



ABKO TEC

IWAKO

BASKET STRAINER CATALOG



082 547 9989



saleslabkotec@gmail.com



www.strainer-filter.com



www.abkotec.com



@abkotec



082 547 9989



ABOUT ABKO TEC

ABKO TEC IS A PROFESSIONAL SUPPLIER AND MANUFACTURER OF INDUSTRIAL VALVE EQUIPMENT, SPECIALIZING IN HIGH-QUALITY STRAINER FILTERS AND PIPELINE FILTRATION SYSTEMS DESIGNED FOR A WIDE RANGE OF INDUSTRIAL APPLICATIONS. OUR PRODUCTS ARE ENGINEERED TO REMOVE UNWANTED SOLID PARTICLES FROM PIPELINES, HELPING TO PROTECT CRITICAL EQUIPMENT SUCH AS PUMPS, VALVES, FLOW METERS, AND CONTROL SYSTEMS. WITH A STRONG COMMITMENT TO ENGINEERING EXCELLENCE, PRODUCT RELIABILITY, AND COMPLIANCE WITH INTERNATIONAL STANDARDS, **ABKO TEC** PROVIDES DEPENDABLE FILTRATION SOLUTIONS FOR DEMANDING INDUSTRIAL ENVIRONMENTS.

OUR STRAINER FILTERS ARE WIDELY USED IN INDUSTRIES INCLUDING OIL & GAS, PETROCHEMICAL, CHEMICAL PROCESSING, POWER GENERATION, WATER TREATMENT, MARINE, AND GENERAL INDUSTRIAL PLANTS. DESIGNED FOR DURABILITY AND EFFICIENT PERFORMANCE, OUR PRODUCTS HELP IMPROVE SYSTEM RELIABILITY, REDUCE MAINTENANCE COSTS, AND ENSURE SMOOTH OPERATION OF INDUSTRIAL PIPING SYSTEMS.

ABKO TEC OFFERS A COMPREHENSIVE RANGE OF BASKET STRAINER SOLUTIONS TO MEET VARIOUS OPERATIONAL REQUIREMENTS. OUR PRODUCT RANGE INCLUDES SEVERAL TYPES OF BASKET STRAINERS DESIGNED FOR DIFFERENT FLOW CONDITIONS AND MAINTENANCE PREFERENCES.

THROUGH CONTINUOUS PRODUCT DEVELOPMENT, STRICT QUALITY CONTROL, AND CUSTOMER-FOCUSED SERVICE, ABKO TEC IS COMMITTED TO DELIVERING RELIABLE INDUSTRIAL FILTRATION SOLUTIONS AND BUILDING LONG-TERM PARTNERSHIPS WITH CUSTOMERS WORLDWIDE.

ABKO TEC LIMITED PARTNERSHIP (HEAD OFFICE)



082 547 9989



saleslabkotec@gmail.com



www.strainer-filter.com



www.abkotec.com



@abkotec



082 547 9989



PRODUCTS "IWAKO" INDUSTRIAL STRAINER FILTERS

- STANDARD BASKET STRAINER
- MANUAL BRUSH CLEANING BASKET STRAINER
- AUTOMATIC BASKET STRAINER
- AUTOMATIC BACKWASH STRAINER
- DUPLEX BASKET STRAINER
- HYDROCYCLONE SAND SEPARATOR
- SCREEN FILTER ELEMENT
- CUSTOM FABRICATED STRAINER FILTER FOR SPECIALIZED APPLICATIONS

KEY FEATURES

- HIGH FILTRATION EFFICIENCY FOR PIPELINE PROTECTION
- ROBUST CONSTRUCTION FOR INDUSTRIAL APPLICATIONS
- LARGE DIRT HOLDING CAPACITY
- LOW PRESSURE DROP DESIGN
- EASY MAINTENANCE AND CLEANING
- FLEXIBLE INSTALLATION AND MATERIAL OPTIONS
- CONTINUOUS OPERATION AVAILABLE (DUPLEX / AUTOMATIC MODELS)
- CUSTOM FABRICATION AVAILABLE FOR SPECIAL PROJECTS

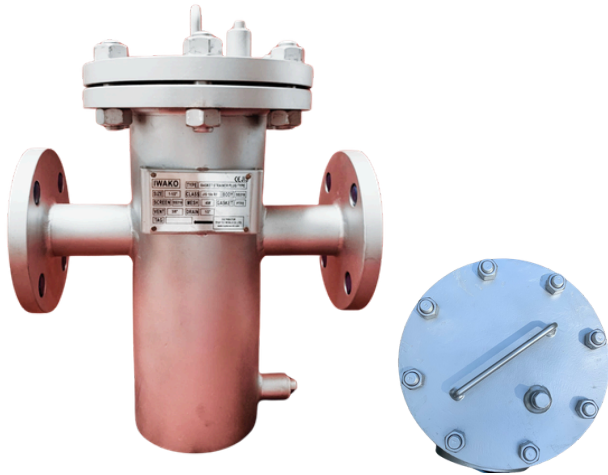
TYPICAL APPLICATIONS

THE STANDARD BASKET STRAINER IS WIDELY USED ACROSS VARIOUS INDUSTRIAL SECTORS WHERE PIPELINE PROTECTION IS REQUIRED:

- WATER TREATMENT SYSTEMS
- COOLING WATER CIRCULATION SYSTEMS
- CHEMICAL PROCESSING PLANTS
- OIL & GAS FACILITIES
- FOOD & BEVERAGE PROCESSING
- POWER GENERATION PLANTS
- CHILLER



“IWAKO” BASKET STRAINER TYPE STANDARD



“IWAKO” BASKET STRAINER STANDARD TYPE SPECIFICATIONS

BODY : CARBON STEEL / STAINLESS STEEL SUS304 ,304L,316,316L

FILTER ELEMENT : STAINLESS STEEL 304 ,304L,316,316L

PERFORATED PLATE OR MESH

GASKET : SEAL NBR / EPDM / PTFE / GRAPHITE

BOLTS & NUTS : CARBON STEEL / STAINLESS STEEL / GAL'V

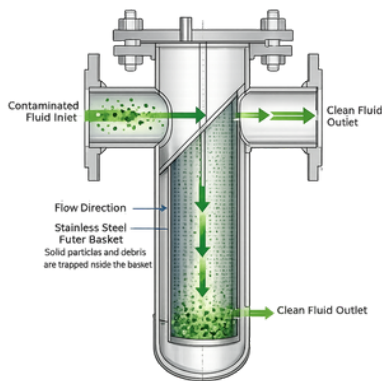
DRAIN VALVE : BRASS / STAINLESS STEEL

END CONNECTION : FLANGED , THREADED , WELDED

SIZE RANGE : DN50 - DN600 (2" - 24")

FILTRATION RATING 40 - 500 MICRON (CUSTOMIZABLE)

Working Principle of Standard Easket Strainer



Working Principle of Standard Basket Strainer

Contaminated fluid enters the strainer through the inlet and flows into the filter basket. Solid particles and debris are captured inside the basket while the filtered fluid passes through the screen and exits through the outlet. The accumulated contaminants

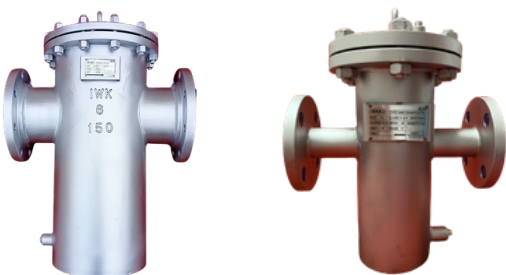
ADVANTAGES OF STANDARD BASKET STRAINER “IWAKO”

- EFFECTIVE EQUIPMENT PROTECTION
- HIGH DIRT HOLDING CAPACITY
- LOW PRESSURE DROP
- EASY MAINTENANCE
- ROBUST INDUSTRIAL DESIGN
- WIDE RANGE OF APPLICATIONS

BASKET STRAINER STANDARD TYPE WORKING PRINCIPLE

1. CONTAMINATED FLUID ENTERS THE STRAINER THROUGH THE INLET CONNECTION AND FLOWS INTO THE STRAINER BODY.
2. THE FLUID PASSES THROUGH THE FILTER BASKET, WHICH IS DESIGNED WITH A PERFORATED PLATE OR MESH SCREEN.
3. SOLID PARTICLES AND DEBRIS ARE CAPTURED INSIDE THE BASKET WHILE THE FILTERED FLUID CONTINUES TO FLOW THROUGH THE SCREEN.
4. CLEAN FLUID EXITS THE STRAINER THROUGH THE OUTLET CONNECTION AND CONTINUES THROUGH THE PIPELINE SYSTEM.
5. ACCUMULATED CONTAMINANTS REMAIN INSIDE THE BASKET AND CAN BE REMOVED BY OPENING THE COVER AND CLEANING THE BASKET DURING MAINTENANCE.

BASKET STRAINER CATALOGUE “IWAKO”



“IWAKO” BASKET STRAINER SWING EYE BOLT TYPE



“IWAKO” BASKET STRAINER SWING EYE BOLT TYPE SPECIFICATIONS

Body : Carbon Steel / Stainless Steel SUS304 ,304L,316,316L

Filter Element : Stainless Steel 304 ,304L,316,316L Perforated Plate or Mesh

Gasket : Seal NBR / EPDM / PTFE / Graphite

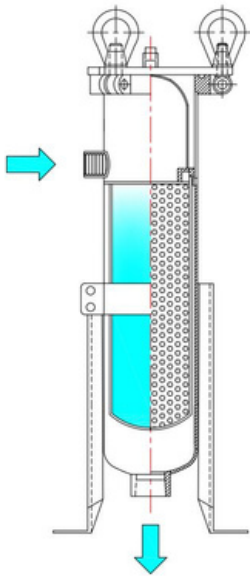
Bolts & Nuts : Carbon Steel / Stainless Steel / GAL'V

Drain Valve : Brass / Stainless Steel

End Connection : Flanged , Threaded , Welded

BASKET STRAINER SWING EYE BOLT TYPE WORKING PRINCIPLE

CONTAMINATED FLUID ENTERS THE STRAINER AND FLOWS DOWNWARD THROUGH THE FILTER BASKET. SOLID PARTICLES ARE RETAINED INSIDE THE BASKET WHILE CLEAN FLUID EXITS THROUGH THE BOTTOM OUTLET. THE SWING EYE BOLT COVER ENABLES QUICK OPENING FOR EASY MAINTENANCE AND BASKET REMOVAL.



ADVANTAGES OF BASKET STRAINER SWING EYE BOLT TYPE “IWAKO”

- QUICK OPENING SWING EYE BOLT COVER
- REDUCED MAINTENANCE TIME AND DOWNTIME
- EASY BASKET REMOVAL AND CLEANING
- RELIABLE SEALING UNDER PRESSURE
- SUITABLE FOR FREQUENT CLEANING APPLICATIONS
- DURABLE AND HEAVY-DUTY CONSTRUCTION

BASKET STRAINER SWING EYE BOLT CATALOGUE “IWAKO”



“IWAKO” BASKET STRAINER TYPE MANUAL BRUSH CLEANING

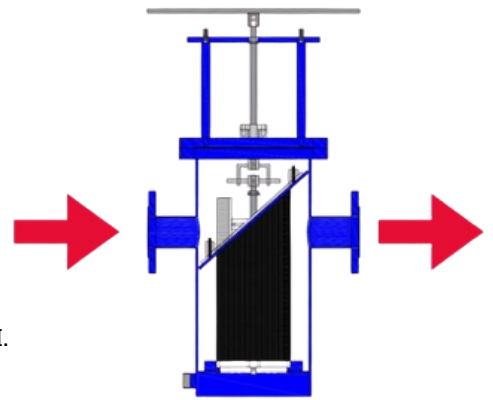


“IWAKO” BASKET STRAINER TYPE MANUAL BRUSH CLEANING SPECIFICATIONS

- Body : Carbon Steel / Stainless Steel SUS304 ,304L,316,316L
- Filter Element : Stainless Steel 304 ,304L,316,316L Perforated Plate or Mesh
- Gasket : Seal NBR / EPDM / PTFE / Graphite
- Bolts & Nuts : Carbon Steel / Stainless Steel / GAL'V
- Drain Valve : Brass / Stainless Steel
- End Connection : Flanged , Threaded , Welded

BASKET STRAINER TYPE MANUAL BRUSH CLEANING WORKING PRINCIPLE

CONTAMINATED FLUID ENTERS THE STRAINER AND FLOWS THROUGH THE FILTER BASKET, WHERE SOLID PARTICLES ARE RETAINED ON THE SCREEN SURFACE. A MANUALLY OPERATED BRUSH MECHANISM REMOVES ACCUMULATED DEBRIS FROM THE BASKET WITHOUT STOPPING THE SYSTEM. DISLODGED PARTICLES SETTLE AT THE BOTTOM AND CAN BE DISCHARGED THROUGH THE DRAIN, WHILE CLEAN FLUID EXITS THROUGH THE OUTLET.



ADVANTAGES OF BASKET STRAINER TYPE MANUAL BRUSH CLEANING “IWAKO”

- IN-LINE CLEANING WITHOUT SYSTEM SHUTDOWN
- REDUCED MAINTENANCE TIME AND DOWNTIME
- CONTINUOUS FILTRATION DURING CLEANING
- EXTENDED OPERATING CYCLE AND REDUCED CLOGGING
- SIMPLE AND USER-FRIENDLY MANUAL OPERATION
- COST-EFFECTIVE ALTERNATIVE TO AUTOMATIC SYSTEMS

“IWAKO” BASKET STRAINER TYPE MANUAL BRUSH CLEANING SPECIFICATIONS CATALOGUE



“IWAKO” DUPLEX STRAINER

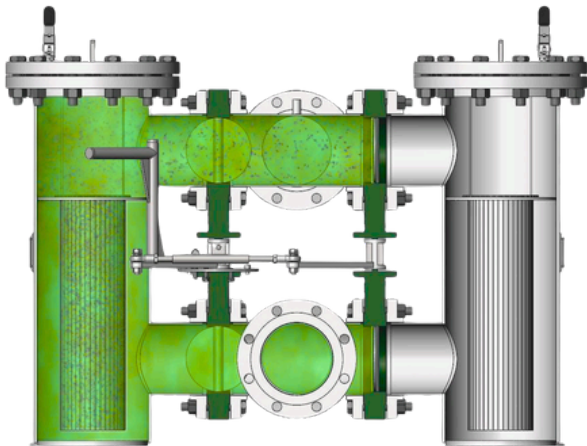


“IWAKO” DUPLEX STRAINER SPECIFICATIONS

- Body : Carbon Steel / Stainless Steel SUS304 ,304L,316,316L
- Filter Element : Stainless Steel 304 ,304L,316,316L Perforated Plate or Mesh
- Gasket : Seal NBR / EPDM / PTFE / Graphite
- Bolts & Nuts : Carbon Steel / Stainless Steel / GAL'V
- Drain Valve : Brass / Stainless Steel
- End Connection : Flanged , Threaded , Welded

ADVANTAGES OF DUPLEX STRAINER “IWAKO”

- EFFECTIVE EQUIPMENT PROTECTION
- HIGH DIRT HOLDING CAPACITY
- LOW PRESSURE DROP
- EASY MAINTENANCE
- ROBUST INDUSTRIAL DESIGN
- WIDE RANGE OF APPLICATIONS
- NON STOP FLOW



DUPLEX STRAINER WORKING PRINCIPLE

THE DUPLEX BASKET STRAINER CONSISTS OF TWO PARALLEL STRAINER CHAMBERS CONNECTED BY A CHANGEOVER VALVE SYSTEM. DURING OPERATION, FLUID FLOWS THROUGH ONE CHAMBER WHERE SOLID PARTICLES ARE RETAINED BY THE FILTER BASKET, WHILE THE OTHER CHAMBER REMAINS ON STANDBY.

WHEN THE ACTIVE BASKET BECOMES CLOGGED, THE FLOW CAN BE SWITCHED TO THE SECOND CHAMBER WITHOUT INTERRUPTING THE SYSTEM. THE CLOGGED BASKET CAN THEN BE CLEANED OR REPLACED WHILE THE SYSTEM CONTINUES OPERATING, ENSURING CONTINUOUS FILTRATION AND PROTECTION OF DOWNSTREAM EQUIPMENT.

DUPLEX STRAINER CATALOGUE “IWAKO”



“IWAKO” AUTOMATIC STRAINER



“IWAKO” AUTOMATIC STRAINER SPECIFICATIONS

- Body : Carbon Steel / Stainless Steel SUS304 ,304L,316,316L
- Filter Element : Stainless Steel 304 ,304L,316,316L Perforated Plate or Mesh
- Gasket : Seal NBR / EPDM / PTFE / Graphite
- Bolts & Nuts : Carbon Steel / Stainless Steel / GAL'V
- Drain Valve : Brass / Stainless Steel
- End Connection : Flanged , Threaded , Welded

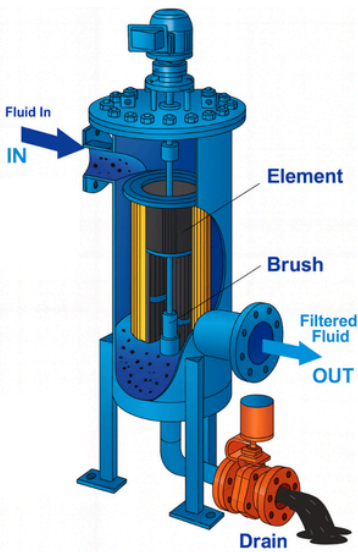
ADVANTAGES OF AUTOMATIC STRAINER “IWAKO”

- FULLY AUTOMATIC CLEANING WITHOUT MANUAL INTERVENTION
- CONTINUOUS OPERATION WITH NO SYSTEM SHUTDOWN
- REDUCED MAINTENANCE AND LABOR COSTS
- STABLE FILTRATION PERFORMANCE AND LOW PRESSURE DROP
- SUITABLE FOR HIGH-FLOW AND CONTINUOUS PROCESS SYSTEMS
- EFFICIENT REMOVAL AND DISCHARGE OF ACCUMULATED DEBRIS
- NON STOP FLOW RATE

AUTOMATIC STRAINER WORKING PRINCIPLE

CONTAMINATED FLUID ENTERS THE STRAINER AND FLOWS THROUGH THE FILTER BASKET, WHERE SOLID PARTICLES ARE RETAINED ON THE SCREEN SURFACE. AS DEBRIS ACCUMULATES, A DIFFERENTIAL PRESSURE OR TIMER-BASED CONTROL SYSTEM ACTIVATES THE AUTOMATIC CLEANING MECHANISM.

THE INTERNAL CLEANING DEVICE REMOVES CONTAMINANTS FROM THE BASKET SURFACE WHILE THE SYSTEM REMAINS IN OPERATION. DISLODGED PARTICLES ARE FLUSHED OUT THROUGH THE DRAIN OUTLET, ENSURING CONTINUOUS FILTRATION WITHOUT INTERRUPTING THE FLOW. CLEAN FLUID THEN EXITS THROUGH THE OUTLET, PROTECTING DOWNSTREAM EQUIPMENT.



AUTOMATIC STRAINER CATALOG “IWAKO”



FILTER ELEMENT FOR STRAINERS “IWAKO”



ADVANTAGES OF FILTER ELEMENT “IWAKO”

- HIGH RESISTANCE TO PRESSURE AND TEMPERATURE
- EXCELLENT CORROSION RESISTANCE (CHEMICALS, SEAWATER, OIL)
- REUSABLE DESIGN WITH LONG SERVICE LIFE
- CUSTOMIZABLE MESH SIZE FOR SPECIFIC FILTRATION NEEDS
- CUSTOM FABRICATION TO FIT ALL BASKET STRAINER HOUSINGS
- MAKE TO ORDER

FILTER ELEMENT FOR STRAINERS “IWAKO”

TYPE : TUBE , CONICAL,FLAT / DISC ,INCLINED BASKET,CYLINDRICAL / BASKET

MATERIAL: STAINLESS STEEL 304, 304L, 316, 316L

FILTER MEDIA: -PERFORATED PLATE (รูเจาะ)
-DOUBLE LAYER TYPE (แบบสองชั้น - PERFORATED + MESH)
-WIRE MESH (ตะแกรงลวดละเอียด)
-WEDGE WIRE (V-WIRE SLOT TYPE)
-OIL WINDING WIRE TUBE

CATALOG FILTER ELEMENT FOR STRAINERS “IWAKO”

