
UNP
DJK
ENERGYHOUSTON
LINED VALVES

VALVE SOLUTIONS FOR CORROSIVE APPLICATIONS

Special Features:

All castings used are investment castings. They are used to obtain homogeneous and intact lining quality with uniform lining thickness wich provides UNP Valve a reliable lining quality and long lasting performance.

UNP through it stringent design considerations has taken both as pects of corrosion resistance and mechanical strenght. Considering high torques in case of butterfly and plug valves UNP decided to use ASTM A890 GR. 4A (CD3MN) duplex material to obtain high "MAST" (Maximum Allowable Shear Torque) values ensuring intactnes of plug ans disc shafts ever at higher operational torques. For other values UNP uses trim inserts at higher grade of metal as ASTM A351 GR. CF8.

UNP uses allen bolts or stud & nut combination ans high tensile body bolts are used considering its mechanical as well as corrosion aspects.

UNP uses 100% virgin lining materials and is buying directly from the sources such as dyneon, chemours, solvay, llyondell basell etc. ensuring that the best and uniform quality of lining is done for UNP valves ensuring high reliability in terms of life ans performance.

UNP has best painting technique ans is using two part epoxy paint with proper paint procedureof 1st coat os epoxy primer & 2nd and 3rd coat of epoxy oaint with minimum DFT of 150 microns. Painting is most important in the UNP valve as it provides protection against most corrosive environment making the valve to survive against most corosive environment and provides metal a very long life.

Original Teflon
Dupont
3M Dyneon

Lining Options:

PFA
PVDF (Kynar)
PFA Antiestático
PPH
ECTFE/ETFE

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LINED VALVES

DIAPHRAGM VALVE
Rising hand wheel

DIAPHRAGM VALVE
Rising hand wheel

PLUG VALVE
Lever operated

PLUG VALVE
Gear operated

BUTTERFLY VALVE (WAFER)
Lever and gear operated

BUTTERFLY VALVE (FULL LUG)
Lever and gear operated

BALL VALVE
Side split design | Full port

ANTISTATIC PFA BALL VALVE
Lever operated

BALL VALVE
Gear operated

"Y" TYPE STRAINER

BALL CHECK VALVE
Vertical installation

GLOBE VALVE
Straight type

SWING CHECK VALVE
Water type

SAMPLING VALVE
Flanged type

SAMPLING VALVE
Sandwich type with shot glass bottle

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THERMOPLASTIC VALVES

DIAPHRAGM VALVE
(Advanced version)

DIAPHRAGM VALVE
(Advanced version)

DIAPHRAGM VALVE

DIAPHRAGM VALVE

BALL VALVE
Side split | Full Port | PVDF

BALL VALVE
Side split | Full Port | PPH

BALL VALVE
Socket weld | Threaded end

BUTTERFLY VALVE
Lever operated

BUTTERFLY VALVE
Gear operated

BALL CHECK VALVE
Flanged end

SWING CHECK VALVE
Water type

SAMPLING VALVE
Flanged type

SAMPLING VALVE
Sandwich type

FOOT VALVE
Flanged end

SIGHT GLASS
Flanged end

STRAINER
"T" | Basket type

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THERMOPLASTIC ACTUATED VALVES

PNEUMATICALLY ACTUATED
Diaphragma
Valve

ELECTRICALLY ACTUATED
Diaphragma
Valve

PNEUMATICALLY ACTUATED
Ball
Valve

ELECTRICALLY ACTUATED
Ball
Valve

PNEUMATICALLY ACTUATED
CPVC Butterfly
Valve

PNEUMATICALLY ACTUATED
CPVC Ball
Valve

PNEUMATICALLY ACTUATED
PPH Butterfly
Valve

ELECTRICALLY ACTUATED
PPH Butterfly
Valve

LINED ACTUATED VALVES

PNEUMATICALLY ACTUATED
Lined Ball
Valve

PNEUMATICALLY ACTUATED
Lined Globe
Control Valve

PNEUMATICALLY ACTUATED
Lined Ball
Valve

PNEUMATICALLY ACTUATED
Lined Diaphragma
Valve

PNEUMATICALLY ACTUATED
Lined Globe
Control Valve

PNEUMATICALLY ACTUATED
Lined Butterfly
Valve

PNEUMATICALLY ACTUATED
Lined Plug
Valve

PNEUMATICALLY ACTUATED
Metal Disc
Butterfly Valve

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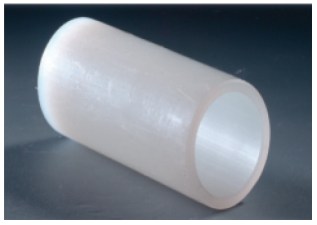
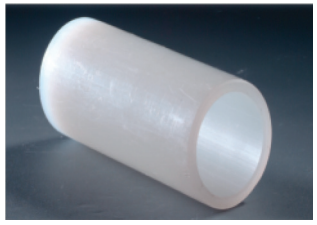
PLASTIC PIPES & FITTINGS

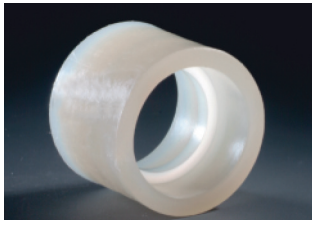


PIPES
PVDF
PLAIN ENDS

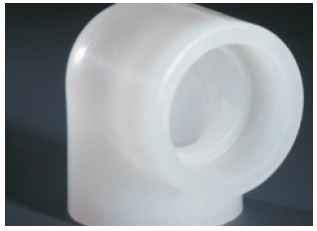


PIPES
PP / ISO.PP / PPH
PLAIN ENDS

CONCENTRIC REDUCERS
PP / ISO.PP / PPH / PVDF
BUTT WELD ENDS



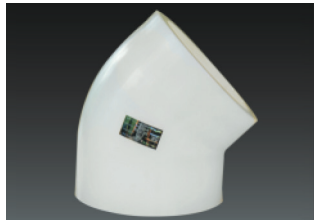
COUPLINGS
PP / ISO.PP / PPH / PVDF
SOCKET WELD ENDS



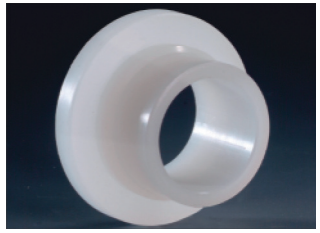
ELBOWS
PP / ISO.PP / PPH / PVDF
SOCKET WELD ENDS

BENDS 90º

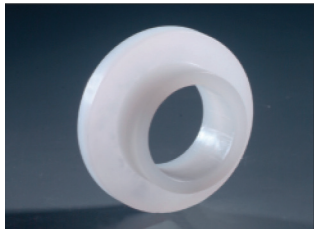
ELBOW 90°
PVDF
BUTT WELD ENDS



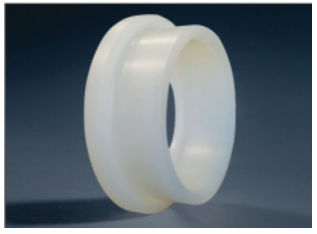
ELBOW 45°
PP / ISO.PP / PPH / PVDF
SOCKET WELD ENDS



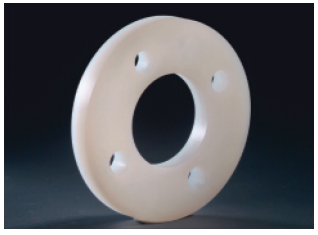
STUB
PVDF
BUTT WELD ENDS
LONG NECK



STUB
PP / ISO.PP / PPH / PVDF
BUTT WELD ENDS
SHORT NECK



SOCKET WELD
PP / ISO.PP / PPH / PVDF
STUB ENDS



FLANGES
PP / ISO.PP / PPH / PVDF
SLIP ON & PIPE BORE

EQUAL TEES
PP / ISO.PP / PPH / PVDF
SOCKET WELD ENDS

EQUAL TEES
PVDF
BUTT WELD ENDS

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LINED PIPES & FITTINGS

PIPES

ELBOWS 90° / 45°

EQUAL TEES

UNEQUAL TEES

EQUAL CROSS

CONCENTRIC REDUCERS

INSTRUMENT TEES

REDUCING FLANGES

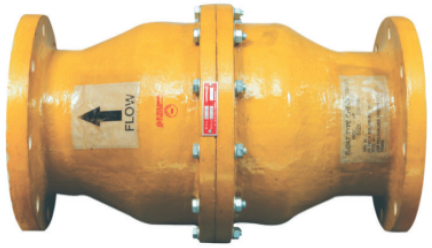
LINED SIGHT GLASS
Double window

SPECIALITY PRODUCTS

DAMPER
Gear, pneumatically & electrically actuated
Size range: 2" to 60"

STRAINER
"T" / Basket type large size
Size range: 6" to 16"

CHECK VALVE
Float type vertical installation - large size
Size range: 6" to 16"



CHECK VALVE
Float type horizontal installation - large size
Size range: 6" to 16"

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CAUSTIC AND BRINE INLET DISTRIBUTION HEADERS

Features:

- Caustic and brine distribution headers are a vital component of chlor-alkali plant, manufacturing caustic soda withmembrane cell technology
- There headers are installed in combination of left and right or tee type on electrolyser of chlor-alkali plant. Different electrolysers have requirements os various numbers of nozzles on header pipes depending on the capacity of electrolysers.
- Entire ranges of 14 nos., 17 nos., 21 nos., 34 nos., 46 nos. and 58 nos. are manufactured by us.
- These pipes are subjected to elevated temperatures upto 110°C, and are manufactures from special grade Isotactic PP, the most suitable material of construction for such application.
- The distribution headers are in operation in the leading chlor-alkali plants in India and abroad for past 20 years.

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