



ASAHI AV

ASAHI YUKIZAI CORPORATION

Lineup Guide Leaflet

How to understand this Digest

VALVE TYPE → **DIAPHRAGM VALVE TYPE 14**

COMPATIBLE ACTUATOR → **AUTOMATIC PNEUMATIC**

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

STANDARD → **JIS / DIN / ANSI**

FEATURES →

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

BODY MATERIAL →

U-PVC	C-PVC
PP	PVDF

DIAPHRAGM MATERIAL OR SEAL MATERIAL →

DIAPHRAGM	
EPDM	PTFE
FKM	

SIZE →

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 →

CONNECTION	FLANGED
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PRODUCT IMAGE

Material Indication

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

Body Material

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

Diaphragm Material or Seal material

Symbol	Overview
PTFE	Abbreviation of Poly Tetra Fluoro Ethylene.
EPDM	Abbreviation of Ethylene Propylene Diene Rubber.
FKM	Abbreviation of Fluorocarbon Rubber.
Viflon® F FKM-F	Abbreviation of Fluorocarbon Rubber of Terpolymer. Viflon® is a registered trademark of ASAHI YUKIZAI CORPORATION and indicated to FKM-F or Viflon®F.
Viflon® C FKM-C	Abbreviation of Fluorocarbon Rubber of Terpolymer. Viflon® is a registered trademark of ASAHI YUKIZAI CORPORATION that is indicated to FKM-C or Viflon®C.
SBR	Abbreviation of Styrene Butadiene Rubber.
NBR	Abbreviation of Acrylonitrile Butadiene Rubber.
IIR	Abbreviation of Isobutylene Isoprene Rubber.
CSM	Abbreviation of Chlorosulfonated Polyethylene.
JIABLOCK IIR-C	Abbreviation of Isobutylene Isoprene 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

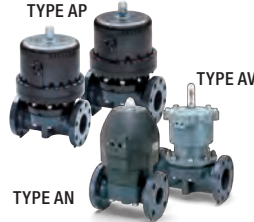
TYPE AN DOUBLE ACTING
TYPE AV AIR TO OPEN
TYPE AP AIR TO SHUT

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

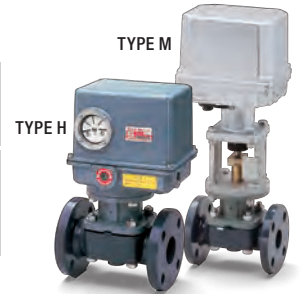
TYPE H Single-Phase 100V
TYPE M Single-Phase 200V
DC24V * * TYPE M only.

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

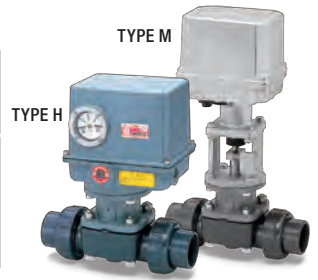
TYPE H Single-Phase 100V
TYPE M Single-Phase 200V
DC24V * * TYPE M only.

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

AUTOMATIC PNEUMATIC TYPE AV

DOUBLE ACTING

AUTOMATIC ELECTRIC TYPE S

Three-Phase AC200V
Three-Phase AC400V

JIS / DIN / ANSI

· LARGE SIZE DIAPHRAGM VALVE

U-PVC PP
PVDF

DIAPHRAGM
EPDM PTFE
FKM



SIZE	mm	200, 250
	inch	8, 10
CONNECTION	FLANGED	

JIS / DIN / ANSI

· NEAR-LINEAR FLOW CHARACTERISTICS

U-PVC PP
PVDF

DIAPHRAGM
EPDM PTFE
FKM



SIZE	mm	200, 250
	inch	8, 10
CONNECTION	FLANGED	

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

TRUE UNION DIAPHRAGM VALVE (TYPE AI)

AUTOMATIC PNEUMATIC TYPE AI

DOUBLE ACTING
AIR TO OPEN
AIR TO SHUT

DIAPHRAGM VALVE TYPE 16

AUTOMATIC PNEUMATIC TYPE AD

DOUBLE ACTING
AIR TO OPEN

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	

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	

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

AUTOMATIC PNEUMATIC TYPE TA

DOUBLE ACTING
AIR TO OPEN
AIR TO SHUT

TYPE AA

AUTOMATIC ELECTRIC TYPE T

Single-Phase 100V
Single-Phase 200V

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



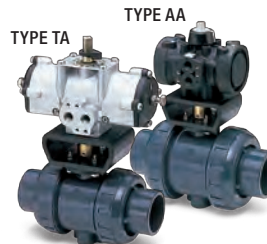
SIZE	mm	15, 20, 25, 32, 40, 50, 65, 80, 100
	inch	1/2, 3/4, 1, 1 1/4, 1 1/2, 2, 2 1/2, 3, 4
CONNECTION	FLANGED, SOCKET, THREADED, SPIGOT	

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	

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

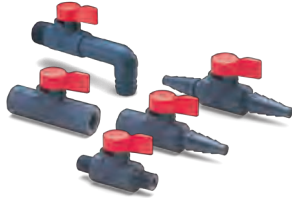
U-PVC

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

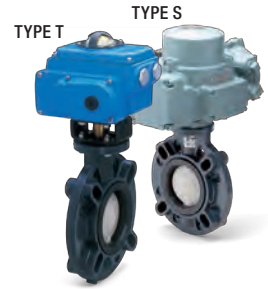
TYPE T
TYPE S

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

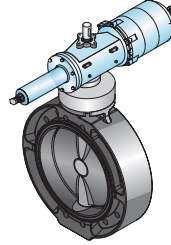
DOUBLE ACTING

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

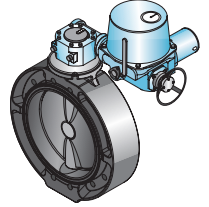
Three-Phase AC200V
Three-Phase AC400V

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

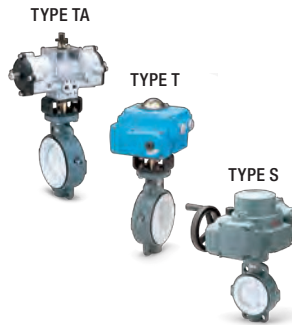
DOUBLE ACTING	AIR TO OPEN	AIR TO SHUT
Single-Phase AC100V	Single-Phase AC200V	
Three-Phase AC200V	Three-Phase AC400V	

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

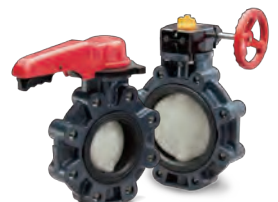
- SINGLE PIPING AVAILABLE BY THE USE OF LUG STRUCTURE (DIRECTION OF FLOW NOT FIXED)

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

TYPE TA

DOUBLE ACTING

AIR TO OPEN

AIR TO SHUT

ELECTRIC

TYPE T

Single-Phase AC100V

Single-Phase AC200V

TYPE S

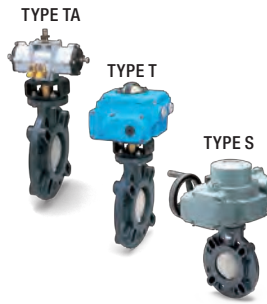
Three-Phase AC200V

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

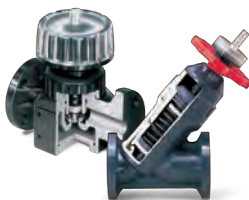
MANUAL

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

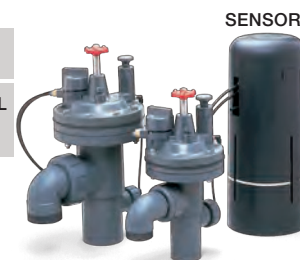
MANUAL

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

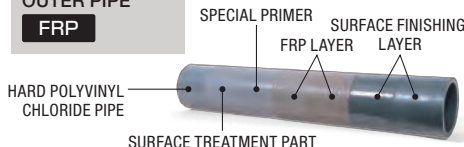
• APPLICABLE FOR HIGH TEMPERATURE AND HIGH PRESSURE CONDITIONS BY REINFORCING VINYL CHLORIDE PIPE OR POLYPROPYLENE PIPE WITH FRP

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

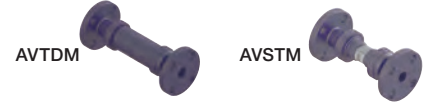


SIZE	mm	13 - 300
	inch	1/2 - 12

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

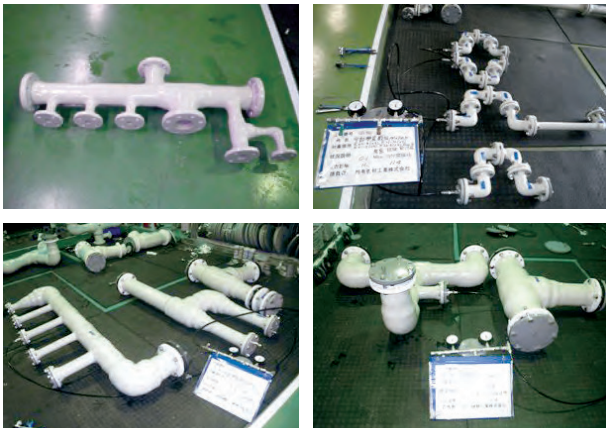
We engage in design and construction of various facilities (semiconductor, ironmaking, chemical plant, aquarium, etc.) with our in-house products (valves, pipes, etc.)



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



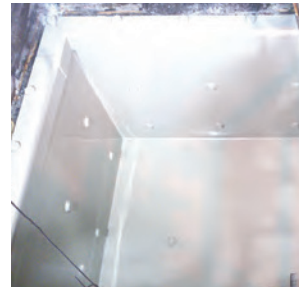
PP TOWER/TANK, PLASTICS PROCESSED PRODUCT

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 HCl																							
	Calcium chloride CaCl ₂					Sodium chloride NaCl					Aluminum sulfate Al ₂ (SO ₄) ₃											Ferrous sulfate FeSO ₄																	
	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 H ₂ SO ₄						Phosphoric acid H ₃ PO ₄						Acetic acid CH ₃ COOH																									
	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 CH ₃ COCH ₃						Ethanol C ₂ H ₅ OH						Methanol CH ₃ OH						Toluene C ₆ H ₅ CH ₃						Benzene C ₆ H ₆											
	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 ₃										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 ₄ 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 ₂ O ₂					Sodium hypochlorite NaClO										Nitric acid + Hydrofluoric acid HNO ₃ + HF					Aqua regia HNO ₃ + 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

Global Network

JAPAN

ASAHI YUKIZAI CORPORATION (AV GLOBAL DEPARTMENT)
Ueno Frontier Tower., 21F, 24-6 Ueno 3chome, Taito-ku, Tokyo 110-0005,
JAPAN
TEL: +81-3-5826-8831 FAX: +81-3-3834-7592

THAILAND

ASAHI YUKIZAI CORPORATION. BANGKOK REPRESENTATIVE OFFICE.
323 United Center Building, Unit 3004B, 30th Floor, Silom Road, Silom,
Bangrak, Bangkok 10500 THAILAND
TEL: +662-631-1100 FAX: +662-631-1103

KOREA

ASAHI KOREA CO.,LTD [Subsidiary]
#805-D Digitalempire office, 16, Deogyong-daero
1556beon-gil, Yeongtong-dong, Yeongtong-gu, Suwon-si, Gyeonggi-do, Korea
TEL: +82-31-203-2050 FAX: +82-31-203-2880

SINGAPORE

ASAHI ASIA PACIFIC PTE.LTD. [Subsidiary]
207 Woodlands Avenue 9, #06-55, Singapore 738958
TEL: +65-6755-8033 FAX: +65-6754-7033

CHINA

ASAHI ORGANIC CHEMICALS TRADING (SHANGHAI) CO.,LTD.
[Subsidiary]
Rm 405, East Tower, Sun Plaza NO.88 Xianxia Road, Changning District,
Shanghai, China 200336
TEL: +86-21-6278-7862 FAX: +86-21-6278-7892

ASAHI AV VALVE (SHANGHAI) CO., LTD. [Subsidiary]
No.18, Shanghai Malu Fengdeng Industry City, 615 Fengdeng Road,
Malu Town, Jiading District, Shanghai 201818, PRC
TEL: +86-21-6139-2600 FAX: +86-21-6139-2606

GERMANY

ASAHI AV EUROPE GmbH [Subsidiary]
Kaiser-Friedrich-Promenade 61 D-61348 Bad Homburg Germany
TEL: +49-6172-9175-0 FAX: +49-6172-9175-25

USA

ASAHI/AMERICA,INC [Subsidiary]
655 Andover, St.Lawrence, MA 01843 USA
TEL: +1-781-321-5409 FAX: +1-978-685-3010

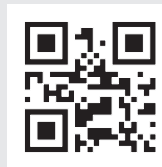
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comercial@grupoquero.com www.agruquero.com
T: +34 91 692 71 60 F: +34 91 692 60 57