

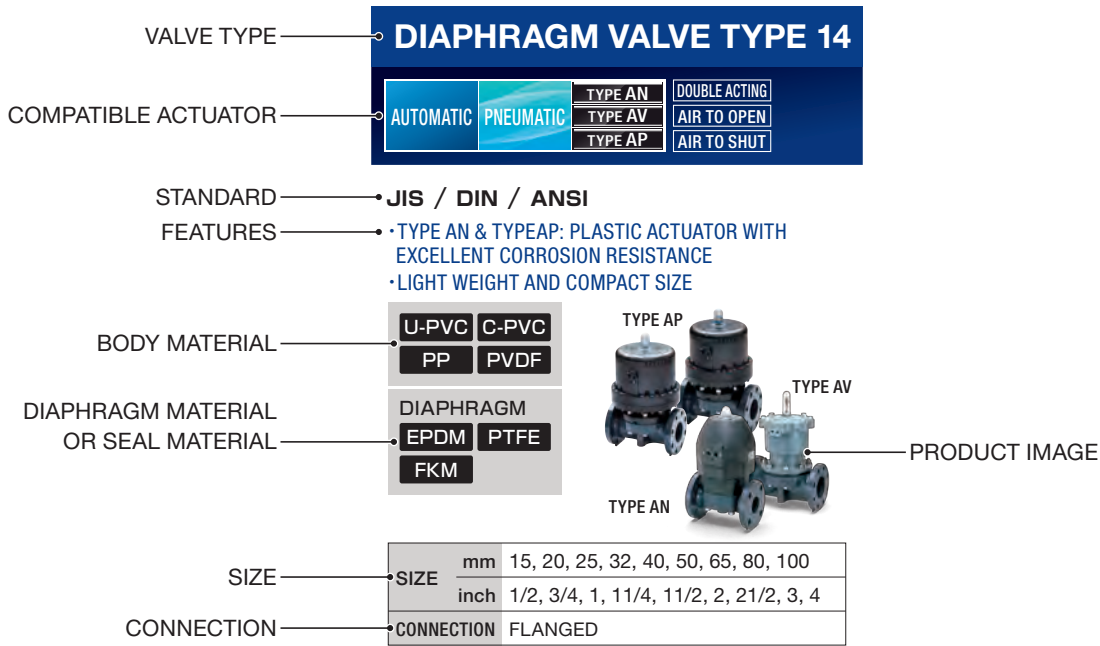


**ASAHI AV**

ASAHI YUKIZAI CORPORATION

**Lineup Guide Leaflet**

# How to understand this Digest



## Material Indication

We use abbreviations for indicating product materials. The meanings of the abbreviations are as follows:

### Body Material

Symbol	Overview
<b>U-PVC</b>	PVC is an abbreviation of Polyvinyl Chloride. The first letter "U" is an abbreviation of Unplasticized. Therefore, U-PVC refers to Unplasticized Polyvinyl Chloride.
<b>C-PVC</b>	The first letter "C" is an abbreviation of Chlorinated. Therefore, C-PVC refers to Chlorinated Polyvinyl Chloride (thermal-resistant hard polyvinyl chloride).
<b>HI-PVC</b>	The first "HI" is an abbreviation of High Impact. Therefore, HI-PVC refers to High Impact Resistance Unplasticized Polyvinyl Chloride.
<b>PP</b>	Abbreviation of Polypropylene.
<b>PVDF</b>	Abbreviation of Polyvinyliden Fluoride.
<b>PDCPD</b>	Abbreviation of Polydicyclo Pentadien.

### Diaphragm Material or Seal material

Symbol	Overview
<b>PTFE</b>	Abbreviation of Poly Tetra Fluoro Ethylene.
<b>EPDM</b>	Abbreviation of Ethylene Propylene Diene Rubber.
<b>FKM</b>	Abbreviation of Fluorocarbon Rubber.
<b>Viflon® F FKM-F</b>	Abbreviation of Fluorocarbon Rubber of Terpolymer. Viflon® is a registered trademark of ASAHI YUKIZAI CORPORATION and indicated to FKM-F or Viflon®F.
<b>Viflon® C FKM-C</b>	Abbreviation of Fluorocarbon Rubber of Terpolymer. Viflon® is a registered trademark of ASAHI YUKIZAI CORPORATION that is indicated to FKM-C or Viflon®C.
<b>SBR</b>	Abbreviation of Styrene Butadiene Rubber.
<b>NBR</b>	Abbreviation of Acrylonitorile Butadiene Rubber.
<b>IIR</b>	Abbreviation of Isobtylen Isopren Rubber.
<b>CSM</b>	Abbreviation of Chlorosulphonated Polyethylene.
<b>JIABLOCK IIR-C</b>	Abbreviation of Isobtylen Isopren Rubber for Sodium hypochlorite line.

## DIAPHRAGM VALVE TYPE 14

MANUAL

### JIS / DIN / ANSI

- QUICK DIAPHRAGM REPLACEMENT (BAYONET STRUCTURE)

U-PVC C-PVC  
PP PVDF

DIAPHRAGM  
EPDM PTFE  
FKM



SIZE	mm	15, 20, 25, 32, 40, 50, 65, 80, 100
	inch	1/2, 3/4, 1, 1 1/4, 1 1/2, 2, 2 1/2, 3, 4
CONNECTION	FLANGED	

AUTOMATIC PNEUMATIC

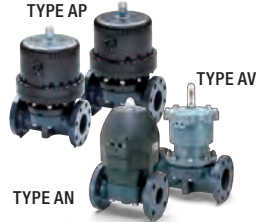
TYPE AN DOUBLE ACTING  
TYPE AV AIR TO OPEN  
TYPE AP AIR TO SHUT

### JIS / DIN / ANSI

- TYPE AN & TYPE AP: PLASTIC ACTUATOR WITH EXCELLENT CORROSION RESISTANCE
- LIGHT WEIGHT AND COMPACT SIZE

U-PVC C-PVC  
PP PVDF

DIAPHRAGM  
EPDM PTFE  
FKM



SIZE	mm	15, 20, 25, 32, 40, 50, 65, 80, 100
	inch	1/2, 3/4, 1, 1 1/4, 1 1/2, 2, 2 1/2, 3, 4
CONNECTION	FLANGED	

AUTOMATIC ELECTRIC

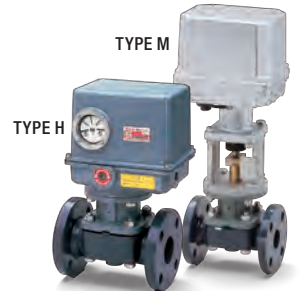
TYPE H Single-Phase 100V  
TYPE M Single-Phase 200V  
DC24V \* \* TYPE M only.

### JIS / DIN / ANSI

- TYPE M: HIGH ACCURACY CONTROL

U-PVC C-PVC  
PP PVDF

DIAPHRAGM  
EPDM PTFE  
FKM



SIZE	mm	15, 20, 25, 32, 40, 50, 65, 80, 100
	inch	1/2, 3/4, 1, 1 1/4, 1 1/2, 2, 2 1/2, 3, 4
CONNECTION	FLANGED	

## TRUE UNION DIAPHRAGM VALVE TYPE 14

MANUAL

### JIS / DIN / ANSI

- TRUE UNION TYPE ALLOWING REMOVAL FROM THE LINE

U-PVC C-PVC  
PP PVDF

DIAPHRAGM  
EPDM PTFE  
O-RING  
EPDM FKM



SIZE	mm	15, 20, 25, 32, 40, 50
	inch	1/2, 3/4, 1, 1 1/4, 1 1/2, 2
CONNECTION	SOCKET, THREADED, SPIGOT	

AUTOMATIC PNEUMATIC

TYPE AN DOUBLE ACTING  
AIR TO OPEN  
AIR TO SHUT

### JIS / DIN / ANSI

- PLASTIC ACTUATOR WITH EXCELLENT CORROSION RESISTANCE
- LIGHT WEIGHT AND COMPACT SIZE

U-PVC C-PVC  
PP PVDF

DIAPHRAGM  
EPDM PTFE  
O-RING  
EPDM FKM



SIZE	mm	15, 20, 25, 32, 40, 50
	inch	1/2, 3/4, 1, 1 1/4, 1 1/2, 2
CONNECTION	SOCKET, THREADED, SPIGOT	

AUTOMATIC ELECTRIC

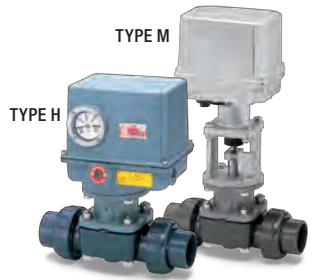
TYPE H Single-Phase 100V  
TYPE M Single-Phase 200V  
DC24V \* \* TYPE M only.

### JIS / DIN / ANSI

- TYPE M: HIGH ACCURACY CONTROL

U-PVC C-PVC  
PP PVDF

DIAPHRAGM  
EPDM PTFE  
O-RING  
EPDM FKM



SIZE	mm	15, 20, 25, 32, 40, 50
	inch	1/2, 3/4, 1, 1 1/4, 1 1/2, 2
CONNECTION	SOCKET, THREADED, SPIGOT	

## DIAPHRAGM VALVE TYPE 15

MANUAL

### JIS / DIN / ANSI

- MEDIUM SIZE DIAPHRAGM VALVE

U-PVC PP  
PVDF

DIAPHRAGM  
EPDM PTFE  
FKM



SIZE	mm	125, 150
	inch	5, 6
CONNECTION	FLANGED	

AUTOMATIC PNEUMATIC

TYPE AV DOUBLE ACTING  
AIR TO OPEN  
AIR TO SHUT

### JIS / DIN / ANSI

- NEAR-LINEAR FLOW CHARACTERISTICS

U-PVC PP  
PVDF

DIAPHRAGM  
EPDM PTFE  
FKM



SIZE	mm	125, 150
	inch	5, 6
CONNECTION	FLANGED	

AUTOMATIC ELECTRIC

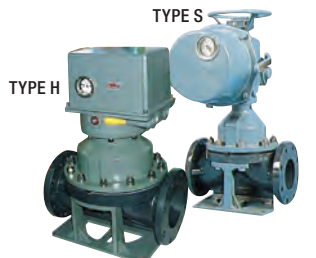
TYPE H Single-Phase 100V  
TYPE S Single-Phase 200V  
Three-Phase AC200V  
Three-Phase AC400V

### JIS / DIN / ANSI

- TYPE S: HIGH ACCURACY CONTROL

U-PVC PP  
PVDF

DIAPHRAGM  
EPDM PTFE  
FKM



SIZE	mm	125, 150
	inch	5, 6
CONNECTION	FLANGED	

## DIAPHRAGM VALVE TYPE 72

MANUAL

JIS / DIN / ANSI

- LARGE SIZE DIAPHRAGM VALVE

U-PVC	PP
PVDF	
DIAPHRAGM	
EPDM	PTFE
FKM	



SIZE	mm	200, 250
	inch	8, 10
CONNECTION	FLANGED	

AUTOMATIC PNEUMATIC TYPE AV

DOUBLE ACTING

JIS / DIN / ANSI

- NEAR-LINEAR FLOW CHARACTERISTICS

U-PVC	PP
PVDF	
DIAPHRAGM	
EPDM	PTFE
FKM	



SIZE	mm	200, 250
	inch	8, 10
CONNECTION	FLANGED	

AUTOMATIC ELECTRIC TYPE S

Three-Phase AC200V  
Three-Phase AC400V

JIS / DIN / ANSI

U-PVC	PP
PVDF	
DIAPHRAGM	
EPDM	PTFE
FKM	



SIZE	mm	200, 250
	inch	8, 10
CONNECTION	FLANGED	

## DIAPHRAGM VALVE (TYPE AI)

AUTOMATIC PNEUMATIC TYPE AI

DOUBLE ACTING  
AIR TO OPEN  
AIR TO SHUT

JIS / DIN / ANSI

- MAXIMUM WORKING PRESSURE: 1.0 MPa
- HIGH DURABILITY ALLOWING MORE THAN 500,000 TIMES OF OPENING/CLOSING

U-PVC	C-PVC
PP	PVDF
DIAPHRAGM	
EPDM	PTFE
FKM	



SIZE	mm	15, 20, 25, 32, 40, 50
	inch	1/2, 3/4, 1, 1 1/4, 1 1/2, 2
CONNECTION	FLANGED	

## TRUE UNION DIAPHRAGM VALVE (TYPE AI)

AUTOMATIC PNEUMATIC TYPE AI

DOUBLE ACTING  
AIR TO OPEN  
AIR TO SHUT

JIS / DIN / ANSI

- MAXIMUM WORKING PRESSURE: 1.0 MPa
- HIGH DURABILITY ALLOWING MORE THAN 500,000 TIMES OF OPENING/CLOSING

U-PVC	C-PVC
PP	PVDF
DIAPHRAGM	
EPDM	PTFE
O-RING	
EPDM	FKM



SIZE	mm	15, 20, 25, 32, 40, 50
	inch	1/2, 3/4, 1, 1 1/4, 1 1/2, 2
CONNECTION	SOCKET, THREADED, SPIGOT	

## DIAPHRAGM VALVE TYPE 16

AUTOMATIC PNEUMATIC TYPE AD

DOUBLE ACTING  
AIR TO OPEN

JIS / DIN / ANSI

- HIGH DURABILITY ALLOWING MORE THAN 1 MILLION TIMES OF OPENING/CLOSING (PARTS NOT REPLACEABLE)

U-PVC	
DIAPHRAGM	
EPDM	PTFE
O-RING	
EPDM	FKM



SIZE	mm	15, 20, 25, 40, 50
	inch	1/2, 3/4, 1, 1 1/2, 2
CONNECTION	FLANGED, SOCKET, THREADED	

## BALL VALVE TYPE 21, 21α

MANUAL

JIS / DIN / ANSI

- DOUBLE O-RING USED FOR THE STEM
- IMPROVED DURABILITY AND SEALING PERFORMANCE

U-PVC	C-PVC
PP	PVDF
O-RING	
EPDM	FKM



SIZE	mm	15, 20, 25, 32, 40, 50, 65, 80, 100
	inch	1/2, 3/4, 1, 1 1/4, 1 1/2, 2, 2 1/2, 3, 4
CONNECTION	FLANGED, SOCKET, THREADED, SPIGOT	

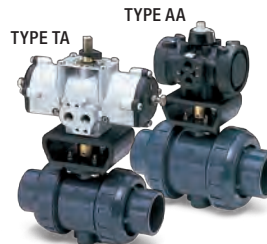
AUTOMATIC PNEUMATIC TYPE TA

DOUBLE ACTING  
AIR TO OPEN  
AIR TO SHUT

JIS / DIN / ANSI

- TYPE AA: PLASTIC ACTUATOR

U-PVC	C-PVC
PP	PVDF
O-RING	
EPDM	FKM



SIZE	mm	15, 20, 25, 32, 40, 50, 65, 80, 100
	inch	1/2, 3/4, 1, 1 1/4, 1 1/2, 2, 2 1/2, 3, 4
CONNECTION	FLANGED, SOCKET, THREADED, SPIGOT	

AUTOMATIC ELECTRIC TYPE T

Single-Phase 100V  
Single-Phase 200V

JIS / DIN / ANSI

U-PVC	C-PVC
PP	PVDF
O-RING	
EPDM	FKM



SIZE	mm	15, 20, 25, 32, 40, 50, 65, 80, 100
	inch	1/2, 3/4, 1, 1 1/4, 1 1/2, 2, 2 1/2, 3, 4
CONNECTION	FLANGED, SOCKET, THREADED, SPIGOT	

## LAB COCK

MANUAL

JIS / DIN / ANSI

• WIDE SELECTION FROM 16 TYPES

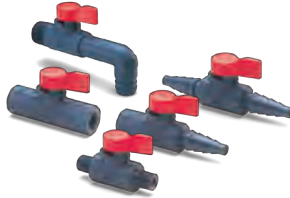
U-PVC

SEAT

PTFE EPDM

O-RING

EPDM FKM



SIZE	mm	—
	inch	1/4, 3/8, 1/2
CONNECTION	HOSE, MALE THREADED, FEMALE THREADED	

## COMPACT BALL VALVE TYPE27

MANUAL

JIS / DIN / ANSI

• LIGHT WEIGHT AND COMPACT SIZE WITH EASY OPERATION  
• IDEAL FOR INSTALLATION IN NARROW SPACES WITH SHORT FACE TO FACE DIMENSION

U-PVC C-PVC

SEAT

PTFE

O-RING

EPDM FKM



SIZE	mm	13, 15, 20, 25, 32, 40, 50
	inch	3/8, 1/2, 3/4, 1, 1 1/4, 1 1/2, 2
CONNECTION	SOCKET, THREADED	

## Picoball

AUTOMATIC

ELECTRIC

TYPE V

JIS

• ELECTRIC COMPACT ON-OFF VALVE  
• MOUNTED WITH PLASTIC COMPACT ACTUATOR OF EXCELLENT CORROSION RESISTANCE

U-PVC C-PVC

SEAT

PTFE

O-RING

EPDM FKM



SIZE	mm	6, 10, 13, 15
	inch	1/4, 3/8, 1/2
CONNECTION	HOSE, MALE THREADED, FEMALE THREADED	

## 3 WAY BALL VALVE TYPE 23

MANUAL

JIS / DIN / ANSI

• SWITCHING BETWEEN TWO FLOW CHANNELS AND STOPPING ARE AVAILABLE.

U-PVC C-PVC

PP PVDF

O-RING

EPDM FKM



SIZE	mm	15, 20, 25, 32, 40, 50, 65, 80, 100
	inch	1/2, 3/4, 1, 1 1/4, 1 1/2, 2, 2 1/2, 3, 4
CONNECTION	FLANGED, SOCKET, THREADED, SPIGOT	

AUTOMATIC PNEUMATIC TYPE TA

DOUBLE ACTING

AIR TO OPEN

AIR TO SHUT

JIS / DIN / ANSI

U-PVC C-PVC

PP PVDF

O-RING

EPDM FKM



SIZE	mm	15, 20, 25, 32, 40, 50, 65, 80, 100
	inch	1/2, 3/4, 1, 1 1/4, 1 1/2, 2, 2 1/2, 3, 4
CONNECTION	FLANGED, SOCKET, THREADED, SPIGOT	

AUTOMATIC ELECTRIC TYPE T

Single-Phase 100V

Single-Phase 200V

JIS / DIN / ANSI

U-PVC C-PVC

PP PVDF

O-RING

EPDM FKM



SIZE	mm	15, 20, 25, 32, 40, 50, 65, 80, 100
	inch	1/2, 3/4, 1, 1 1/4, 1 1/2, 2, 2 1/2, 3, 4
CONNECTION	FLANGED, SOCKET, THREADED, SPIGOT	

## 3 WAY BALL VALVE TYPE 23 H

MANUAL

JIS / DIN / ANSI

• HORIZONTAL 3 WAY BALL VALVE

PP

O-RING

EPDM FKM



SIZE	mm	25, 32, 40
	inch	1, 1 1/4, 1 1/2
CONNECTION	FLANGED, SOCKET, THREADED, SPIGOT	

## EMERGENCY (SHUT-OFF/RELEASE) VALVE

AUTOMATIC

ELECTRIC

TYPE E

JIS / DIN / ANSI

• AUTOMATICALLY CLOSES/OPENS BY SPRINGS IN CASE OF POWER FAILURE.

U-PVC C-PVC

PP PVDF

O-RING

EPDM FKM



SIZE	mm	15, 20, 25, 32, 40, 50, 65, 80, 100
	inch	1/2, 3/4, 1, 1 1/4, 1 1/2, 2, 2 1/2, 3, 4
CONNECTION	FLANGED, SOCKET, THREADED, SPIGOT	

**ASAHI AV**

## BUTTERFLY VALVE TYPE 57

MANUAL

JIS / DIN / ANSI

· EXCELLENT CORROSION RESISTANCE PLASTIC HANDLE, PLASTIC GEARBOX

U-PVC PP  
PVDF

SEAT  
EPDM FKM



SIZE	mm	40, 50, 65, 80, 100, 125, 150, 200, 250, 300, 350
	inch	1 1/2, 2, 2 1/2, 3, 4, 5, 6, 8, 10, 12, 14
CONNECTION	WAFER	

AUTOMATIC

PNEUMATIC

TYPE TA

DOUBLE ACTING  
AIR TO OPEN  
AIR TO SHUT

JIS / DIN / ANSI

U-PVC PP  
PVDF

SEAT  
EPDM FKM



SIZE	mm	40, 50, 65, 80, 100, 125, 150, 200, 250, 300, 350
	inch	1 1/2, 2, 2 1/2, 3, 4, 5, 6, 8, 10, 12, 14
CONNECTION	WAFER	

AUTOMATIC

ELECTRIC

TYPE T

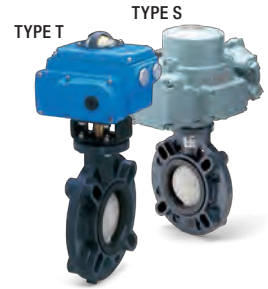
TYPE S

Single-Phase  
100V Single-Phase  
200V  
Three-Phase  
AC200V Three-Phase  
AC400V

JIS / DIN / ANSI

U-PVC PP  
PVDF

SEAT  
EPDM FKM



SIZE	mm	40, 50, 65, 80, 100, 125, 150, 200, 250, 300, 350
	inch	1 1/2, 2, 2 1/2, 3, 4, 5, 6, 8, 10, 12, 14
CONNECTION	WAFER	

## BUTTERFLY VALVE TYPE 56

MANUAL

JIS / DIN / ANSI

· MIDDLE SIZE BUTTERFLY VALVE

PP PVDF

SEAT  
EPDM FKM



SIZE	mm	400
	inch	16
CONNECTION	WAFER	

AUTOMATIC

PNEUMATIC

TYPE TA

DOUBLE ACTING  
AIR TO OPEN  
AIR TO SHUT

JIS / DIN / ANSI

PP PVDF

SEAT  
EPDM FKM



SIZE	mm	400
	inch	16
CONNECTION	WAFER	

AUTOMATIC

ELECTRIC

TYPE S

Three-Phase  
AC200V  
Three-Phase  
AC400V

JIS / DIN / ANSI

PP PVDF

SEAT  
EPDM FKM



SIZE	mm	400
	inch	16
CONNECTION	WAFER	

## BUTTERFLY VALVE TYPE 75

MANUAL

JIS / DIN / ANSI

· MIDDLE SIZE BUTTERFLY VALVE

PP PVDF

SEAT  
EPDM FKM



SIZE	mm	450, 500, 600
	inch	18, 20, 24
CONNECTION	WAFER	

AUTOMATIC

PNEUMATIC

TYPE TW

DOUBLE ACTING

JIS / DIN / ANSI

PP PVDF

SEAT  
EPDM FKM



SIZE	mm	450, 500, 600
	inch	18, 20, 24
CONNECTION	WAFER	

AUTOMATIC

ELECTRIC

TYPE S

Three-Phase  
AC200V  
Three-Phase  
AC400V

JIS / DIN / ANSI

PP PVDF

SEAT  
EPDM FKM



SIZE	mm	450, 500, 600
	inch	18, 20, 24
CONNECTION	WAFER	

## BUTTERFLY VALVE TYPE 56D, 75D

MANUAL

JIS / DIN / ANSI

- PRESSURE RESISTANCE IMPROVED BY USE OF PDCPD BODY

PDCPD

SEAT

EPDM FKM



SIZE	mm	400, 450, 500, 600
	inch	16, 18, 20, 24

CONNECTION	WAFER
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AUTOMATIC PNEUMATIC TYPE TW

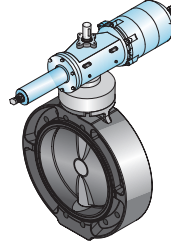
DOUBLE ACTING

JIS / DIN / ANSI

PDCPD

SEAT

EPDM FKM



SIZE	mm	400, 450, 500, 600
	inch	16, 18, 20, 24

CONNECTION	WAFER
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AUTOMATIC ELECTRIC TYPE S

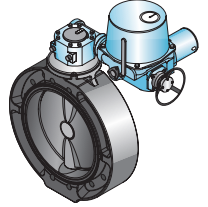
Three-Phase AC200V  
Three-Phase AC400V

JIS / DIN / ANSI

PDCPD

SEAT

EPDM FKM



SIZE	mm	400, 450, 500, 600
	inch	16, 18, 20, 24

CONNECTION	WAFER
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## BUTTERFLY VALVE TYPE 55

MANUAL

JIS / DIN / ANSI

- IDEAL FOR CORROSIVE CHEMICAL LINE

FCD-S (EPOXY POWDER COATING)

SEAT

PTFE



SIZE	mm	50, 80, 100, 125, 150, 200, 250
	inch	2, 3, 4, 5, 6, 8, 10

CONNECTION	WAFER
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AUTOMATIC PNEUMATIC TYPE TA  
ELECTRIC TYPE T  
TYPE S

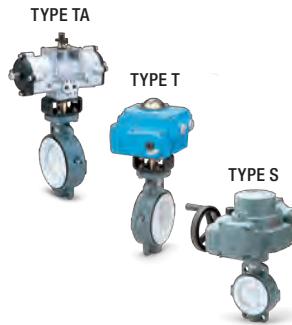
DOUBLE ACTING	AIR TO OPEN	AIR TO SHUT
Single-Phase AC100V	Single-Phase AC200V	
Three-Phase AC200V	Three-Phase AC400V	

JIS / DIN / ANSI

FCD-S (EPOXY POWDER COATING)

SEAT

PTFE



SIZE	mm	50, 80, 100, 125, 150, 200, 250
	inch	2, 3, 4, 5, 6, 8, 10

CONNECTION	WAFER
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## BUTTERFLY VALVE TYPE 55IS

MANUAL

JIS / DIN / ANSI

- IDEAL FOR CORROSIVE CHEMICAL LINE
- ISO-COMPLIANT SHORT FACE TO FACE DIMENSION

FCD-S (EPOXY POWDER COATING)

SEAT

PTFE



SIZE	mm	50, 65, 80, 100, 125, 150, 200, 250, 300, 350, 400
	inch	2, 2 1/2, 3, 4, 5, 6, 8, 10, 12, 14, 16

CONNECTION	WAFER
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## BUTTERFLY VALVE TYPE 55IS

AUTOMATIC PNEUMATIC TYPE TA  
ELECTRIC TYPE T  
TYPE S

DOUBLE ACTING	AIR TO OPEN	AIR TO SHUT
Single-Phase AC100V	Single-Phase AC200V	
Three-Phase AC200V	Three-Phase AC400V	

JIS / DIN / ANSI

- IDEAL FOR CORROSIVE CHEMICAL LINE
- ISO-COMPLIANT SHORT FACE TO FACE DIMENSION

FCD-S (EPOXY POWDER COATING)

SEAT

PTFE



SIZE	mm	50, 65, 80, 100, 125, 150, 200, 250, 300, 350, 400
	inch	2, 2 1/2, 3, 4, 5, 6, 8, 10, 12, 14, 16

CONNECTION	WAFER
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## LUG BUTTERFLY VALVE TYPE 57L

MANUAL

JIS / DIN

- SINGLE PIPING AVAILABLE BY THE USE OF LUG STRUCTURE (DIRECTION OF FLOW FIXED)

PDCPD

SEAT

PTFE FKM

NBR



SIZE	mm	80, 100, 125, 150, 200, 250
	inch	3, 4, 5, 6, 8, 10

CONNECTION	WAFER
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## LUG BUTTERFLY VALVE TYPE 57TL

MANUAL

ANSI

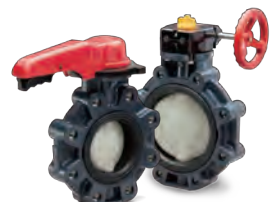
- SINGLE PIPING AVAILABLE BY THE USE OF LUG STRUCTURE (DIRECTION OF FLOW NOT FIXED)

U-PVC

SEAT

EPDM FKM

NBR



SIZE	mm	80, 100, 150, 200, 250, 300
	inch	3, 4, 5, 6, 8, 10, 12

CONNECTION	WAFER
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## PDCPD LARGE SIZE BUTTERFLY VALVE

MANUAL

JIS / DIN / ANSI

• PDCPD PLASTIC BODY WITH EXCELLENT CORROSION RESISTANCE

PDCPD

SEAT  
EPDM



SIZE	mm	700, 800, 900, 1000, 1100, 1200
	inch	28, 32, 36, 40, 44, 48

CONNECTION WAFER

AUTOMATIC

ELECTRIC

TYPE S

Three-Phase  
AC200V  
Three-Phase  
AC400V

JIS / DIN / ANSI

PDCPD

SEAT  
EPDM



SIZE	mm	700, 800, 900, 1000, 1100, 1200
	inch	28, 32, 36, 40, 44, 48

CONNECTION WAFER

## BUTTERFLY VALVE TYPE58

MANUAL

JIS / DIN / ANSI

• ISO SHORT FACE TO FACE DIMENSION (ISO5752)  
• ASSEMBLED WITH PP OR PVDF DISC

PDCPD

SEAT  
EPDM FKM  
NBR



SIZE	mm	700
	inch	28

CONNECTION WAFER

## ROTARY DAMPER

MANUAL

JIS / DIN / ANSI

• AIR VOLUME CONTROL  
(COMPLETE SHUT UNAVAILABLE)

U-PVC PP  
PVDF

SEAL  
EPDM FKM  
PTFE



SIZE	mm	40, 50, 65, 80, 100, 125, 150, 200, 250, 300, 350, 400, 450, 500, 600
	inch	1 1/2, 2, 2 1/2, 3, 4, 5, 6, 8, 10, 12, 14, 16, 18, 20, 24

CONNECTION WAFER

AUTOMATIC

PNEUMATIC  
ELECTRIC

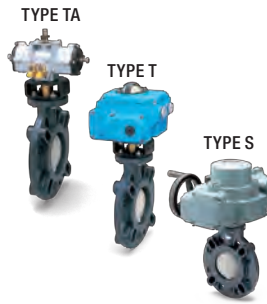
TYPE TA  
TYPE T  
TYPE S

DOUBLE ACTING  
AIR TO OPEN  
AIR TO SHUT  
Single-Phase AC100V  
Single-Phase AC200V  
Three-Phase AC200V  
Three-Phase AC400V

JIS / DIN / ANSI

U-PVC PP  
PVDF

SEAL  
EPDM FKM  
PTFE



SIZE	mm	40, 50, 65, 80, 100, 125, 150, 200, 250, 300, 350, 400, 500, 600
	inch	1 1/2, 2, 2 1/2, 3, 4, 5, 6, 8, 10, 12, 14, 16, 18, 20, 24

CONNECTION WAFER

## EMERGENCY (SHUT-OFF/RELEASE) VALVE

AUTOMATIC

ELECTRIC

TYPE E

JIS / DIN / ANSI

• AUTOMATICALLY CLOSES/OPENS BY SPRINGS IN CASE OF POWER FAILURE.

U-PVC PP  
PVDF

SEAL  
EPDM FKM



SIZE	mm	40, 50, 65, 80, 100, 125, 150, 200, 250
	inch	1 1/2, 2, 2 1/2, 3, 4, 5, 6, 8, 10

CONNECTION WAFER

**ASAHI**

## CONTROL VALVE

AUTOMATIC

PNEUMATIC

TYPE AV

DOUBLE ACTING  
AIR TO OPEN

JIS / DIN / ANSI

• HIGH ACCURACY CONTROL

U-PVC PVDF

SEAT  
EPDM FKM-F  
FKM-C



SIZE	mm	15, 25, 50, 80, 100
	inch	1/2, 1, 2, 3, 4

CONNECTION FLANGED

AUTOMATIC

ELECTRIC

TYPE M

Single-Phase 100V  
Single-Phase 200V  
DC24V

JIS / ANSI

• HIGH ACCURACY CONTROL

U-PVC PVDF

SEAT  
EPDM FKM-F  
FKM-C



SIZE	mm	15, 25, 50, 80, 100
	inch	1/2, 1, 2, 3, 4

CONNECTION FLANGED



## SWING CHECK VALVE

MANUAL

JIS / DIN / ANSI

• ARM-TYPE CHECK VALVE WITH LOW FLUID RESISTANCE

HI-PVC	PP
PVDF	
SEAT	
EPDM	FKM
PTFE	PFA



SIZE	mm	15, 20, 25, 32, 40, 50, 65, 80, 100, 125, 150, 200
	inch	1/2, 3/4, 1, 1 1/4, 1 1/2, 2, 2 1/2, 3, 4, 5, 6, 8
CONNECTION	FLANGED	

## WAFER CHECK VALVE

MANUAL

JIS / DIN / ANSI

• CORROSION RESISTANCE IMPROVED BY COATED SPRING AND ALL-PLASTIC WETTED PARTS

U-PVC	
O-RING	
EPDM	FKM



SIZE	mm	80, 100, 125, 150, 200, 250, 300
	inch	3, 4, 5, 6, 8, 10, 12
CONNECTION	WAFER	

## BALL CHECK VALVE

MANUAL

JIS / DIN / ANSI

• FLOW CHANNEL STRUCTURE WITH LOW LIQUID RESISTANCE

U-PVC	C-PVC
PP	PVDF
SEAT	
EPDM	FKM



SIZE	mm	15, 20, 25, 40, 50, 80, 100
	inch	1/2, 3/4, 1, 1 1/2, 2, 3, 4
CONNECTION	FLANGED, SOCKET, THREADED	

## TRUE UNION BALL CHECK VALVE

MANUAL

DIN / ANSI

• REMOVABLE WITHOUT DISCONNECTING THE PIPES BY LOOSENING THE UNIONS ON BOTH SIDES

U-PVC	C-PVC
PP	PVDF
SEAT	
EPDM	FKM



SIZE	mm	15, 20, 25, 40, 50
	inch	1/2, 3/4, 1, 1 1/2, 2
CONNECTION	FLANGED, SOCKET, THREADED, SPIGOT	

## BALL FOOT VALVE

MANUAL

JIS / DIN / ANSI

• FLOW CHANNEL STRUCTURE WITH LOW LIQUID RESISTANCE

U-PVC	C-PVC
PP	PVDF
SEAT	
EPDM	FKM



SIZE	mm	15, 20, 25, 40, 50, 80, 100
	inch	1/2, 3/4, 1, 1 1/2, 2, 3, 4
CONNECTION	FLANGED, SOCKET, THREADED	

## STOP VALVE

MANUAL

JIS / DIN / ANSI

• FLOW ADJUSTMENT VALVE WITH EXCELLENT CORROSION RESISTANCE

U-PVC	PP
PACKING	
EPDM	PTFE



SIZE	mm	15, 20, 25, 32, 40, 50, 65, 80, 100
	inch	1/2, 3/4, 1, 1 1/4, 1 1/2, 2, 2 1/2, 3, 4
CONNECTION	FLANGED, SOCKET, THREADED	

## CONSTANT FLOW VALVE

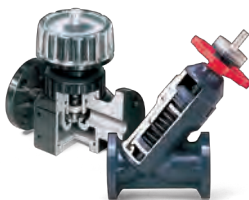
MANUAL

JIS / DIN / ANSI

• HIGH RANGEABILITY

U-PVC

SEAT  
EPDM



SIZE	mm	15, 20, 25, 50, 80, 100
	inch	1/2, 3/4, 1, 2, 3, 4
CONNECTION	FLANGED	

## NEEDLE VALVE

MANUAL

JIS / DIN / ANSI

• ALLOWS FOR ACCURATE FLOW CONTROL BY THE USE OF SPECIALLY-SHAPED PLUG.

U-PVC

SEAT  
EPDM



SIZE	mm	15, 20, 25
	inch	1/2, 3/4, 1
CONNECTION	FLANGED	

## GAUGE VALVE

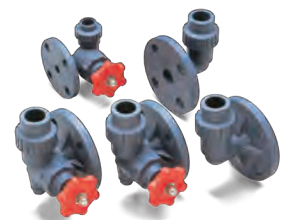
MANUAL

JIS / DIN / ANSI

• EQUIPPED WITH DRAIN PLUG USEFUL FOR MAINTENANCE (ALLOWS EXTRACTION OF THE SAMPLE SOLUTION)

U-PVC
 PP |

O-RING  
EPDM
 PTFE |



SIZE	mm	20, 25
	inch	3/4, 1
CONNECTION	FLANGED	

## SELF CONTROL VALVE PRESSURE REDUCING TYPE

MANUAL

JIS

· MAINTAINS SECONDARY PRESSURE AT A CONSTANT LEVEL.

U-PVC

DIAPHRAGM  
EPDM PTFE



SIZE	mm	15, 20, 25, 32, 40, 50
	inch	1/2, 3/4, 1, 1 1/4, 1 1/2, 2
CONNECTION	FLANGED, SOCKET, THREADED	

## SELF CONTROL VALVE PRESSURE RELIEF TYPE

MANUAL

JIS

· PREVENTS OVERPRESSURE.

U-PVC

DIAPHRAGM  
EPDM PTFE



SIZE	mm	15, 20, 25, 32, 40, 50
	inch	1/2, 3/4, 1, 1 1/4, 1 1/2, 2
CONNECTION	FLANGED, SOCKET, THREADED	

## SELF CONTROL VALVE PRESSURE RETAINING TYPE

MANUAL

JIS

· MAINTAINS PRIMARY PRESSURE AT A CONSTANT LEVEL.

U-PVC

DIAPHRAGM  
EPDM PTFE



SIZE	mm	15, 20, 25, 32, 40, 50
	inch	1/2, 3/4, 1, 1 1/4, 1 1/2, 2
CONNECTION	FLANGED, SOCKET, THREADED	

## SEDIMENT STRAINER (TYPE Y)

MANUAL

JIS / DIN / ANSI

· MAINTENANCE-FRIENDLY TYPE Y STRAINER

U-PVC

O-RING  
EPDM FKM



SIZE	mm	15, 20, 25, 32, 40, 50, 65, 80, 100
	inch	1/2, 3/4, 1, 1 1/4, 1 1/2, 2, 2 1/2, 3, 4
CONNECTION	FLANGED, SOCKET, THREADED	

## GATE VALVE STANDARD TYPE (TYPE P)

MANUAL

INSIDE SCREW: CAP, ROUND HANDLE TYPE

JIS / DIN / ANSI

· MADE OF HIGH-IMPACT POLYVINYL CHLORIDE (HI-PVC)

HI-PVC

O-RING  
EPDM



SIZE	mm	32, 40, 50, 65, 75(80), 100, 125, 150, 200, 250, 300, 350
	inch	1 1/4, 1 1/2, 2, 2 1/2, 3, 4, 5, 6, 8, 10, 12, 14
CONNECTION	FLANGED, THREADED	

## GATE VALVE SOFT SEAL TYPE (TYPE S)

MANUAL

SOFT SEAL VALVE TYPE 66  
INSIDE SCREW: CAP, ROUND HANDLE TYPE  
OUTSIDE SCREW: ROUND HANDLE TYPE

JIS / DIN / ANSI

· MADE OF HIGH-IMPACT POLYVINYL CHLORIDE (HI-PVC)

HI-PVC

SEAT  
SBR NBR  
O-RING  
EPDM



SIZE	mm	32, 40, 50, 65, 75(80), 100, 125, 150, 200, 250
	inch	1 1/4, 1 1/2, 2, 2 1/2, 3, 4, 5, 6, 8, 10
CONNECTION	FLANGED, THREADED	

## AIR RELEASE VALVE, ISOLATING VALVE APPLICABLE FOR SHALLOW LAYER BURIAL <MADE OF PDCPD>

MANUAL

JIS

· EXCELLENT CUTOFF PERFORMANCE AT LOW PRESSURE (4.9 kpa)

PDCPD

SEAT  
EPDM SBR



SIZE	mm	25, 75, 100, 150, 200
	inch	1, 3, 4, 6, 8
CONNECTION	FLANGED, THREADED	

## AUTOMATIC WATER FEEDING VALVE

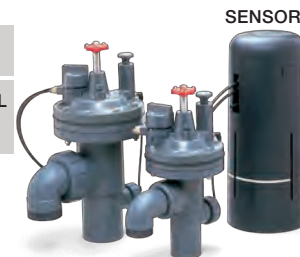
MANUAL

JIS

· SAVES IRRIGATION WATER.  
· REDUCES WATER CONTROL TIME.

HI-PVC

SENSOR MATERIAL  
ABS



SIZE	mm	50, 80
	inch	2, 3
CONNECTION	FLANGED, SOCKET, THREADED	

## ALFALFA VALVE TYPE 82

MANUAL

JIS

· PREVENTS WATER SCATTERING.

U-PVC

SEAT  
EPDM



SIZE	mm	50, 80, 100
	inch	2, 3, 4
CONNECTION	FLANGED, SOCKET	

## ROTARY ANGLE VALVE

MANUAL

JIS

• USES A MACHINO, ELBOW OR HOSE SOCKET TYPE RECEPTACLE.

U-PVC

SEAT  
EPDM



SIZE	mm	50, 80
	inch	2, 3
CONNECTION	FLANGED, SOCKET, THREADED	

## ANGLE BUTTERFLY VALVE

MANUAL

JIS

• WATER FEEDING RATE APPROX. 1.5 TIMES TO THE CONVENTIONAL ANGLE VALVE

PDCPD U-PVC

HI-PVC

SEAT  
EPDM



SIZE	mm	80, 100
	inch	3, 4
CONNECTION	FLANGED	

## FLOW METER

JIS



ULTRASONIC-VOLTEX FLOW METER ASUSV SERIES  
INPELLA FLOW METER ASSPX SERIES  
INSERTION ELECTROMAGNETIC FLOW METER ASEX80 SERIES  
ULTRASONIC FLOW METER DOPPLER, TIME DIFFERENCE

## PVC PIPE/FITTINGS

GENERAL PIPES, AGRICULTURE, WATER SUPPLY, PERFORATED PIPES

JIS / JWVA / JPPFA / JSWAS

• MADE OF VINYL CHLORIDE WITH EXCELLENT CORROSION RESISTANCE

U-PVC HI-PVC



SIZE	mm	13 - 500
	inch	1/2 - 20

## SUPER PIPE (C-PVC)

HEAT-RESISTANT PIPE

JIS

• MADE OF THERMAL-RESISTANT VINYL CHLORIDE HAVING EXCELLENT RESISTANCE TO CORROSION AND HIGH TEMPERATURES

C-PVC



SIZE	mm	13 - 200
	inch	1/2 - 8

## CHEMICAL PIPE

• BETTER CHEMICAL RESISTANCE THAN REGULAR PVC PIPES ESPECIALLY HIGH PERMEATION-RESISTANT FOR HCL AND HF FLUID

U-PVC



SIZE	mm	16 - 300
	inch	1/2 - 12

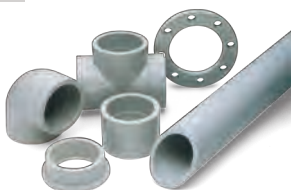
## PP PIPE/FITTINGS

POLYPROPYLENE (PP) PIPE MATERIAL

DIN

• ENVIRONMENT-FRIENDLY CLEAN MATERIAL (GENERATES NO DIOXIN WHEN BURNED), WITH EXCELLENT CORROSION- AND HEAT-RESISTANCE

PP



SIZE	mm	15 - 200
	inch	1/2 - 8

## AV PIPE/FITTINGS

COMPOSITE PIPE INTEGRATED AND REINFORCED WITH FRP

JIS / DIN

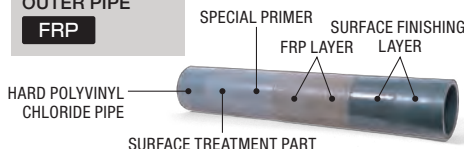
• APPLICABLE FOR HIGH TEMPERATURE AND HIGH PRESSURE CONDITIONS BY REINFORCING VINYL CHLORIDE PIPE OR POLYPROPYLENE PIPE WITH FRP

INTERNAL CORROSION-RESISTANT LAYER

U-PVC PP

OUTER PIPE

FRP



SIZE	mm	13 - 600
	inch	1/2 - 24

## DOUBLE CONTAINED PIPE/FITTINGS

CHEMICAL FLUID SCATTERING PREVENTION PIPE (PATENT NO. 4817953)

JIS

• DETECTS LEAKAGE POINT AND PREVENTS FLUID FROM SCATTERING TO OUTSIDE.

INNER PIPE

U-PVC HI-PVC

ULTRAPURE PVC

OUTER PIPE

U-PVC

TRANSPARENT PVC



SIZE	mm	(INNER PIPE x OUTER PIPE) 16x65 - 150x250
	inch	(INNER PIPE x OUTER PIPE) 1/2x2 1/2 - 6x10

## HIGH PURITY SERIES

VALVE, PIPE, JOINT FOR PURE WATER

### JIS / DIN / ANSI

• VARIOUS PIPE MATERIALS APPLICABLE FOR ULTRAPURE WATER LINES FOR WHICH HIGH CLEANLINESS IS REQUIRED

VARIOUS ULTRAPURE-TYPE VALVES, PIPES, JOINTS  
SPECIALLY FORMULATED U-PVC

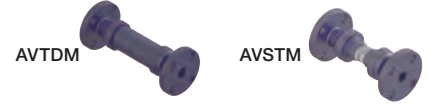


SIZE	mm	13 - 300
	inch	1/2 - 12

## INLINE MIXER

TIME DIFFERENCE TYPE MIXER(AVTDM),  
SLIT TYPE MIXER(AVSTM)

REDUCES UNEVEN MIXTURE OF CONCENTRATION  
EFFICIENT STATIC MIXER IN THE PIPING LINE



TIME DIFFERENCE TYPE MIXER (AVTDM)

SIZE	mm	15, 20, 25, 40, 50, 65, 80, 100
	inch	1/2, 3/4, 1, 1 1/2, 2, 2 1/2, 3, 4
CONNECTION	FLANGED, SOCKET, THREADED	

SLIT TYPE MIXER (AVSTM)

SIZE	mm	15, 20, 25, 40, 50, 65, 80, 100, 125, 150, 200
	inch	1/2, 3/4, 1, 1 1/2, 2, 2 1/2, 3, 4, 5, 6, 8
CONNECTION	TRUE UNION*, BODY-FLANGED, BODY-INJECTION	

**Mixworx**® \*TRUE UNION AVAILABLE UP TO SIZE OF 100MM

## Dymatrix

HIGH-PERFORMANCE THERMOPLASTIC VALVES

Dymatrix PRODUCTS ARE IDEALLY SUITED FOR SEMICONDUCTOR AND FLAT PANEL DISPLAY PROCESS NEEDS

- REALIZES ACCURATE FLOW CONTROL AND DURABILITY FOR ULTRA-PURE WATER, CORROSIVE FLUID AND SLURRY APPLICATIONS.
- WIDE SELECTION FROM VARIOUS VALVES, DEPENDING ON THE APPLICATIONS



## Falconics

HIGH-ACCURACY FLOW CONTROLLER

THESE FLOW CONTROL SYSTEMS BOAST THEIR STRUCTURE IDEAL FOR THE CMP PROCESS AND A HIGH LEVEL OF DURABILITY

- ULTRASONIC FLOW METERS AND MOTOR-DRIVEN VALVE INTEGRATED
- HIGH PRECISION FLOW CONTROL SYSTEMS



AVFCS2  
COMPACT SLURRY FLOW  
CONTROLLER WITH A STRAIGHT  
PASSAGE STRUCTURE



AVFCN  
COMPACT CHEMICAL FLOW  
CONTROLLER INTEGRATED WITH  
STRAIGHT ULTRASONIC FLOW METER

**FALCONICS**™

## EJECTOR

SWIRL-FLOW TYPE EJECTOR(AVEJT),  
REGULAR TYPE EJECTOR (AVEJH)

EXCELLENT STIRRING EFFECT  
SELF-CONTAINED MIXER WITH LESS AFFECTED BY BACK-PRESSURE



SIZE	mm	15, 20, 25, 40, 50
	inch	1/2, 3/4, 1, 1 1/2, 2
CONNECTION	FLANGED, SOCKET, THREADED	

**Mixworx**®

## MOLDED PARTS, SECONDARY MATERIALS

BOLT & NUT, SADDLE, AV GAUGE FLANGE,  
DIAPHRAGM MANOMETER



## JOINTS

MULTI-JOINT, PREFAB JOINT, EXPANSION JOINT,  
RR JOINT, IAM LOCK, BELLMOUTH



## AV ADHESIVE, AV LUBRICANT

VARIOUS ADHESIVES FOR GENERAL PIPE,  
ULTRAPURE, HI, SUPER PIPE

• WIDE SELECTION OF ADHESIVES, DEPENDING ON THE TYPE OF PIPE OR JOINT



# ENGINEERING

## PIPE DESIGN AND CONSTRUCTION

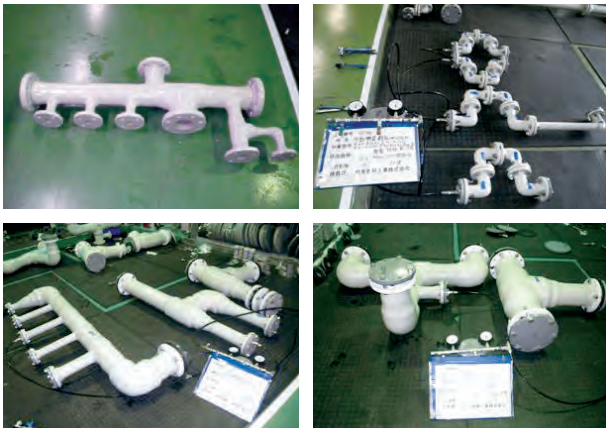
We engage in design and construction of various facilities (semiconductor, ironmaking, chemical plant, aquarium, etc.) with our in-house products (valves, pipes, etc.)



### FABRICATED PIPING PRODUCT

We can provide our specially fabricated products for difficult construction on site. Ex.Header pipe.  
Use our services for product assurance, accuracy improvement and cost reduction.

FABRICATED PP PIPE



FABRICATED AV PIPE



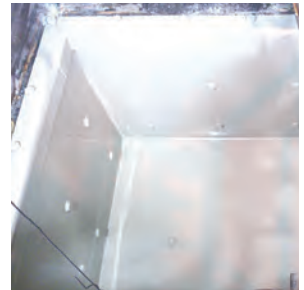
### PP TOWER/TANK, PLASTICS PROCESSED PRODUCT

We can provide design, manufacturing and installation of PP (poly propylene) Tanks and other various thermo plastic products on site.  
Design and production according to customer's requests are available.

PP TANK



PIT REGENERATION (PP SEAT LINING)



BUCKET STRAINER



FABRICATED DUMPER



# Resistance to major chemicals

More detailed chemical resistance sheets can be downloaded from our website.



The list below shows the evaluation results of AV product materials in our original evaluation method based on immersion tests, accumulated field experiences and literature. It does not intend to guarantee the quality of AV products. In actual use, the effects on the materials vary depending on the use conditions by the customer (pressure, temperature, stress, time, slurry, vibration, environment, etc.) It is recommended to perform demonstration tests if there is any doubt.

Chemicals	Salt															Hydrochloric acid <chem>HCl</chem>																							
	Calcium chloride <chem>CaCl2</chem>					Sodium chloride <chem>NaCl</chem>					Aluminum sulfate <chem>Al2(SO4)3</chem>											Ferrous sulfate <chem>FeSO4</chem>																	
	Saturation*1						Saturation*1						Saturation*1						25																				
Temp.	20	40	60	80	100	120	20	40	60	80	100	120	20	40	60	80	100	120	20	40	60	80	100	120	20	40	60	80	100	120									
U-PVC	○	○	○				○	○	○				○	○	○				○	○	○				○	○	○				○	○	○						
C-PVC	○	○	○	○			○	○	○	○			○	○	○	○			○	○	○	○			○	○	○	○			○	○	○	○					
PP	○	○	○	○			○	○	○	○			○	○	○	○			○	○	○	○			○	○	○	○			○	○	○	○					
PVDF	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○			
PTFE	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○			
FKM	○	○	○	○	○		○	○	○	○	○		○	○	○	○		○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	△				
EPDM	○	○	○	○			○	○	○	○			○	○	○			○	○	○			○	○	○			○	○	○	○	×		○	○	○	×		
FKM-F	○	○	○	○	○		○	○	○	○	○		○	○	○	○		○	○	○	○		○	○	○			○	○	○	○	○		○	○	○	○	○	
FKM-C	○	○	○	○	○		○	○	○	○			○	○	○	○		○	○	○			○	○	○			○	○	○	○	○		○	○	○	○	△	

Chemicals	Inorganic acid												Organic acid																										
	Sulfuric acid <chem>H2SO4</chem>						Phosphoric acid <chem>H3PO4</chem>						Acetic acid <chem>CH3COOH</chem>																										
	50						80						85						10						50														
Temp.	20	40	60	80	100	120	20	40	60	80	100	120	20	40	60	80	100	120	20	40	60	80	100	120	20	40	60	80	100	120									
U-PVC	○	○	○				○	○	○				○	○	○				○	○	○				○	○	○				○	○	○						
C-PVC	○	○	○	○			○	○	○	△			○	○	○	△			○	○	○	○			○	○	○	○			○	○	△	×					
PP	○	○	○	○			○	○	○	○			○	○	○	○			○	○	○	○			○	○	○	○			○	○	○						
PVDF	○	○	○	○	○	○	○	○	○	○	○	×	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○			
PTFE	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○			
FKM	○	○	○	○	○	○	○	○	○	○	△		○	○	○	○	○	○	○	○	○	○	○	○	△	×			△	×									
EPDM	○	○	○	○			○	○	○	×			○	○	○	○			○	○	○			○	○	○			○	○	○			○	○	○			
FKM-F	○	○	○	○	○		○	○	○				○	○	○	○	○	○	○	○			○	○	○			△	×					△	×				
FKM-C													○	○	○	○	○	○	○	○	△	×		△	×					△	×								

Chemicals	Organic solvent																																			
	Acetone <chem>CH3COCH3</chem>						Ethanol <chem>C2H5OH</chem>						Methanol <chem>CH3OH</chem>						Toluene <chem>C6H5CH3</chem>						Benzene <chem>C6H6</chem>											
	Pure*2						Pure*2						Pure*2						Pure*2						Pure*2											
Temp.	20	40	60	80	100	120	20	40	60	80	100	120	20	40	60	80	100	120	20	40	60	80	100	120	20	40	60	80	100	120						
U-PVC	×						○	○	○				○	○	○				×						×						△	×				
C-PVC	×						○	○	○	△			○	○	○				×						×						△	×				
PP	○	○	△				○	○	○	○			○	○	○	○			○	△	×				○	△	×				○	△				
PVDF	×						○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	△		○	○	○	○	△		○	○	○	△	×	
PTFE	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	△	○	○	○	○	○	○	○	○	○	○	○	○
FKM	×						○	○	○	○			○	○	△	△	△	○						○						○	○	○	○			
EPDM	○	○					○	○	○	○			○	○	○	○			×						×						×					
FKM-F																																				
FKM-C																																				

\*1 Saturation: a concentration such that the solution is saturated at every working temperature \*2 Pure: 100% or pure solution

○.....Little or no effect ○.....Slight effect △.....Noticeable effect ×.....Severe effect

Inorganic acid																														
acid		Nitric acid HNO <sub>3</sub>										Hydrofluoric acid HF										Chemicals								
35		10					30					10					30					Concentration								
20	40	60	80	100	120	20	40	60	80	100	120	20	40	60	80	100	120	20	40	60	80	100	120	20	40	60	80	100	120	Temp.
○	○	○				○	○	○				○	○	○				○	○	△				○	○	△	×			U-PVC
○	○	○	○			○	○	○	○			○	○	△	×			○	○	○	△			○	○	△	×			C-PVC
○	○	○	○			○	○	○	○			○	○	○	○			○	○	○	○	○		○	○	○	○			PP
○	○	○	○	○	△	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○		○	○	○	○	○		PVDF
○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○		○	○	○	○	○		PTFE
○	×					○	○	○	○	○		○	○	○	△			○	○	○	○	○		○	○	○	○	○		FKM
○	×					○	○	○	×			○	○	×				○	○	○	○			○	○	○	○			EPDM
○	○	○	○			○	○	○	○	○		○	○	○	○	○	○	○	○	○	○	○		○	○	○	○	○		FKM-F
○	○	○	○			○	○	○	○	○		○	○					○	○	○	○	△		○	○	○	△			FKM-C

Alkali																		
Ammonia water NH <sub>4</sub> OH					Sodium hydroxide (caustic soda) NaOH										Chemicals			
40					5					30					Concentration			
20	40	60	80	100	120	20	40	60	80	100	120	20	40	60	80	100	120	Temp.
○	○	○				○	○	○				○	○	○				U-PVC
×	×	×	×			△	×	×	×			○	○	△	×			C-PVC
○	○	○	○			○	○	○	○			○	○	○	○			PP
○	○	○	○	○	○	○	○	○	△	△		○	○	○	△	×		PVDF
○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	PTFE
○	△	×				△	△	×				△	×					FKM
○	○	○				○	○	○	○			○	○	○	○			EPDM
○	△	×				○	○	△				○	○					FKM-F
○	△	×				○	○	△				○	○					FKM-C

Other															Mixed acid															
Hydrogen peroxide H <sub>2</sub> O <sub>2</sub>					Sodium hypochlorite NaClO										Nitric acid + Hydrofluoric acid HNO <sub>3</sub> + HF					Aqua regia HNO <sub>3</sub> + 3HCl					Chemicals					
20					3					13					150g/l + 200g/l										Concentration					
20	40	60	80	100	120	20	40	60	80	100	120	20	40	60	80	100	120	20	40	60	80	100	120	20	40	60	80	100	120	Temp.
○	○	○				○	○	○				○	○	○				○	○	○				△	△					U-PVC
○	○	○	○			○	○	○				○	○	○										△	△					C-PVC
○	○	○	○			○	○	○				○	△											△	△	×				PP
○	○	○	○	○		○	○	○				○	○	○				○	○	○	○			○	○	○	○	○	△	PVDF
○	○	○	○	○	○	○	○	○				○	○	○				○	○	○	○	○	○	○	○	○	○	○	○	PTFE
○	○	○	○			○	○	○	△			○	○	○	△			△	△	×	×			△						FKM
○	○	○	△			○	○	△				×												×						EPDM
○	○	○	○			○	○	○	△			○	○	○	△			○	○	○	○			○	○					FKM-F
○	○	○	○			○	○	○	○	△		○	○	○	○			△	△	×	×			○	○					FKM-C

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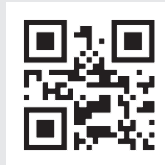
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