



Kc-Val

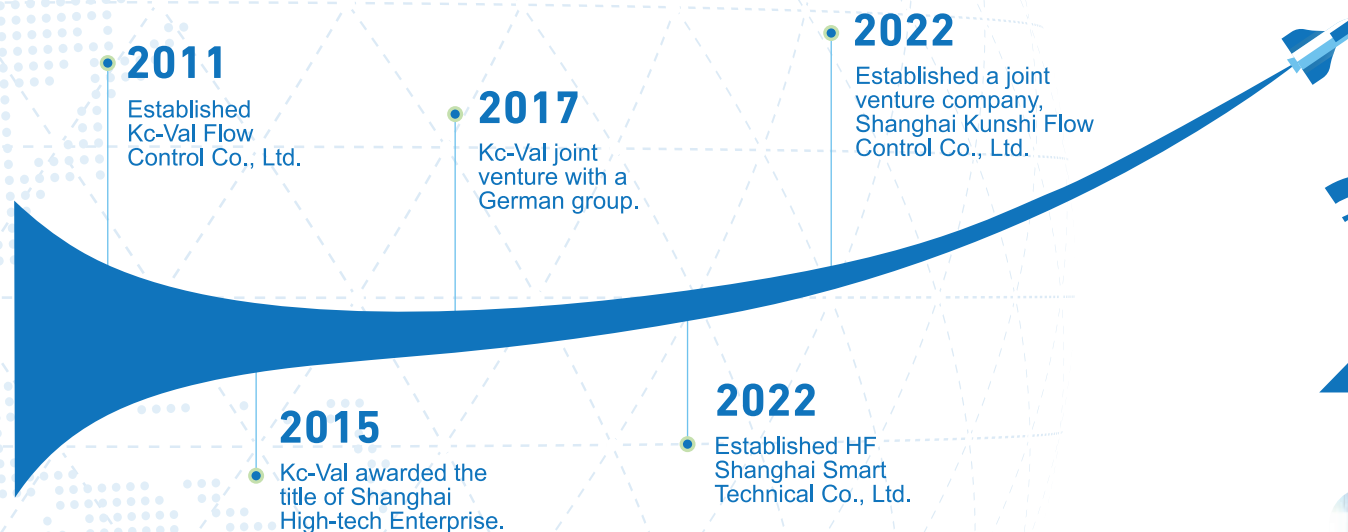
HF



HF Shanghai Smart Technical Co.,Ltd **Kc-Val Control Flow Co.,Ltd**

ООО «ТИ-СИСТЕМС» ИНЖИНИРИНГ И ПОСТАВКА ТЕХНОЛОГИЧЕСКОГО ОБОРУДОВАНИЯ
Интернет: www.tisys.ru www.tisys.kz www.tisys.by www.tesec.ru www.ти-системс.рф
Телефоны: +7 (495) 7774788, 7489626, (925) 5007155, 54, 65
Эл. почта: info@tisys.ru info@tisys.kz info@tisys.by

HF platform history



20 YEARS SINCE 2002

What are we doing

Company Value

© HF has built an open cooperation platform by adhering to the value of “ Be honest, Positive and Energetic, Be creative, Win-Win and Common Prosperity ”.

Company Misson

© HF focus on the best solutions to functional valves of water, fueling, gas and other media: For example: pressure control, flow regulation, water hammer suppression, liquid level switch, differential pressure balance, vacuum protection, energy saving and noise reduction, etc.

Customer Service

© HF team have 40 people, 80% of whom are senior in this field. 12 engineers & 4 quality controller in the R&D and QA Department.

© HF provides the most competitive solutions with the most professional technical support, the most comprehensive quality management and the most premium customer service.

© HF promise:

Warranty: 24 Months.

Response: 24 Hours on line with Every Day



Hydraulic Control Valve for waterworks –Level control series

K: Fully Bore (FB)
R: Reduce Bore (RB)

K100/R100
Float control
valve



Level control of water tanks, reservoirs, pools and other storage devices

The Model K100 Level Control Valve is a modulating valve that accurately controls the water level in tanks. This valve is designed to open when the water level reaches a preset low point, and close drip-tight when the level reaches a preset high point. The float pilot could be installed separately in the tank or together with the main valve. Water level difference: 20mm

K10B /R10B
Bi-level control
valve



The main function same as K100. But there is no back pressure in the control chamber of the main valve. And the main valve can be fully open. Water level difference: 100-1000mm adjustable.

K106/R106
Float and solenoid
control valve



The main function same as K100. But when the float pilot fails, it can open/close through the solenoid valve.

K10A/R10A
Altitude control
valve



Level control of high water tower

The altitude control valve close drip-tight and stop filling water in the water tower when the water level reaches a high level. And opens automatically and filling water when the water level lower than the low level setting.

The altitude difference is setting by the height of the water tower (5-150m) and the water level control height (20-1000mm) .

Product standard: EN1074-5 DN40-1200 DN1400-1600 in process

Pressure Range: PN10/PN16/PN25/PN40; ANSI CL125/150/300; JIS 10K/16K; AS Table D, Table E; AS4087 PN16

Material Option: EN-GJS500-7 /SUS304/SUS316/SUS316L/SAF2205 /Bronze Seals: NBR/EPDM/HNBR

ООО «ТИ-СИСТЕМС» ИНЖИНИРИНГ И ПОСТАВКА ТЕХНОЛОГИЧЕСКОГО ОБОРУДОВАНИЯ

Интернет: www.tisys.ru www.tisys.kz www.tisys.by www.tesec.ru www.ти-системс.рф

Телефоны: +7 (495) 7774788, 7489626, (925) 5007155, 54, 65

Эл. почта: info@tisys.ru info@tisys.kz info@tisys.by

Hydraulic Control Valve for waterworks –Pressure Control Series –Pressure reducing series

K: Fully Bore (FB)
R: Reduce Bore (RB)

K200/R200
Pressure reducing valve



Pipeline systems need to provide a stable pressure to users

Pressure reducing valve automatically reduces a higher of inlet pressure to a stable lower outlet pressure , regardless of changing flow rate and /or varying inlet pressure .
Static pressure reducing: Even the flow is Zero and no user is using.
Less than 10% for one year acc. UL static test
Regulation accuracy: +/-5 %
Inlet pressure need be 1.5 bar higher than outlet.

K2FB/R2FB
Pressure reduce valve with small flow by pass



Add the by pass pressure reduce pipe line with the main pressure reduce valve.
In the middle night or the ender user just need very small flow, the main valve is close, only the by pass pressure reduce pipeline is opening to control the stable outlet pressure.

K20D/R20D
Dual stage pressure reducing valve



The valve could setting two outlet pressure, high demand with high pressure, low demand with low pressure. Solenoid valve change the channel.
Reducing leakage and pipe burst risks. Only high pressure/low pressure can be chosen for each period.

K20M/R20M
Pressure management valve



Electronic actuator drive the pressure reduce pilot, change the setting pressure timely according to user requirement. IP68 approval.

K20L/R20L
Low outlet pressure reduce valve



Main function is same as K200, but the outlet pressure can be 0.1-1.0bar.

Product standard: EN1074-5 DN40-1200 DN1400-1600 in process

Pressure Range: PN10/PN16/PN25/PN40; ANSI CL125/150/300; JIS 10K/16K; AS Table D, Table E; AS4087 PN16

Material Option: EN-GJS500-7 /SUS304/SUS316/SUS316L/SAF2205 /Bronze Seals: NBR/EPDM/HNBR

Hydraulic Control Valve for waterworks –Pressure Control Series –Direct acting pressure reducing valve

D20E Standard Type



It is using for pipeline systems need to provide a stable pressure to users

The Model D20E Pressure Reducing Valve automatically reduces a higher inlet pressure to a stable lower outlet pressure, even if changing flow rate and/or varying inlet pressure.

Change of outlet pressure/change of inlet pressure <0.1

The setting pressure can be adjusted by adjusting the screw, and when there is no user using water at the outlet end, it is immediately closed to achieve hydrostatic sealing.

Regulation accuracy: +/- 10%

Outlet pressure must higher than 1bar.

D200 Premium Type



End users require more stable pressure

D200 is almost same as D20E . Which is more sensitive & accurate.

Regulation accuracy: +/-5 %

Outlet pressure must higher than 1bar.

DN: ½"-2" PN10/16/25 Outlet pressure range: 1.5-7.0 bar
Material Option: SUS304/SUS316/SAF2205 /Bronze Seals: NBR/EPDM/HNBR
Product standard: EN1567 & ASSE 1003

ООО «ТИ-СИСТЕМС» ИНЖИНИРИНГ И ПОСТАВКА ТЕХНОЛОГИЧЕСКОГО ОБОРУДОВАНИЯ

Интернет: www.tisys.ru www.tisys.kz www.tisys.by www.tesec.ru www.ти-системс.рф

Телефоны: +7 (495) 7774788, 7489626, (925) 5007155, 54, 65

Эл. почта: info@tisys.ru info@tisys.kz info@tisys.by

Hydraulic Control Valve for waterworks –Pressure Control Series –Overpressure protection and water hammer prevention

Direct acting safety valve



Screwed angle type safety valve, pipeline overpressure protection. The safety valve opens to discharge excess pressure when the pressure in the pipeline exceeds the setting value, when the pipeline pressure drops to preset pressure, the safety valve is close.

DN:15-50 Pressure Range: PN10/16/25

Material Option: SUS304/SUS316/SAF2205 Seals: PTFE/PCTFE

K500 Pressure sustaining /Relief valve



It is used to discharge excess pressure and keep the pressure as setting requirement in the upstream.

Pressure control accuracy:

Opening pressure: +0.2 bar; Opening speed: <0.5 seconds

Fully close Pressure: -1 bar

K520 Pressure sustaining and reduce valve



When the inlet pressure is exceed the setting of sustaining pilot, the valve is open, then pressure reduce pilot keep the outlet setting pressure.

K550 Surge anticipation valve



Surge Anticipation Valve is indispensable for protecting pumps, pumping equipment and all applicable pipelines from dangerous pressure surges caused by rapid changes of flow velocity within a pipeline.

When pumping systems are started and stopped gradually, harmful surges do not occur. However, should a power failure take place, the abrupt stopping of the pump can cause dangerous surges in the system which could result in severe equipment damage. Power failure to a pump will usually result in a down surge in pressure, followed by an up surge in pressure. The surge control valve opens on the initial low pressure wave, diverting the returning high pressure wave from the system. In effect, the valve has anticipated the returning high pressure wave and is open to dissipate the damage causing surge. The valve will then close slowly without generating any further pressure surges.

Product standard: EN1074-5 DN40-1200 DN1400-1600 in process

Pressure Range: PN10/PN16/PN25/PN40; ANSI CL125/150/300; JIS 10K/16K; AS Table D, Table E; AS4087 PN16

Material Option: EN-GJS500-7 /SUS304/SUS316/SUS316L/SAF2205 /Bronze Seals: NBR/EPDM/HNBR

Hydraulic Control Valve for waterworks –Solenoid Control Series

K600 Solenoid control valve



Solenoid Control Valve is an on-off control valve that either opens or closes upon receiving an electrical signal to the solenoid pilot control. This valve consists of a main valve and a two-way solenoid valve that alternately applies pressure to or relieves pressure from the diaphragm chamber of the main valve. It is furnished either normally open (de-energized solenoid to open) or normally closed (energized solenoid to open).

K66B Dual solenoid control valve and manual by pass



The inlet and outlet end of control chamber are equipped with two solenoid valve to the upper cavity. Also it can keep the main valve quickly open or close, adjust the opening, keep the opening in a fixed position. Work with PLC, pressure sensor, flow meter and pumps, the dual solenoid valve could meet all the control function of pipe system.

K66M All function control valve



The valve also have straight stroke sensor for valve opening as 4-20mA or 0.5-4.5V. Combine with variable frequency pump, flow meter, pressure sensor, PLC, it can realize all functions such as close, flow regulation and pressure regulation, fixed opening control, rough instantaneous flow value of cumulative flow.

Product standard: EN1074-5 DN40-1200 DN1400-1600 in process

Pressure Range: PN10/PN16/PN25/PN40; ANSI CL125/150/300; JIS 10K/16K; AS Table D, Table E; AS4087 PN16

Material Option: EN-GJS500-7 /SUS304/SUS316/SUS316L/SAF2205 /Bronze Seals: NBR/EPDM/HNBR

Power: DC/AC, 12V/24V/220V

When selecting and ordering, according to the use time to decide whether normally open (NO) or normally closed (NC)

ООО «ТИ-СИСТЕМС» ИНЖИНИРИНГ И ПОСТАВКА ТЕХНОЛОГИЧЕСКОГО ОБОРУДОВАНИЯ

Интернет: www.tisys.ru www.tisys.kz www.tisys.by www.tesec.ru www.ти-системс.рф

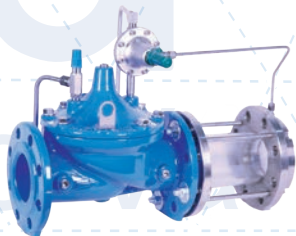
Телефоны: +7 (495) 7774788, 7489626, (925) 5007155, 54, 65

Эл. почта: info@tisys.ru info@tisys.kz info@tisys.by

Hydraulic Control Valve for waterworks –Flow Control Series

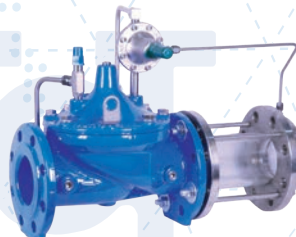
K: Fully Bore (FB)
R: Reduce Bore (RB)

K400/R400
Flow control valve



Rate of Flow Control Valve prevents excessive flow by limiting flow to a preselected maximum rate, regardless of changing line pressure. The pilot control responds to the differential pressure produced across an orifice plate installed downstream of the valve. The valve includes an orifice plate with a holder that should be installed one to five pipe diameters downstream of the valve.

K420/R420
Flow control and pressure reducing valve



Providing preset flow rate and then keep the outlet setting pressure.

K800/R800
Different pressure control valve



In HVAC system, keep the differential pressure between the supply pipe and return pipe.

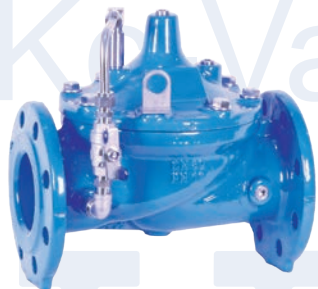
Product standard: EN1074-5 DN40-1200 DN1400-1600 in process

Pressure Range: PN10/PN16/PN25/PN40; ANSI CL125/150/300; JIS 10K/16K; AS Table D, Table E; AS4087 PN16

Material Option: EN-GJS500-7 /SUS304/SUS316/SUS316L/SAF2205 /Bronze Seals: NBR/EPDM/HNBR

Hydraulic Control Valve – Pump station check valve

K300
Check valve



Installed on the outlet of the water pump on the line, check and prevent water hammer.

K745
Multi-function pump control valve



The double-chamber multi-function pump control valve is installed at the outlet of the pump to prevent and eliminate pipeline surges caused by the starting and stopping of the pump. When the water pump is opened, the inlet pressure gradually enters the valve cavity, so that the valve opens slowly, and the opening speed can be adjusted by the needle valve. When the pump suddenly loses power or stops, the main disc closes quickly under the combined action of its own gravity and the water hammer. The secondary disc closes slowly to prevent the damage of the high-pressure water hammer at the rear end to the front pump; It can be fully opened with less pressure loss.

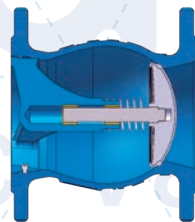
Product standard: EN1074-5 DN40-1200 DN1400-1600 in process

Pressure Range: PN10/PN16/PN25/PN40; ANSI CL125/150/300; JIS 10K/16K; AS Table D, Table E; AS4087 PN16

Material Option: EN-GJS500-7 /SUS304/SUS316/SUS316L/SAF2205 /Bronze **Seals:** NBR/EPDM/HNBR

Silent check valve/Nozzle check valve

SCV
Silent check
valve



Silent check valve so that the flow can be smooth and silent .
Head loss is only 0.6WMC with 2m/s
The velocity of backflow is only 0.2s
Stainless steel +EPDM Disc.
Epoxy coated Ductile iron body & diffuser .
EN-GJS 500-7 or stainless valve body.

NCV
Nozzle check
valve



There is a diffuser in the nozzle check valve so that the flow can be more smooth and silent.
Head loss is only 0.5WMC with 2m/s
The velocity of backflow is only 0.2s
Stainless steel +EPDM Disc.
Epoxy coated Ductile iron body & diffuser.
EN-GJS 500-7 or stainless valve body.

NCV
Big size Nozzle
check valve



It is horizontally loaded
With channel nozzle design inside and outside to avoid turbulence and reduce pressure loss.
With front and bronze bush guide stem replace of the old structure of only one side bush guide stem which the valve disc is in a single-arm beam when installed horizontally and the closing speed is slow when valve stops and also the disc can't reset so the leakage will happen.
With anti-cavitation design in the internal flow channel.

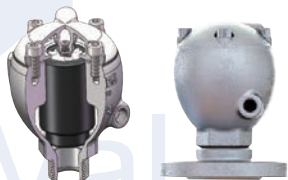
Product standard: EN1074-3 DN50-600 DN700-2000 in Process

Pressure Range: PN10/PN16/PN25/PN40; ANSI CL125/150/300; JIS 10K/16K; AS Table D, Table E; AS4087 PN16

Material Option: EN-GJS 500-7 /SUS304/SUS316/SUS316L/SAF2205 Seals: NBR/EPDM/HNBR

Air Valve

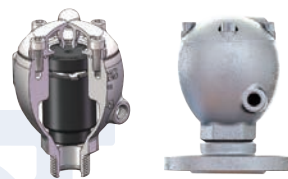
MAV Micro air valve- Two function (2F1F)



Air release
Air breath into and protect pipeline

One level PP float
Flush port

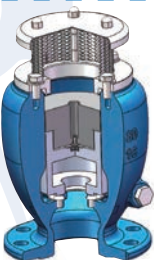
MAVA Anti-Hammer Micro air valve-Three func- tion (3F2F)



Mass air release
Micro air release
Air breath into and protect pipeline

Two level PP float
Flush port

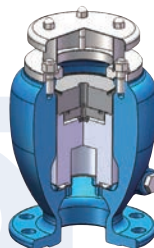
CAV Air valve-Three function (3F2F)



Mass air release
Micro air release
Air breath into and protect pipeline

Two level PP float
Flush port

CAVA Anti-Hammer air valve-Four function (4F3F)



Mass air release
Micro air release
Anti-hammer
Air breath into and protect pipeline

Three level PP float
Flush port

Product standard: EN1074-4 DN25-400

Pressure Range: PN10/PN16/PN25/PN40; ANSI CL125/150/300; JIS 10K/16K; AS Table D, Table E; AS4087 PN16

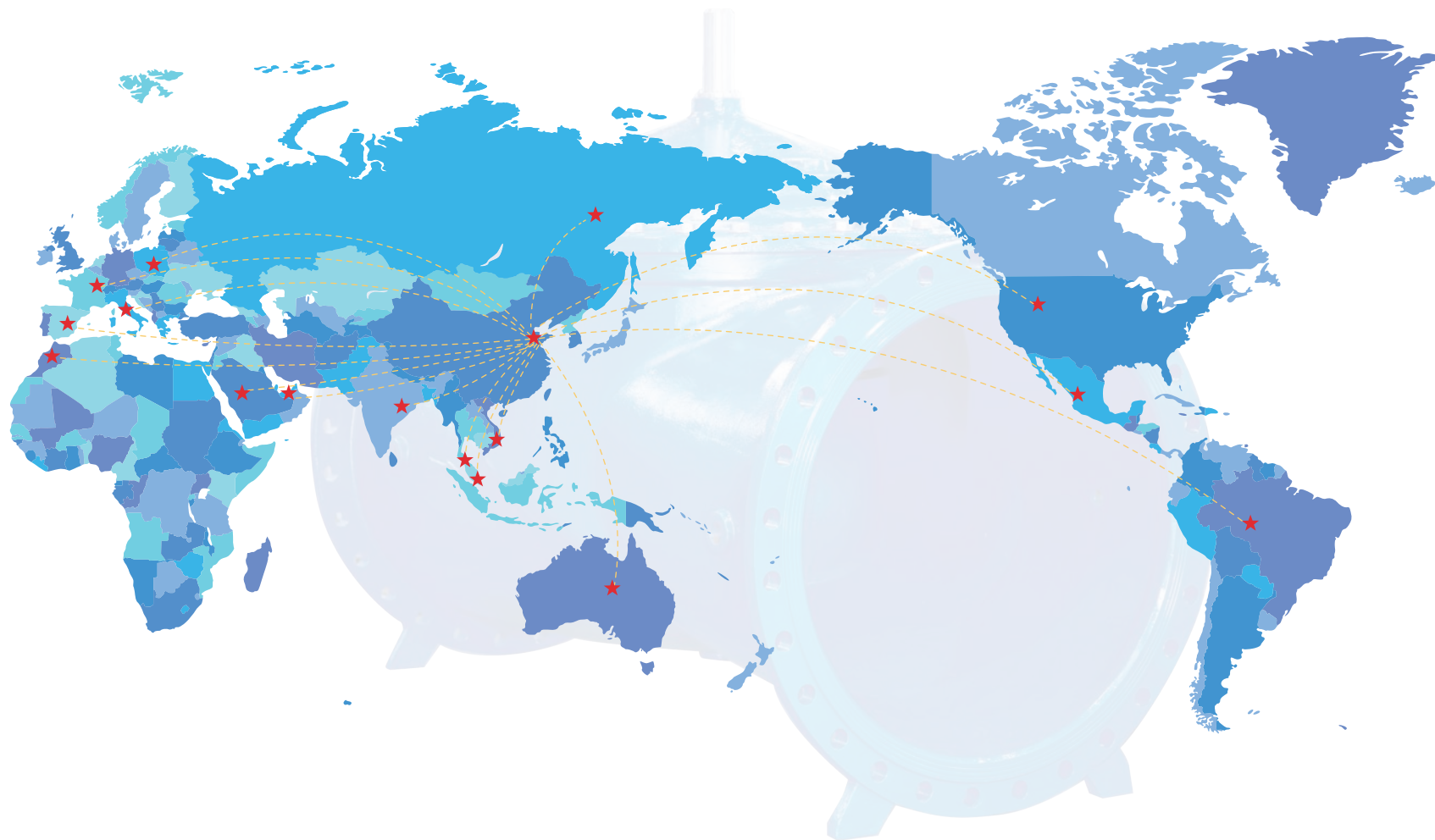
Material Option: EN-GJS 500-7/SUS304/SUS316/SUS316L/SAF2205 /Bronze Seals: NBR/EPDM/HNBR

ООО «ТИ-СИСТЕМС» ИНЖИНИРИНГ И ПОСТАВКА ТЕХНОЛОГИЧЕСКОГО ОБОРУДОВАНИЯ

Интернет: www.tisys.ru www.tisys.kz www.tisys.by www.tesec.ru www.ти-системс.рф

Телефоны: +7 (495) 7774788, 7489626, (925) 5007155, 54, 65

Эл. почта: info@tisys.ru info@tisys.kz info@tisys.by



ООО «ТИ-СИСТЕМС» ИНЖИНИРИНГ И ПОСТАВКА ТЕХНОЛОГИЧЕСКОГО ОБОРУДОВАНИЯ
Интернет: www.tisys.ru www.tisys.kz www.tisys.by www.tesec.ru www.ти-системс.рф
Телефоны: +7 (495) 7774788, 7489626, (925) 5007155, 54, 65
Эл. почта: info@tisys.ru info@tisys.kz info@tisys.by