

PT. MANDIRI WAHANATAMA

Mechanical & Instrumentation Supply

COMPANY PROFILE



FERTILIZER ★

PETROCHEMICAL ★

POWER INDUSTRY ★

OIL & GAS INDUSTRY ★

OFFICE:

Ruko Green Garden Regency, Blok A5 No. 26

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ABOUT US

Since year 2010, we delivered the goods quality products and competitive price to clients. With the product knowledge and direct supporting from principals and our engineering team we will ensure you will get your products need according your requirement and specification.

We could provide you with the product range as follow:

Gate, Globe, Check, Ball & Butterfly Valves
Subsea, Cryogenic, High Pressure, Custom Made Valve
Pipe, Fitting, Flanges
Hot Induction Bending
Strainers
Raw Materials, like bars, plate, sheet, etc.
Flexible hoses & Expansion Joint
Pressure Safety & Reducing Valves
Rupture Disc
Actuators, Electric, Pneumatic & Hydraulic
Instrumentation
Tank Protection & Tank Gauging
Bolt & Nuts
Welding Habitat System

with material as follow:

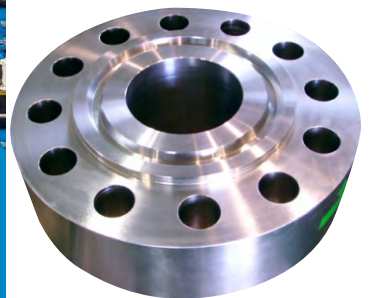
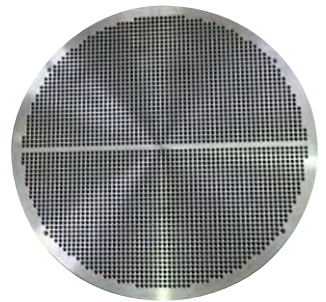
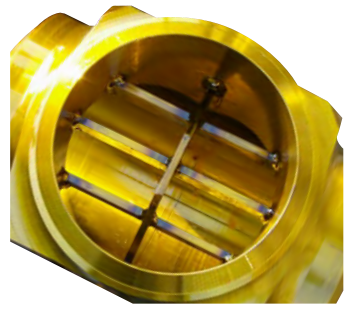
Carbon Steel
Alloy Steel for High Temperature
Low Temperature Steel
Stainless Steel
Plastic (PVC, PP & PVDF)
Exotic Metals like Duplex, Incolloy, Inconnel, Hastelloy, Titanium, Zirconium

T.F.TECH

Manufacturer of Forged Fittings & Piping Products

We are committed to world class products and customer satisfaction for forged steel fittings and piping products.

Passion Connected
for Customer Satisfaction



T.F.TECH.Co.,Ltd.

Manual Operation Valve

- DIAPHRAGM VALVE
- BALL VALVE
- BUTTERFLY VALVE
- GATE VALVE

Other

- GLOBE VALVE
- STRAINER
- CHECK VALVE SWING TYPE
- CHECK VALVE BALL TYPE
- CHECK VALVE LIFT TYPE
- RELIEF VALVE
- PRESSURE REGULATION VALVE



Automatic Operation Valve

PNEUMATIC VALVES

(DIAPHRAGM, BALL & BUTTERFLY VALVES)

ELECTRIC VALVES

(DIAPHRAGM, BALL, 3 WAY & BUTTERFLY VALVES)

Pipe, Fittings & Accessories

- U-PVC, H-T PVC, PP & PVDF PIPES
- U-PVC, H-T PVC, PP & PVDF FITTINGS
- FRP REINFORCE U-PVC PIPE & FITTINGS
- CLEAN PIPES
- DUCT PIPES
- PVC - LINING PIPES & FITTINGS
- GASKET / PACKING
- SOLVENT CEMENT
- WELDING ROD





KEY VALVE

www.key-valves.com

KEY VALVES CO., LTD

UNLOCKING YOUR POTENTIAL

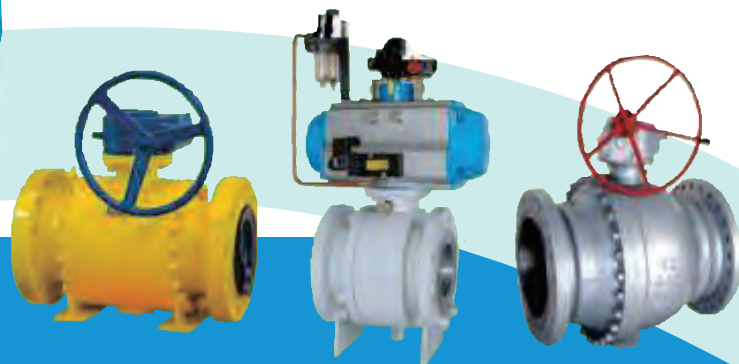
Quality First Service Foremost

**API & BS CAST & FORGED
STEEL VALVES**

Floating Ball Valve Series



Trunnion Ball Valve Series



Gate Valve Series



Globe Valve Series



Check Valve Series



Forged Steel Valve Series



Special Valve



Strainer





**FOCUSED ON BEING THE MOST RELIABLE, FLEXIBLE AND
QUALITY-MINDED BALL VALVE MANUFACTURER IN THE WORLD**

**Our ball valves are implemented around the world for multiple uses, including
OILFIELD, INDUSTRIAL AND CHEMICAL APPLICATIONS**



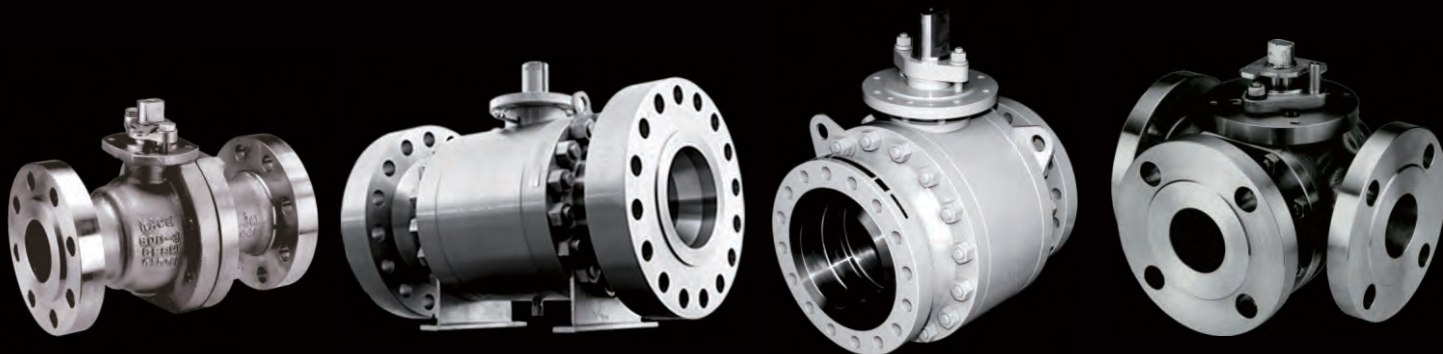
**FROM THE SMALLEST APPLICATION
TO ENTIRE INSTALLATIONS,
KACE BALL VALVES CAN HANDLE ANY JOB!**

PRODUCT TYPE

**Cryogenic - Floating - Catalyst Injection & Metering, Three-Way Flanged -
Three-Way Threaded - Speciality/ Custom Ball Valves - High Purity -
High Pressure Threaded - Metal Seated - Trunnion Mounted - Twin - 3-Piece**

CERTIFICATION

API 6D, API 607, API Spec 6F, ISO 9001:2008, ISO 9001:2015, SIL Type





New Standard in Process Valves

Custom Made With 30 years of experience designing and producing special valves development to use our knowledge and exibility to build together

Piston Valves

- Dual Seal Arrangement
- Metal Seated
- Seat-less Design
- Heating Jacket



Disc Bottom Valves

- Open into the Tank or the Valves



Multi-Ways Valves

- Hot Polymer Valving Helps Improving Piping Layout



Sampling Valves

- Flushing, venting, draining or cleaning nozzles with or without valves will match all process requirement .
- Volume sampling is the safest to avoid opening of process to atmosphere



Ball Valves

- Only sophisticated and heavy-duty metal seated and trunnion mounted ball valves



Gate Valves

- Fabricated design provides design exibility and allows small quantities we can supply very dicult or out of standart application.



Globe Valves

- Fabricated design provides supply every dicult or out of standart application



Wash Down Equipment

- Mixing units
- Multiple Series Hot and Cold Water



- Hoses
- Nozzles



- Cabinets & Hose reels
- Hose Racks



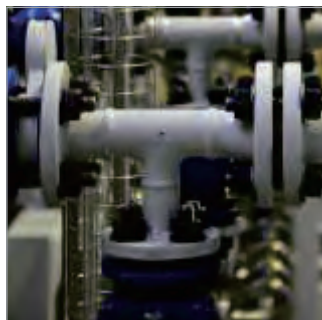
- **Spray and Clean** with 30 years of experience developing products
ROTATIVE Spray Rinse Valve
NON-ROTATIVE Spray Rinse Valve



Since more than 30 years, Diflon Technology srl. produces piping , fittings , columns and tanks according to DIN and ANSI standards, lined in PTFE and PFA. Performs technical flexible hoses , antacids gaskets in Diflex , PTFE-lined expansion joints and also coatings in PFA on behalf of third parties. All products are built using the most modern manufacturing techniques and testing , and comply with the more stringent certifications .

Diflon, PTFE lining since 1969

PRODUCTS



DIFLINE

PTFE lined pipes and fittings in carbon steel or stainless steel, from DN 15 to DN 500.



DIFLEX

DIFLEX universal gaskets, suitable for all employments: -160°C +260°C, 50 bar, pH 0-14



BELLOWS

PTFE expansion joints with stainless steel house or reinforcement rings, suitable also for vacuum. Besides we manufacture metallic and rubber expansion joints



TANKSLINE

PTFE lined columns and tanks in carbon steel: lining up to 5mm. PED certificates. Diameters up to nominal diameter 2000.



FLEXILINE

PTFE lined, metallic and not, flexible hoses: smooth, convoluted, corrugated and antistatic. We also produce thin-wall, metallic and rubber flexible hoses as well.



PFA

Design and production of PFA-lined metallic bodies on behalf of third parties; we also specialize in the production of PFA moldings.



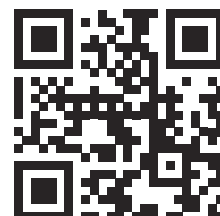
VALVES

FEP-PFA-PTFE lined valves in ductile iron: ball, butterfly, plug, diaphragm and also actuated, Y filters and sight glasses.



PTFE

Virgin and filled PTFE and specials for high prestations Diflon D, available in stock.





EUROGUARCO



Our Products:

Ball Valves:

- Floating Ball Valves
- Trunnion Mounted Ball Valves: Side Entry & Top Entry
- Double Block & Bleed
- Fully Welded

Gate Valves

Globe Valves

Check Valves

Plug Valves

Butterfly Valves

Choke Valves

Cryogenic Valves

Our Standard:

API 6D, API 594, API 599, API 600, API 602, API 603,
API 609, API 6A, ASME B16.34, BS AND ISO

Manufacturing Range:

Size from ½ inch to 36 inch

Materials:

- Cast and Forged Carbon Steel: WCB, WCC, LCB, LCC, A105, LF2, LF3.
- Forged Stainless & Duplex Steel: F304, F316(L), F6, 17-4 PH, AISI 4140, F321, F347, F44, F51, F53, F55.
- Special Alloys: Inconel 625, Hastelloy, Monel 6Mo, Incolloy 825, Alloy 20, Sanycro 28, Titanium.

Special Test:

- HIC & SSC for Sour Service
- Low temperature test for cryogenic service
- Gas test
- Fire safe test as per API 6A
- Fugitive emission test
- Visual and dimension examination
- Hydraulic test
- Dry film thickness
- UT of body welding end
- UT of circular body welds
- Radiographic examination (RT)
- Liquid Penetrant (LP) on machine-finished welding ends
- Inspection of coated and painted surfaces
- Magnetic Particle (MP)
- Any other NDE on request

EUROGUARCO SpA
Italy



MOTHERWELL

TANK PROTECTION

TANK PROTECTION EQUIPMENT FOR BULK LIQUID STORAGE FACILITIES

Tank Breather Valve or Conservation Valve



- ✓ *Pressure & Vacuum Relief Valve*
- ✓ *Pilot - Operated Relief Valve*
- ✓ *Spring Loaded Breather Valve*

Emergency Manways

- ✓ *Pressure Relief Manways*
- ✓ *Pressure & Vacuum Emergency Manways*
- ✓ *Access Manways / Gauge Hatch*



Flame Arresters



- ✓ *Deflagration / Detonation Flame Arrester*
- ✓ *End of Line Flame Arrester*
- ✓ *Vent Combination Flame Arrester*

Tank Blanketing Valve

- ✓ *Protection to Storage Tank against Contamination and Rupture or Damage to the Vessel*



Level Gauges



- ✓ *Tank Liquid Level Indicator*
- ✓ *Float Operated Level Gauge*
- ✓ *High Pressure Float Level*

BARTON FIRTOP® World Leading Filtration

ENGINEERING
COMPANY
LTD.



**Fabricated Basket Strainer
with Optional Davit**



**Screwed Y-Type
Strainer**



**Flanged Y-Type
Strainer**



Bi Simplex Strainer



**Quick Release Basket
(Mono-in-line Strainer)**



**Duplex "Firplex"
Ball Strainer**



**Self Cleaning
Filter**



Temporary Strainer



**Duplex Skid
Filter Package**



**Quick Release Basket
(Mono-in-line Strainer)**



**Fabricated Flange
"Bath Tub Strainer"**

**Material available in CS/Low Temp CS, SS, Duplex / Super Duplex SS,
6 Mo , Inconel 625 & 825. Hastelloy & Titanium**



**PROCESS PROTECTION
EQUIPMENT**



ZOOK®

ONE source
for ALL your
Rupture Disk needs...

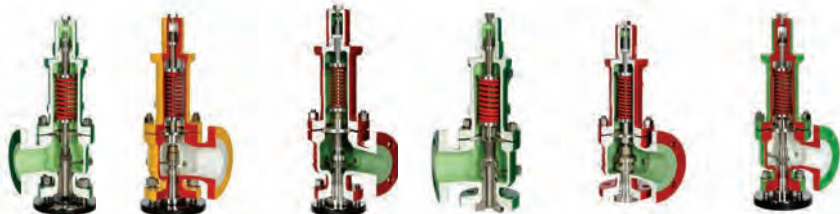
- Reverse Acting Disk
- Graphite Disk
- Forward Acting Disk
- Transportation Disks
- Ultra Low Pressure Rupture Disk
- Explosion Vent / Panel
- Sanitary Disk
- Burst Sensor / Indicator
- Extruder Rupture Disk
- Rupture Disk Holder
- Accessories





Nacional

SAFETY VALVES



Model 64LC

Model 64GF

Model 64GC

Model 64LF

Safety valve Model 64

Safety valve 90° angular type of rapid opening (pop action), full nozzle, and spring loaded, adjusting ring, conventional or balanced.

Sizes :
from 1" x 2" up to 12" x 16"

Flanges rating:
Inlet 150 ÷ 2500#
Outlet 150 ÷ 300#
Also supplied with DIN flanges.

Safety valve Model 3-51

Safety valve 90° angular type of rapid opening (pop action), full nozzle, and spring loaded, adjusting ring, conventional or balanced.

Sizes :
from 1/2" x 3/4" up to 1" x 1"

Flanges rating:
Inlet 150 ÷ 1500#
Outlet 150 ÷ 300#, ASME 16,5
Supplied with DIN flanges under request



Model 3-5111 Flange

Model 3-5111 Threaded

Safety valve Model 3-50

Safety valve 90° angular type of rapid opening (pop action), full nozzle, spring loaded, adjusting ring.

Sizes :
from 1/2" x 3/4" up to 1" x 1"

Thread connections:
NPTF-ANSI B1.20.3; BSP-BS 21



Model 3-50



Model 3-5500

Safety valve Model 3-55

Safety valve 90° angular type of rapid opening, semi nozzle, spring loaded.

Sizes :
DN20x32 up to DN150xDN250

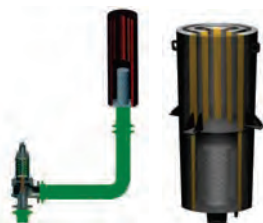
Flanges rating:
Inlet PN-16 ÷ 40
Outlet PN-16
Also supplied with ANSI B-16,5 flanges

Valve Silencer

Silencers are used to reduce noise in safety valves (PSV), Relief Valves (PRV), starter valves, blow valves, blow downs, ejectors, and discharge tanks.

Sizes :
Inlet size NPS 2 – 40

End Connection :
ASME B-16,5 flanges
ASME B-16,25 butt-welded



Silencer





- Your right choice for perfect filtration -

PRODUCT RANGE

Simplex Strainer

Material:

Carbon Steel & Stainless Steel

Standard: ANSI, JIS & DIN

Pressure Rating: 10 Bar

Size: 2 inch - 48 inch

Duplex Strainer

Material:

Carbon Steel & Stainless Steel

Standard: ANSI, JIS & DIN

Pressure Rating: 10 Bar

Size: 1 inch - 4 inch

Y- Strainer

Material:

Carbon Steel & Stainless Steel

Standard: ANSI, JIS & DIN

Pressure Rating: 10, 16, 25 Bar

Size: 2 inch - 30 inch

Temporary Cone Strainer

Material:

Stainless Steel

Standard: ANSI, JIS & DIN



LEVEL GAUGE :

- ▶ Tubular Type
- ▶ Reflex Type
- ▶ Tubular Type
- ▶ Transparent Type
- ▶ Magnetic Float Type
- ▶ Zig - Zag Type
- ▶ Non - Frost Type
- ▶ Jacket Type
- ▶ Tranparent & Two Color Type
- ▶ Two Color MultiportType
- ▶ Transparent & Two Color Zig - Zag Type
- ▶ Illuminator Type
- ▶ Level Transmeter
- ▶ Level Switch



SIGHT GLASS :

- See Through Type ◀
- Flapper Type ◀
- Ball Type ◀
- Lantern Type ◀
- High Pressure Type ◀
- Wiper Type ◀

FLOW METER :

- ▶ Orifice Flange Ass'y
- ▶ Orifice Ring Ass'y
- ▶ Integral Orifice Meter Run Ass'y
- ▶ Orifice Plate
- ▶ Model for Venturi Tube Guide
- ▶ Venturi Tube
- ▶ Model for Flow Nozzle Guide
- ▶ Flow Nozzle
- ▶ Hitelfi Average Pitot Tube
- ▶ Con-Venturi
- ▶ Wedge Flow Meter
- ▶ Orifice Flow Indicator
- ▶ Differential Pressure & Variable - Area Flow Meter
- ▶ Metal Tube Rotameter
- ▶ Level Transmitter & Switch
- ▶ Seal Pitot





WELDING HABITAT SYSTEM (WHS)

WHS is used to manage and control risk associated with any performing Hot-Work operation in potentially hazardous areas.

The main objective of the WHS is to isolate ignition sources that are generated from Hot-Work operations taking place inside the Habitat Enclosure from any potentially flammable gases that may exist outside the habitat - in order to protect personnel and assets both inside and outside the enclosure.

Design and Features:

- Standard interchangeable 1 meter x 1 meter panel
- Heavy duty silicone coated Fiberglass fabrics
- Window that are incorporated into some of the standard panels
- Air supply and exhaust blowers to initiate pressurizing & to maintain positive pressure inside Habitat Enclosure

Our Clients

Petronas Carigali, Shell, Talisman Energy, ExxonMobil, Petra Energy, Petrofac, Total, BP etc.



E.H. WACHS®

A Division of ITW

Superior Equipment. Complete Support.™



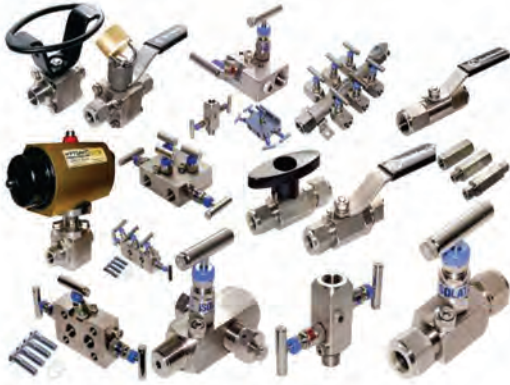
PIPE CUTTING & BEVELING MACHINES

The most important consideration in pipeline maintenance is safety... every E.H. Wachs machine utilizes a cold cutting process designed to eliminate the hazard associated with thermal cutting.

PRODUCT RANGE:

- DynaPrep Split Frame: SDSF or Small Diameter Split Frames, MDSF or Medium Diameter Split Frames; LDSF or Large Diameter Split Frame
- SpeedPrep Pipe Bevelers
- Handheld Valve Operators: P-2 Valve Operator & RS-2 Valve Operator

Alco Instrumental valves Ready to GO!!!



- Ball Valve
- Needle Valve
- Manifolds & Gauge Valve
- Check Valve & Plug Valve

Alco Double Block and Bleed (DBB) & Piping interface solutions

- Flanged & Screwed DBB
- Compact Modular DBB & Monoflange DBB
- Compact Modular SBB & Monoflange SBB
- Flange Injection or Sampling DBB
- Twin Block II / III DBB



ALCO Twin Block

Bore Size range 2" up to 12"

WINTERS INSTRUMENT

MANUFACTURER OF INDUSTRIAL INSTRUMENTATION



We're There.

PRODUCTS RANGE :

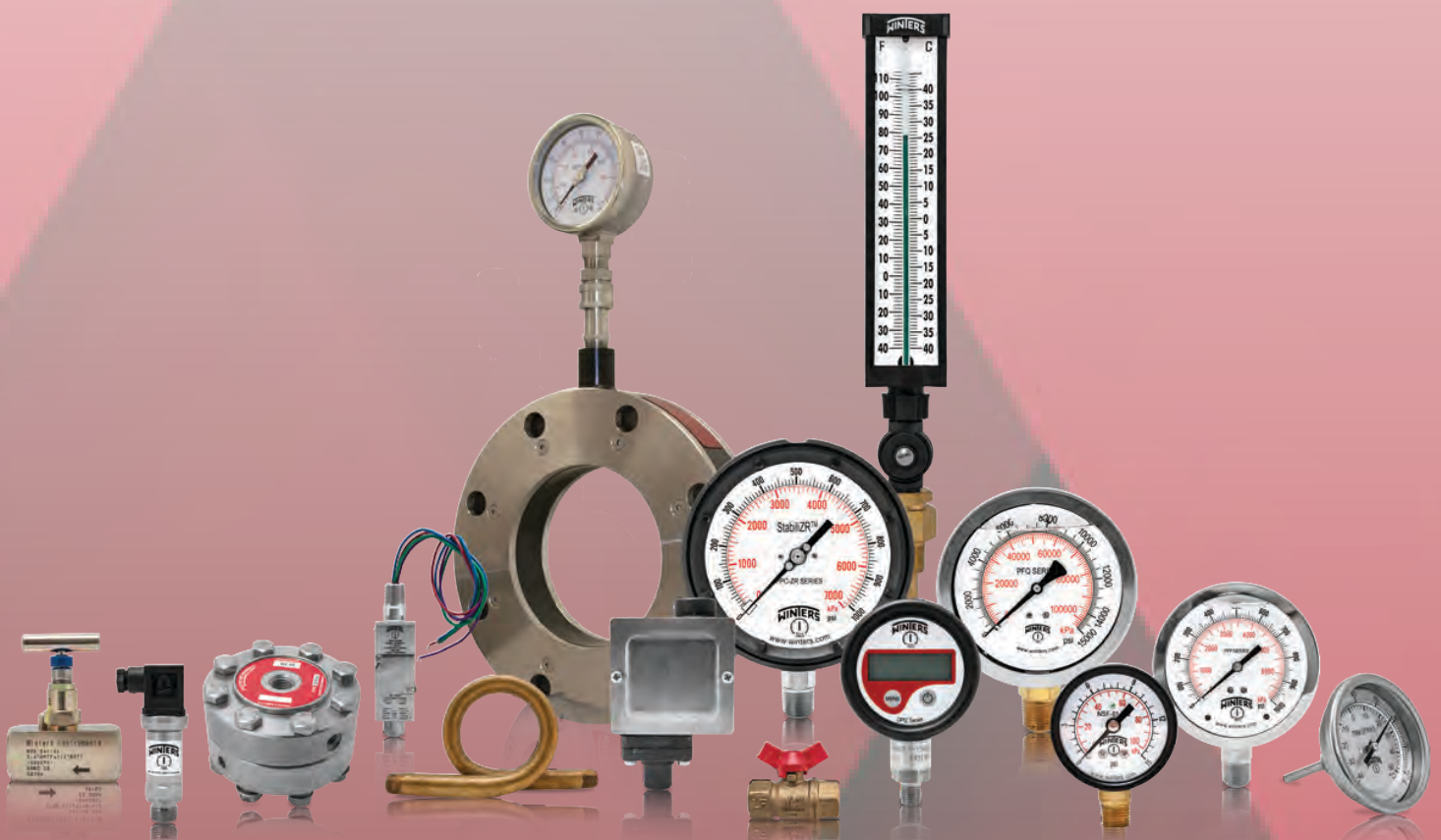
process gauges - Stabilizr® gauges - industrial gauges - economy gauges -
lead free gauges - differential gauges - compressed gas gauges - sanitary gauges -
special application gauges - test kits - pressure transmitters - pressure switches -
diaphragm seals - valves - thermometers - RTDS and thermocouples - thermowells

SERVICES :

calibration - dial changing - fluid filling / drying - gauge audit program (G.A.P) -
oxygen cleaning - seal assembly - repairs

APPLICATION :

ammonia - boiler & hydronic heating system - chiller - compressed gases -
compressor - drinking water - filters - hazardous locations - hydraulic power unit -
low pressure liquids or gases - lubrication system - paint sprayer - positioners
and regulators - pressure washer - pulsation - pump - refrigeration system - etc.



VALVE MATERIAL SPECIFICATIONS

KEY PHYSICAL PROPERTIES	CAST		FORGED	
	ASTM	SUFFIX	ASTM	SUFFIX
CARBON STEEL				
0.25 C Max	A216	WCA	A105	A105
		WCB	A106	A106
		WCC		
LOW TEMPERATURE STEEL				
0.25 C Max	A352-LCA	LCA		
	A352-LCB	LCB	A350LF2	LF2
	A352-LCC	LCC		
0.5 Mo	A352-LC1	LC1		
2 Ni	A352-LC2	LC2		
3 Ni	A352-LC2-1	LC2-1		
3.5 Ni	A352-LC3	LC3	A350LF3	LF3
4.5 Ni	A352-LC4	LC4		
9 Ni	A352-LC9	LC9		
ALLOY STEEL				
0.5 Mo	A217-WC1	WC1	A182-F1	F1
0.5 Cr - 0.5 Mo	A217-WC4	WC4	A182-F2	F2
0.6 Cr - Ni-0.2 Mo	A487-4C	4C		
0.75 Cr - 0.75 Ni - 1 Mo	A182-WC5	WC5		
1 Cr - 0.5 Mo	A182-F12	F12		
1.25 Cr - 0.5 Mo	A217-WC6	WC6	A182-F11	F11
1.25 Cr - 0.5 Mo	A217-WC11	WC11		
2.25 Cr - 1 Mo	A217-WC9	WC9	A182-F22	F22
3 Cr - 1 Mo	A182-F21	F21		
5 Cr - 0.5 Mo	A217-C5	C5	A182-F5	F5
9 Cr - 1 Mo	A217-C12	C12	A182-F9	F9
9 Cr - 1 Mo-0.2 V	A217-C12A	C12A		
STAINLESS STEEL				
13 Cr	A217-CA15	CA15	A182-F6A	F6A
13 Cr - 4 Ni			A182-F6NM	F6NM
17 Cr			A182-F430	F430
18 Cr - 8 Ni			A182-F304H	F304H
18 Cr - 8 Ni with Molybdenum			A182-F316H	F316H
18 Cr - 8 Ni with Titanium			A182-F321	F321
18 Cr - 8 Ni with Titanium			A182-F321H	F321H
18 Cr - 8 Ni with Columbium			A182-F347H	F347H
19 Cr - 9 Ni	A351-CF8	CF8	A182-F304	F304
19 Cr - 10 Ni Low Carbon	A351-CF3	CF3	A182-F304L	F304L
19 Cr - 10 Ni - 2 Mo	A351-CF8M	CF8M	A182-F316	F316
19 Cr - 10 Ni - 2 Mo Low Carbon	A351-CF3M	CF3M	A182-F316L	F316L
19 Cr - 9 Ni - Cb	A351-CF8C	CF8C	A182-F347	F347
13 Cr - 4 Ni - 0.7 Mo	A351-CA6NM	CA6NM		
16 Cr - 4 Ni			A564-630	630
22 Cr - 13 Ni - 5 Mo			A182-FXM19	FXM19
DUPLEX STEEL				
19-22 Cr 27.5-30.5 Ni 2-3 Mo	A351-CN7M	CN7M	B473	
25.5-26.5 Cr 4.7-6 Ni 1.7-2.2 Mo	A351-CD4MCu	CD4M Cu	A182-F50	F50
18-21 Cr 9-13 Ni 3-4 Mo	A351-CG8M	CG8M		
19.5-20.5 Cr 17.5-19.5 Ni 6-7 Mo	A351-CK3MCuN	CK3MCuN	A182-F44	F44
24.5-26.5 Cr 4.7 Ni 1.7-2.2 Mo	A890-1A	1A	A182-F50	F50
21-23.5 Cr 4.5-6.5 Ni 2.5-3.5 Mo	A890-4A	4A	A182-F51	F51
24-26 Cr 6-8 Ni 4-5 Mo	A890-5A	5A	A182-F53	F53
24-26 Cr 6.5-8.5 Ni 3-4 Mo	A890-6A	6A		
24-26 Cr 19-22 Ni			A182-F310	F310