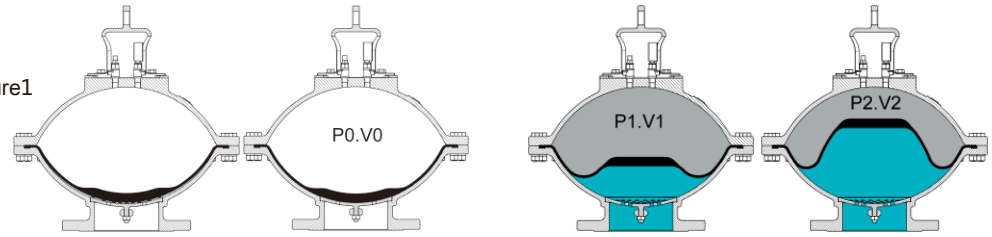
GKV68PD

Pulsation damper is a dedicated pressure storage equipment for pressurized liquids. In all practical applications, it has been shown that the liquid is incompressible, and that the problem can be solved by the compressibility of the gas (see Fig. 1).

GKV68PD pulsation damper of the pressure inside the shell is installed in a similar separation air bag. An inert gas (nitrogen) with a pressure of P0 comes into the bladder through the inlet valve until the air bag expands to fill the entire internal space of the pulse absorber of volume VO. When the circulating pressure P1 is larger than the preset pressure P0 of the gas, the air bag is compressed to V1 due to the external circulation pressure.

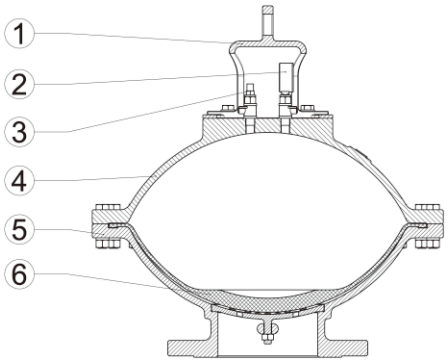
If the pressure of the liquid is increased to P2, the volume of the gas is reduced to V2 and the pressure is increased, so the pressure of the liquid has been balanced. And that is to say the airbag inside the pulsation damper has been compressed, the volume change is ΔV = V1-V2. It stores the energy can be used where we need.

Picture1



Material Specification

① Protective bonnet (ductile iron)
② Pressure gauge
③ Inflatable mouth (stainless steel)
④ Upper shell (cast steel / stainless steel)
⑤ Down shell (cast steel / stainless steel)
⑥ Air bag (EPDM / VITON)



Working Pressure Range

The maximum working pressure up to 25bar, the highest withstand pressure up to 55bar

Volume

0.7L, 3L, 6L, 17L, 30L, 50L

Flange Standard

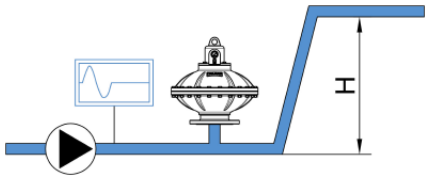
ANSI / BSEN / ISO / DIN

Note: The special use of the environment can be based on the actual length, flow, head and other parameters provided by the user site for calculating the capacity of the different pulsation damper.

» Main Application

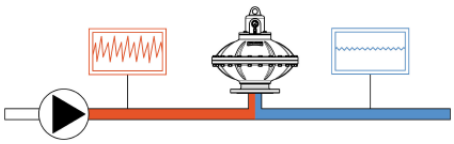
Back pressure impactor

When a pump is used to transport the liquid to a high position and the pump suddenly loses its power, the liquid in the pipeline will flow back and accelerate in the pipeline, creating a damaging water hammer at the check valve in the pump outlet. If the pipeline is too long, the water hammer may cause pipe burst. The longer the pipeline, the time of fluid acceleration would be longer, which leads to serious impact. Installation of GEKO pulsation damper can effectively absorb water hammer. At the same time as GEKO pulsation damper can be the first time effective absorption of water hammer, so as to ensure that the pressure in the pipeline system is stable.



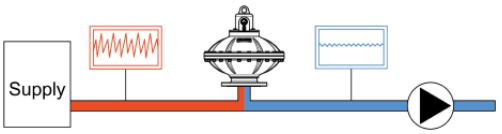
Send-end Shock absorber

For the circulating pump, because its piston will do circular motion, it will naturally produce water hammer and hydraulic impact. During the pump discharge stroke, excess liquid enters the pulsation damper and absorbs excess pressure. During the recovery of the piston, the water absorbed in the pulsation damper would enter into the system, thereby compensating for the pressure drop caused by the return of the water pump piston and finally achieving the purpose of stabilizing the system pressure.



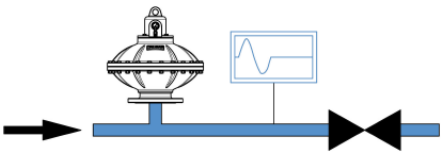
Suction-end shock absorber

If there is not sufficient supply, the pump will not be able to achieve full efficiency. The "pitting phenomenon" is related to the flow velocity, acceleration and friction of the fluid. If the pump suction side supply is insufficient, the supply side in the suction of the pump to form a vacuum, resulting in "hole corrosion phenomenon". Installation of the GEKO pulsation damper at the suction end of the pump, the pulsation damper can be used as a buffer tank. If the pump is not inhaled, the fluid stored in the hammer eliminator is replenished into the system to ensure that the pump is adequately inhaled. If the system supply is too large, excess liquid will enter the pulsation damper, which ensure that the suction side of the pump stability for greatly improving the life of the pump.



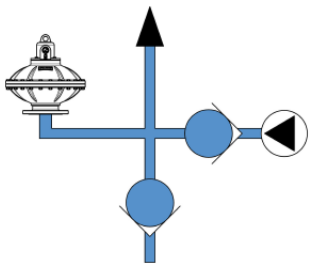
Eliminate hydraulic shock

All flowing fluids have kinetic energy, and when the fluid is suddenly stopped, kinetic energy is converted to pressure, which is usually very dangerous. This "water hammer phenomenon" is usually generated in the installation of a fast closing valve on the pipeline system. "Water hammer phenomenon" produces enough strength to destroy pipelines, valves and pumps and other equipment. Water hammer phenomenon has many reasons, such as the rapid closure of the valve, back pressure shock, pump start or stop, the system suddenly lost power (such as encounter power failure) and so on.



Energy storage

If the system encounters a sudden power failure or pump failure, etc., GEKO pulsation damper can maintain system pressure in short time, which ensure that other rotating, working parts can still be lubricated, cooling, etc., so as to well protected equipment.



Thermal expansion absorption

If the system is a closed system, when the liquid flows, due to friction or other reasons, the temperature of the liquid will rise, the resulting expansion of the liquid system will also increase the pressure. If the pressure rises above the safety pressure of the system, this may lead to pipe rupture, valve failure, tube-line precision instrument damage, and so on. If the system leaks, the liquid in the pipeline may cause permanent damage to the personnel and the surrounding environment. If the appropriate GEKO pulsation damper is used, the pressure overrun due to the thermal expansion of the liquid can be well absorbed, which ensures system operates safely.

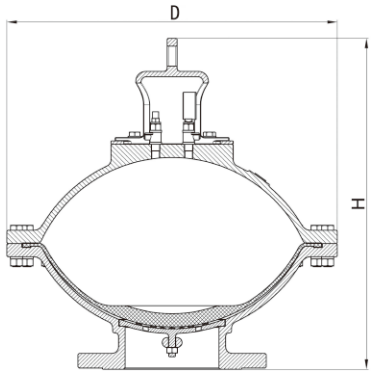
Isolation device

If the pressure parameters of the system are critical to the safe operation of the system, and the instrument measurement does not allow contact with the fluid in the system, the GEKO pulsation damper can be used to solve this problem. In this case, GEKO pulsation damper of the diaphragm play a role in isolation.

» Dimension

* Note: The absorption effect of pulsation damper on the water hammer is not standard by size, but the standard volume. Because the volume of same size of eliminator is variable. For example, 4 "eliminator with a volume of 10 liters, a volume of 100 liters, installed in the same system, of course the water hammer absorption effect of 100 liters of the absorber is more better. GEKO 2” volume can up to 10 liters, also be 100 liters. If you choose the mistaken choice of the eliminator, 2 "absorber and the other absorbers may not be as 1/4 times effective as GEKO's.

mm	in	H(mm)	D(mm)	Volume(ml)
50	2	240	180	700
65	21/2	355	300	3000
80	3	355	300	3000
100	4	395	360	6000
125	5	395	360	6000
150	6	500	500	17000
200	8	565	570	30000
250	10	565	570	30000
300	12	620	650	50000



» Air Bag Feature

ISO	Temp (℃)	Medium
NBR	-20+85	Non-flammable liquids (HFA-HFB-HFC), aliphatic, hydro carbon, butane, diesel oil, fuel oil, and so on.
NBR	-40+70	With the standard nitrile, a variety of Freon (low-temperature nitrile acetonitrile content of less than the standard nitrile, it is more suitable for low temperature Environment, but its chemical resistance is poor)
NBR	-10+90	Regular high-grade aromatic gasoline (and standard nitrile in all the liquid are suitable)
HNBR	-50+130	The same standard nitrile, but in high temperature and low temperature environments are very good
NBR	-20+85	Foods
IIR	-20+90	Phosphates, hot water, ammonia, certain Freon (22-31-502), basic soda, glycol brake oil, certain acid diols, ketones, esters, skydrol 7000 etc.
EPDM	-20+90	Brake oil, hot water, leaching liquid, clean economy, alkaline water (HFC), many acid and alkali, saline solution, skydrol500, etc.
CR	-20+85	Freon (12-21-22-113-114-115), aqueous solution, ammonia, carbon dioxide, mineral oil, paraffin oil, silicone oilA
ECO	-30+100	Plus lead gasoline, mineral oil

Sution Diffuser GKV23SD

Product Feature

- Built-in deflector to make the fluid more stable
- Start the protective filter to prevent foreign matter into the pump.
- Available for the same or different size of the diffuser
- Combined with the filter, elbow, end suction stabilizer, save space and cost.
- The filter's area is larger than the traditional filter, the filter opening rate up to 63%.

GKV23SD

Material Specification

Body / Bonnet: Ductile Iron
Filter: stainless steel
O ring: EPDM

Flange Standard

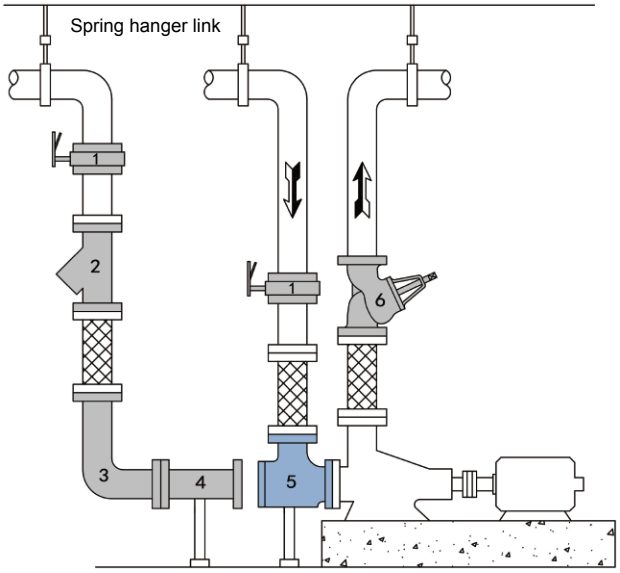
ANSI / BSEN / DIN

Working Pressure Range

175PSI / 235PSI / 350PSI
10Bar /16Bar / 25Bar

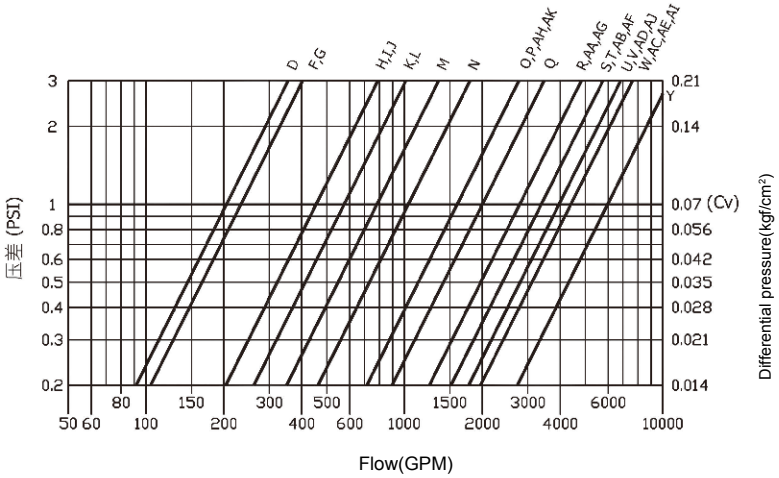
Temperature/ Medium

0℃~100℃ normal temperature water



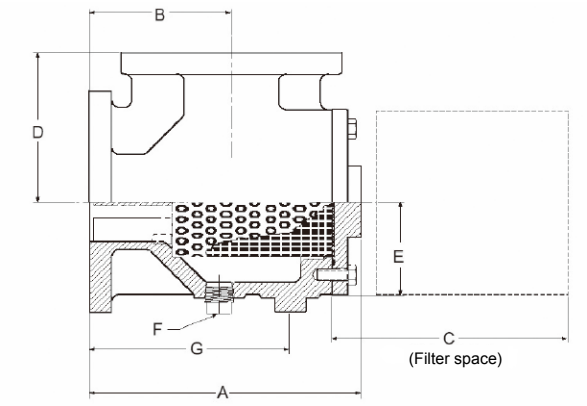
1.Butterfly valve
2. Y-type filter
3. Elbow
4. Suction stabilizer
5. Diffuser
6. Multi-function valve

Diffuser pressure drop curve



Specifications

The Contractor shall install the diffuser at the designated location and the 14 "x 12" diffuser shall be ductile iron with a deflector. The filter shall have a size of 20 mesh stainless steel start protection filter, the filter should be stainless steel, and the body should be used for welding bracket.



* Explaination

1. All dimensions in mm and overcurrent area in cm2.
2. All dimensions, area and weight values in the table are approximate.
3. The Start protective filter should be removed after the system test run,
4. The Start protective filter mesh for a 20-mesh braid.
5. When the pressure difference of diffuser inlet and outlet is more than 0.3kgf/cm2, it need to remove the garbage in the diffuser.
6. If you have special needs, please contact the factory for more details.

CODE	SIZE(in)	Inlet (mm)	Outlet (mm)	Filter		SIZEmm							WEIGHT (kg)
				Punching total area	Punching diameter	A	B	C	D	E	F	G	
C	2x2	50	50	96	2	205	120	127	108	60	15	155	10
D	2.5x2.5	65	65	240	3.97	220	125	138	115	80	15	165	17
F	3x3	80	80	330	3.97	255	135	162	130	90	25	185	25
G	4x3	100	80	330	3.97	255	135	162	130	90	25	185	25
H	4x4	100	100	500	3.97	330	185	202	145	105	25	240	32
I	5x4	125	100	500	3.97	330	185	202	145	105	25	240	35
K	5x5	125	125	800	3.97	410	230	265	180	120	25	300	40
J	6x4	150	100	500	3.97	330	185	202	145	105	25	240	37
L	6x5	150	125	800	3.97	400	230	265	180	120	25	300	48
M	6x6	150	150	930	3.97	400	220	257	209	140	25	275	58
N	8x6	200	150	930	3.97	400	220	257	205	140	25	275	60
O	8x8	200	200	1600	3.97	501	280	350	240	170	25	370	92
AK	10X6	250	150	1600	3.97	501	280	350	240	170	25	370	85
P	10x8	250	200	1600	3.97	501	280	350	240	170	25	370	95
Q	10x10	250	250	2500	3.97	615	325	465	280	190	25	425	128
AH	12X8	300	200	2500	3.97	625	325	465	280	190	25	425	130
R	12x10	300	250	2500	3.97	615	325	465	280	190	25	425	160
S	12x12	300	300	3350	3.97	680	380	535	305	240	25	485	214
AG	14X10	350	250	3240	3.97	680	380	535	305	240	25	485	226
T	14x12	350	300	3350	3.97	682	380	535	305	240	25	485	230
U	14x14	350	350	4880	3.97	790	420	625	356	280	25	550	255
AA	16x10	400	250	3490	3.97	700	380	543	320	260	25	480	255
AB	16x12	400	300	3490	3.97	700	380	543	320	260	25	480	262
V	16x14	400	350	4880	3.97	783	420	625	356	280	25	550	265
W	16x16	400	400	5290	3.97	790	450	615	400	320	25	550	370
AF	18 X12	450	300	3980	3.97	769	430	615	320	240	25	480	280
AJ	18X14	450	350	4880	3.97	783	420	625	356	280	25	550	300
AC	18X16	450	400	5630	3.97	825	450	656	400	320	25	580	390
X	18 x18	450	450	7960	3.97	975	540	805	430	350	25	680	506
AD	20X14	500	350	7000	3.97	1020	600	810	500	360	25	750	580
AE	20X16	500	400	7000	3.97	1020	600	810	500	360	25	750	583
Y	20x20	500	500	9730	3.97	1068	650	855	500	400	25	750	585

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Bronze，Iron and Ductile Iron Valves

Water Control Valves

Flow Balance Regulating Valve

GEKO// International

*If you found data have errors or questions, please contact the manufacturer to be confirmed.
*The drawings and materials in this catalog change without notice by GEKO.
And we reserve the right to further update and modify data.