



**MEETING STANDARDS IS OUR STANDARD**

## **OXYGEN VALVES\***

A NEW LINE OF PRODUCTS IN RuB VALVES RANGE!  
RuB IS HAPPY TO INTRODUCE THE NEW BRASS BALL VALVES ENGINEERED FOR INDUSTRIAL OXYGEN APPLICATIONS. RuB OXYGEN VALVES ARE MADE FROM FIRST QUALITY COMPONENTS, ASSEMBLED IN CLEANROOM AND PACKED IN SINGLE SEALED BAGS. YOU CAN CHOSE AMONG VARIOUS CONFIGURATIONS; CONTACT YOUR RuB DISTRIBUTOR FOR MORE DETAILS!

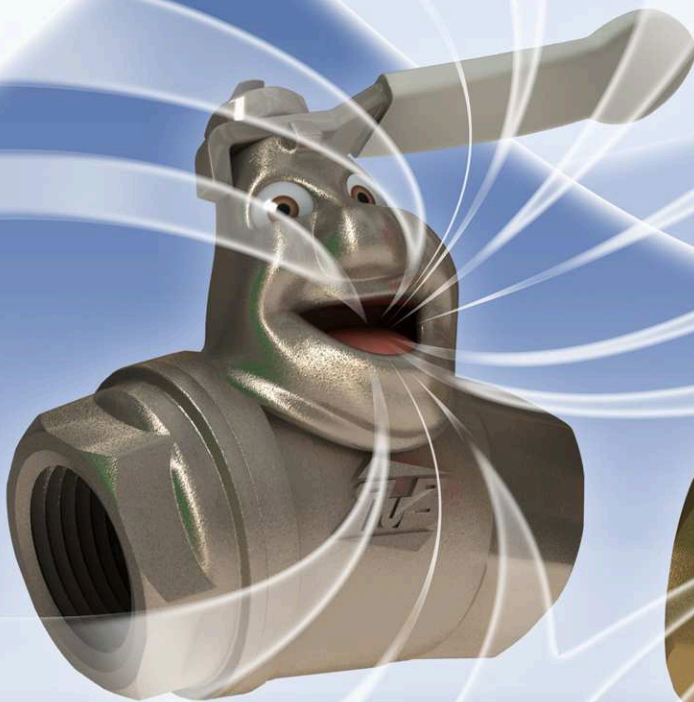
### **OXYGEN**

OXYGEN IS THE MOST COMMON CHEMICAL ELEMENT ON EARTH. IT IS MAINLY PRODUCED BY VEGETATION AND REPRESENTS ALMOST 47% OF EARTH MASS, 87% OF THE OCEANS AND 21% OF THE ATMOSPHERE, THAT IS, OUR BREATHING AIR.

MAN DISCOVERED THAT OXYGEN CAN BE VERY USEFUL IN MANY PRODUCTION PROCESSES, FROM INDUSTRY TO ZOOTECHNICS, BUT HAS ALSO LEARNED THAT OXYGEN HELPS OUT AND SPEEDS UP COMBUSTION, SO IT HAS TO BE MANAGED VERY CAUTIOUSLY WITH ADEQUATE TOOLS.

IN ORDER TO AVOID FIRE AND EXPLOSION HAZARD WHEN HANDLING COMPRESSED PURE OXYGEN, IT IS ESSENTIAL THAT THE SO CALLED "OXYGEN-COMPATIBLE" OR "OXYGEN-CLEAN" EQUIPMENT IS USED, THIS MEANS THAT EQUIPMENT MUST BE PERFECTLY CLEANED OUT OF ANY KIND OF IMPURITY OR COMBUSTIBLE MATERIALS.

**RuB** HAS SPECIFICALLY DEVELOPED THIS NEW RANGE OF VALVES TO MEET THE REQUIREMENTS OF PROFESSIONAL PEOPLE MAKING USE OF OXYGEN FOR THEIR ACTIVITIES.



\*NOT FOR MEDICAL USE.



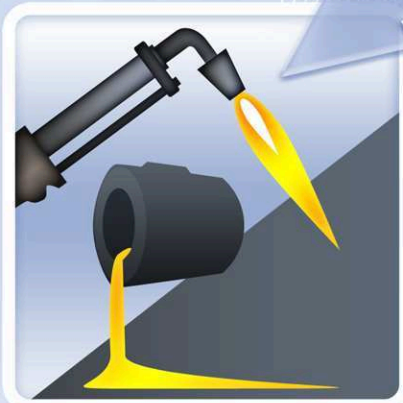
## FOOD AND BEVERAGE

- FOR MODIFIED ATMOSPHERE PACKAGING.
- TO BREED AND TRANSPORT FISH: BY ADDING OXYGEN, FISH FARMERS CAN ENHANCE GROWTH RATES AND FISH DENSITY FOR INCREASED TANK CAPACITY.
- TO PRODUCE OZONE; OZONE IS USED FOR DISINFESTATIONS AND STERILIZATION IN INDUSTRIAL MANUFACTURING PROCESSES.



## WATER AND WASTE

THE MAIN ENVIRONMENTAL APPLICATION OF OXYGEN IS THE TREATMENT OF WASTEWATERS IN ACTIVATED SLUDGE PLANTS, FOR THE ACTIVATION OF A BIOMASS CAPABLE OF DESTROYING THE DISSOLVED CONTAMINANTS; OXYGEN IS ALSO USED FOR WASTE INCINERATION. OZONE, PRODUCED FROM PURE OXYGEN, IS USED IN TAP AND WASTE WATER TREATMENT, ESPECIALLY FOR VERY HARD TO PURIFY WASTE WATER; OZONE IS USED TO ENABLE THE OXIDISATION OF ORGANIC AND INORGANIC MACROMOLECULES, IN ADDITION TO TREATING DRINKING WATER AND EFFLUENT IN A DISINFECTING AND PURIFICATION CAPACITY.



## METAL PRODUCTION AND FABRICATION

- TO REPLACE OR ENRICH AIR, INCREASING COMBUSTION TEMPERATURES IN FERROUS AND NON-FERROUS METAL PRODUCTION.
- TO CREATE A HOT FLAME IN HIGH-TEMPERATURE WELDING TORCHES USED IN CUTTING AND WELDING.
- TO SUPPORT OXYFUEL CUTTING OPERATIONS.
- SOMETIMES ADDED IN SMALL QUANTITIES FOR SHIELDING GASES.



## CHEMICAL INDUSTRY

- TO ALTER THE STRUCTURE OF FEEDSTOCKS THROUGH OXIDATION, PRODUCING NITRIC ACID, ETHYLENE OXIDE, PROPYLENE OXIDE, VINYL CHLORIDE MONOMER AND OTHER BUILDING BLOCK CHEMICALS.
- TO INCREASE CAPACITY AND THE DESTRUCTION EFFICIENCY OF WASTE INCINERATORS.
- TO MAKE ETHYLENE OXIDE, WHICH IS THEN CHANGED INTO ETHYLENE GLYCOL (THE MAIN COMPONENT IN ANTI-FREEZE).



## OTHER PRODUCTIONS

- GLASS PRODUCTION.
- THE OXIDATION OF SILICON, ONE OF THE MOST CRITICAL PROCESSES IN ALL OF SEMICONDUCTOR MANUFACTURING.
- THE PULP AND PAPER INDUSTRY.
- PETROLEUM INDUSTRY.
- POWER GENERATION.