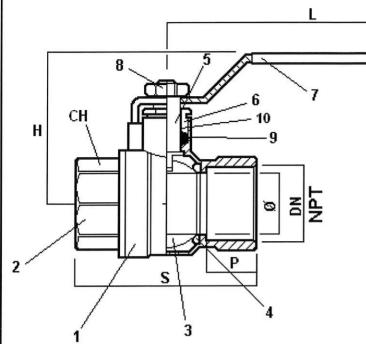


ART. 105 NPT

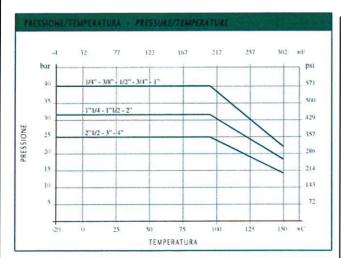




Ref.	Parts	Material	Q.ty
1	Body	EN12420-CW617N	1
2	Sleeve	EN12420-CW617N	1
3	Ball	EN12165-CW617N	1
4	Seat	P.T.F.E.	2
5	Stem	EN12164-CW614N	1
6	Nut	EN12164-CW614N	1
7	Lever	STEEL + PVC	1
8	Nut	ZINCKED STEEL	1
9	Gasket	P.T.F.E.	1
10	O-Ring	FP	1

DN	1/4"	3/8"	1/2"	3/4"	1"	1"1/4	1"1/2	2"	2"1/2	3"	4"
Ø	10	10	15	20	25	32	40	50	61	74	95
Р	12	12	16	17	19.5	21	21	22	27.5	30.5	38
S	45	45	60	67	80	89	98	112	140	159	196
Н	41	41	54	58	66	71	80	88	131	140	156
L	80	80	90	90	125	125	140	140	250	250	250
CH	21	21	26	31	38	48	55	68	85	99	125
Kw*	15	15	20	45	60	100	170	265	510	790	1230
PN	40			32			25				

^{*:} Kw factor



STANDARD VALVE FEATURES

FULL BORE BALL VALVE IN NICKEL PLATED BRASS. THREADED ENDS NPT F/F

- -Working temerature : MIN. -29°C / MAX. +150°C
- -Max pressure:
- 40 bar from 1/4" to 1";
- 32 bar from 1"1/4 to 2";
- 25 bar from 2"1/2 to 4".
- -Threaded ends: ANSI NPT B.1.20.1
- -Anti blow-out stem
- -Chromium plated ball

APPLICATIONS: The 105 NPT series are suitable for use in the hydraulic, sanitary, compressed air industries and are also suitables for hydrocarbons.

We don't assume the responsibility if you use products which are not consistent with the material used for the costruction of our valves.

To be used as a guide only, IDROSFER reserve the right to change these data without notice.

01/2018



INSTRUCTIONS

IST. DATA SHEET - 035 ING

Rev. 0

ASSEMBLY, USE AND MAINTENANCE INSTRUCTION

EQUIPMENT PRESSURE DESCRIPTION: TWO-WAY BALL VALVE, WITH BRASS BODY FLOATING BALL

USE

The intercepted fluid must be compatible with the construction materials of ball valve: brass, PTFE, PTFE reinforced carbographite, FPM, EPDM, NBR, FKM.

THE MAX PRESSURES IN ACCORDING TO THE WORKING TEMPERATURES ARE THE FOLLOWING:

* temperature °C	PN 25	PN 32	PN 40	Ball's tightness seats
 * -29 °C ÷ 150 °C	25 bar	32 bar	40 bar	PTFE

* MATERIAL RESISTENCE'S DATA

WARNING!

IT IS USEFUL TO EMPTY THE BALL VALVE AND THE SYSTEM COMPLETELY WHEN THE INTERCEPTED FLUID COULD SOLIDIFY AT TEMPERATURES LOWER THAN 0°C (FOR EX., WATER) AND INCREASE ITS VOLUME DAMAGING ITS SEALING.

ASSEMBLY

Before installing make sure the pipe into which the valve is screwed does not show impurities that may damage the ball and the seat tightness causing leaking.

To seal the threadings use a dope compatible with the intercepted fluid without exceeding to avoid unuseful efforts when assembling.

After installing make sure the valve does not undergo stresses due to an exceeding anchorage distance or to unparallel pipes, then, support the pipes with the proper clamps.



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IST. DATA SHEET - 035 ING

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The valve must be manoeuvred exclusively with the lever handle supplied with the kit without using any other supplementary lever handles.

Turn the lever handle by 90° clockwise to close the valve until it reaches its beat.

Turn the lever handle by 90° anticlockwise to open the valve until it reaches its beat.

The ball valve must always be fully open or fully closed.

Any intermediate position of the valve may cause long-lasting bucklings of the tightness seats which make the intercepted fluid leak.

To avoid water hammering on the pipes manoeuvre the valve by a gradual rotation.

When testing the systems never use pressures higher than the nominal pressure shown on the valves; that could buckle the seats and the gaskets and damage their sealing irremediably.

MAINTENANCE

Before take a valve apart, make sure that the pipe are not under pressure.

Every six months check the valve visually to verify there are no defects that may cause problems when using it and, if the case, replace it. Before acting on the valve make sure that the pipes are not under pressure. We are not responsible in case of tampering of our valves without our authorization, in this case the warranty expires.

WASTE DISPOSAL

After replacement of the valve, it must be disposed according to the laws (about the waste disposal) of the Country of destination.

The waste (disused valve) can also be identified as recyclable material.



IST. DATA SHEET - 035 ING

Rev. 0

LIST OF INCOMPATIBLE SUBSTANCES

Many chemical substances react in a dangerous way when they come in touch with others. Please find below a list of the main incompatible substances, by way of a non-limiting example.

Acetica cid with concentrated mixtures of sulphuric and nitric acid. Acetica cid with chromic acid, nitrica acid, hydroxyls, ethylene glycol, perchloric acid, peroxides and permanganates Chromic acid with acetic acid, naphthalene, camphor, alcohol, glycerol, turpentine and inflammable fluids with acetic acid, naphthalene, camphor, alcohol, glycerol, turpentine and inflammable fluids and substances that are promptly nitrated Oxalic acid with silver and mercury Perchloric acid with acetic anhydride, bismuth and its alloys, alcohol, paper, wood, fats and other organic substances Hydrogen sulphide with nitric acid and oxidants. Sulphuric acid with chlorates, perchlorates, permanganates and water. Alcohols and Polyols with nitric acid. Alcohols and Polyols with mirric acid. Alcohols and Polyols with mirric acid. Almonolum nitrate with acids, metal powders, sulphur, combustible materials Mix marcury, halogens, calcium hypochlorite and hydrogen fluoride with nitric acid and hydrogen peroxide with nitric acid and hydrogen peroxide with acetylene, oxalic acid, tartaric acid and ammonic compounds with any excluding agent calcium hypochlorite With ammonia, acetylene, butadene, bydrogen sulphide with all water. Chlorates With all mamonia, acetylene, butadene, butane, hydrogen, sodium carbide, turpentine and with all water with all water acids and sulphuric acid with all water acids and water acids and sulphuric acid Chlorates With all mamonia, acetylene, butadene, petrol and other by-products of oil, hydrogen, sodium carbide, turpentine and finely pulverized metals Chlorates With all mamonia, acetylene, butadene, petrol and other by-products of oil, hydrogen, sodium carbide, turpentine and finely pulverized metals Chlorates With all other chemical substances With all other chemical su	T TOGOTO TITLE DOTOTT OF HOTOT TITLE	e main incompatible substances, by way or a non-limiting example.
Acetica caid with concentrated mixtures of sulphuric and intric acid. Acetica caid with chromic acid, nitrica acid, hydroxyls, ethylene glycol, perchloric acid, peroxides and permanganates With acetic acid, naphthalene, camphor, alcohol, glycerol, turpentine and inflammable fluids with acetic, chromic and cyanogenic acid, aniline, carbon, hydrogen sulphide, fluids, gases and substances that are promptly intertated With acetic acid with silver and mercury Perchloric acid with silver and mercury Perchloric acid with acetic enhydride, bismuth and its alloys, alcohol, paper, wood, fats and other organic substances Sulphuric acid with inter acid and oxidants. Sulphuric acid with inter acid and oxidants. Sulphuric acid with inter acid. Alcohols and Polyols with inter acid. Alcohols and Polyols with inter acid. Annonium nitrate with acids, metal powders, sulphur, combustible materials with mercury, hologens, calcium hypochlorite and hydrogen fluoride with acetic enteriors and products, sulphur, combustible materials with acetic enteriors and products, sulphur, products and products, sulphur, with acetic enteriors, and acetic enterio		with copper (piping), halogens, silver, mercury and their compounds
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Substances With intirc acid and oxidants.	Oxalic acid	with silver and mercury
Sulphuric acid Mith chlorates, perchlorates, permanganates and water. Alcohols and Polyots With alcohols materials Alcohols Alco	Perchloric acid	
Alcohols and Polyols Alcohols and Polyols Almanonium nitrate Annydrous ammonia Ammonium nitrate Annydrous ammonia Ammonium nitrate Anniline With acids, metal powders, sulphur, combustible materials Anniline With nitric acid and hydrogen peroxide With acids, metal powders, sulphur, combustible materials Arsenic (materials containing) Arsenic (materials containing) Arsenic (materials containing) With any reducing agent With aufforce with ammonia, acetylene, phosphine, hydrogen sulphide Bromine With ammonia, acetylene, butadiene, butane, hydrogen, sodium carbide, turpentine and Activated carbon With all oxidizing agents, calcium hypochlorite With ammonia, acetylene, butadiene, petrol and other by-products of oil, hydrogen, sodium carbide, turpentine and finely pulverized metals Chlorafes With sodium and potassium Chloroform With sodium and potassium Chloromethane Chlorine dioxide Dichloromethane With sodium and potassium Chlorine With all other chemical substances With all, reducing agents With file, oxygen, alkali, reducing agents Hydrogen sulphate Undine With air, oxygen, alkali, reducing agents Hydrogen sulphate With initric acid vapours and oxidizing gasses With file with ammonia, methane, phosphine, hydrogen peroxide With acids, activated carbon With acids, activated ca		
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Ammonium nitrate with acids, metal powders, sulphur, combustible materials Aniline with nitric acid and hydrogen peroxide with acetylene, oxalic acid, tartaric acid and ammonic compounds with any reducing agent with ammonia, acetylene, butadiene, butane, hydrogen, sodium carbide, turpentine and Activated carbon with ammonia, acetylene, butadiene, butane, hydrogen, sodium carbide, turpentine and Activated carbon with all oxidizing agents, calcium hypochlorite with ammonia acetylene, butadiene, butane, hydrogen, sodium carbide, turpentine and Activated carbon with adds and alkali with ammonia acetylene, butadiene, butane, hydrogen, sodium carbide, turpentine and Chloriae Chlorine With ammonia, acetylene, butadiene, petrol and other by-products of oil, hydrogen, sodium carbide, turpentine and finely pulverized metals with suphuric acid With sulphuric acid With sulphuric acid With sulphuric acid With all other chemical substances With all, reducing agents Hydrogen sulphate With all, reducing agents Hydrogen sulphate With all other chemical substances With all, reducing agents Hydrogen sulphate With acetylene, butadiene, phosphine, hydrogen peroxide, nitric acid, sodium peroxide and halogens With acetylene, and ammonia Hydrogen sulphate With author, carbon dioxide, carbon dioxide, oardon tetrachloride, and other chlorinated hydrocarbons with acetylene, butadiene, beta chemical sulphuric acid With author, carbon dioxide, carbon dioxide, oardon	Alcohols and Polyols	
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Silver with acetylene, oxalic acid, tartaric acid and ammonic compounds Arsenic (materials containing with water. Chlorine dioxide with ammonia, acetylene, butadiene, butane, hydrogen, sodium carbide, turpentine and Activated carbon with all oxidizing agents, calcium hypochlorite Vyanides with ammonia, acetylene, butadiene, butane, hydrogen, sodium carbide, turpentine and Activated carbon with all oxidizing agents, calcium hypochlorite With ammonia salts, acids, metal powders, sulphur, finely pulverized organic and flammable compounds and carbon With ammonia, acetylene, butadiene, petrol and other by-products of oil, hydrogen, sodium carbide, turpentine and finely pulverized metals Chloroform with sodium and potassium Chlorine dioxide with sodium and potassium With sulphuric acid With sodium and potassium With sodium and potassium With sodium and potassium With sodium and potassium With in other chemical substances (White) phosphorus With ail other chemical substances (White) phosphorus With ail other chemical substances or flammable fluids, chlorates, nitric acid, sodium peroxide and halogens With acetylene, fulminic acid, hydrogen With ail other chemical substances, cancel substance, substance, substance, substance, substance, such as methanol, glacial acetic and, acetic anhydride, benzaldehyde, carbon dioxide, carbon diox	Ammonium nitrate	
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Chlorates Chlorine Chlorine Chlorine Chlorine Chlorine Chlorine Chlorides Chloride Chlo		
Chlorates compounds and carbon with ammonia, acetylene, butadiene, petrol and other by-products of oil, hydrogen, sodium carbide, turpentine and finely pulverized metals with sodium and potassium with sulphuric acid with sodium and potassium with all other chemical substances (White) phosphorus with all other chemical substances (White) phosphorus with ali other chemical substances (White) phosphorus with alir, oxygen, alkali, reducing agents Hydrogen sulphate with acid vapours and oxidizing gasses lodine with acetylene and ammonia with acetylene and ammonia with acetylene and ammonia with acetylene fulminic acid, hydrogen peroxide, nitric acid, sodium peroxide and halogens with acetylene, fulminic acid, hydrogen peroxide, nitric acid, sodium peroxide and halogens with acetylene, fulminic acid, hydrogen peroxide, nitric acid, sodium peroxide and halogens with acetylene, fulminic acid, hydrogen peroxide, nitric acid, sodium peroxide and halogens with acetylene, fulminic acid, hydrogen peroxide, nitric acid, sodium peroxide and halogens with acetylene, fulminic acid, hydrogen peroxide, nitric acid, sodium peroxide and halogens with acetylene, fulminic acid, hydrogen peroxide, nitrates, sulphur and finely pulverized organic substances or flammable fluids, chlorates, nitrates, sulphur and finely pulverized organic substances or flammable fluids, chlorates, nitrates, sulphur and finely pulverized organic substances or flammable fluids, solids and gasses with acids with water with inorganic bases, amines with increasic bases, amines with sulphuric acid and other acids. Potassium permanganate with sulphuric acid and other acids. Potassium permanganate with sulphuric acid and other acids. With arrow oxidizable substance, such as methanol, glacial acetic acid, acetic anhydride, benzaldehyde, carbon dioxide, water, chloroform, dichloromethane with acetylene, azide and hydrogen peroxide With acetylene, azide and hydrogen peroxide with acet	Cyanides	
Chlorine carbide, turpentine and finely pulverized metals Chloroform with sodium and potassium Chlorides with sudium and potassium Chlorine with sodium and potassium Chlorine dioxide with ammonia, methane, phosphine, hydrogen sulphide Fluorine with all other chemical substances (White) phosphorus with air, oxygen, alkali, reducing agents Hydrocarbons in general with fluorine, chlorine, formic acid, chromic acid, sodium peroxide Hydrogen sulphate with acid, activated carbon Hypochlorite with acids, activated carbon Flammable fluids Hypochlorite with acetylene and ammonia Hypochlorite with acetylene, fulminic acid, hydrogen peroxide, nitric acid, sodium peroxide and halogens with acetylene, fulminic acid, hydrogen peroxide, nitric acid, sodium peroxide and halogens with acetylene, fulminic acid, hydrogen Alkaline metals(e.g. calcium potassium, sodium) Ammonium nitrate organic substances or flammable fluids, chlorates, nitrates, sulphur and finely pulverized organic substances or flammable compounds Nitroparaffin with acids with acids Nitroparaffin with inorganic bases, amines Calcium oxide with water Oxygen with oils, fats, hydrogen, flammable fluids, solids and gasses Plotassium perchlorate with sulphuric acid and other acids. Potassium perchlorate with sulphuric acid and other acids. Potassium perchlorate with sulphuric acid and other acids. Potassium perchlorate with sulphuric acid and other acids. Sodium peroxide with carbon tetrachloride, carbon dioxide, water, chloroform, dichloromethane with ary oxidizable substance, such as methanol, glacial acetic acid, acetic anhydride, benzaldehyde, carbon dioxide, carbon dioxide, water, chloroform, dichloromethane with acetylene, azide and hydrogen peroxide with acetylene, azide and hydrogen peroxide with acetic and explosive compounds with metals with reducing agents Copper with acetylene, azide and hydrogen peroxide, water, chloroform, dichloromethane with lead, copper and other metals. This compound is usually employed as a preservative, but i forms unstable and	Chlorates	compounds and carbon
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Dichloromethane with sodium and potassium with ammonia, methane, phosphine, hydrogen sulphide Fluorine with all other chemical substances (White) phosphorus with air, oxygen, alkali, reducing agents Hydrogen sulphate with nitric acid vapours and oxidizing gasses lodine with actylene and ammonia Hypochlorite with actylene and ammonia Hypochlorite with actylene, fulminic acid, hydrogen peroxide, nitric acid, sodium peroxide and halogens Mercury with acetylene, fulminic acid, hydrogen peroxide, nitric acid, sodium peroxide and halogens Mercury with acetylene, fulminic acid, hydrogen Mitaline metals(e.g. calcium potassium sodium) Ammonium nitrate with acids Nitrites and Nitrates with acids Nitrites and Nitrates with acids Nitroparaffin with inorganic bases, amines Calcium oxide with water Oxygen with oils, fats, hydrogen, flammable fluids, solids and gasses Phosphorus pentoxide with water Potassium permanganate with glycerol, ethylene glycol, benzaldehyde and sulphuric acid Hydrogen peroxide with combustible materials, aniline and nitromethane Sodium peroxide with carbon tetrachloride, carbon dioxide, water, chloroform, dichloromethane with acidy opper and other metals. This compound is usually employed as a preservative, but if forms unstable and explosive compounds with metals With reducing agents With reducing agents		
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with acids, metal powders, flammable fluids, chlorates, nitrates, sulphur and finely pulverized organic substances or flammable compounds Nitrites and Nitrates Nitroparaffin Nitroparaffin Nitroparaffin Calcium oxide Oxygen With oils, fats, hydrogen, flammable fluids, solids and gasses Phosphorus pentoxide Potassium perchlorate Potassium permanganate Hydrogen peroxide Nith chromium, copper, iron, most other metals and their salts, flammable fluids and other combustible materials, aniline and nitromethane With any oxidizable substance, such as methanol, glacial acetic acid, acetic anhydride, benzaldehyde, carbon disulphide, glycerol, ethyl acetate and furfural. Potassium With carbon tetrachloride, carbon dioxide ,water, chloroform, dichloromethane With acetylene, azide and hydrogen peroxide Sodium With carbon tetrachloride, carbon dioxide ,water, chloroform, dichloromethane With lead, copper and other metals. This compound is usually employed as a preservative, but i forms unstable and explosive compounds with metals Selenium with reducing agents		
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Oxygen with oils, fats, hydrogen, flammable fluids, solids and gasses Phosphorus pentoxide with water Potassium perchlorate with sulphuric acid and other acids. Potassium permanganate with glycerol, ethylene glycol, benzaldehyde and sulphuric acid with chromium, copper, iron, most other metals and their salts, flammable fluids and other combustible materials, aniline and nitromethane Sodium peroxide with any oxidizable substance, such as methanol, glacial acetic acid, acetic anhydride, benzaldehyde, carbon disulphide, glycerol, ethyl acetate and furfural. With carbon tetrachloride, carbon dioxide ,water, chloroform, dichloromethane with acetylene, azide and hydrogen peroxide Sodium with carbon tetrachloride, carbon dioxide ,water, chloroform, dichloromethane with lead, copper and other metals. This compound is usually employed as a preservative, but i forms unstable and explosive compounds with metals With reducing agents	Nitroparaffin	with inorganic bases, amines
Phosphorus pentoxide with water Potassium perchlorate with sulphuric acid and other acids. Potassium permanganate with glycerol, ethylene glycol, benzaldehyde and sulphuric acid with chromium, copper, iron, most other metals and their salts, flammable fluids and other combustible materials, aniline and nitromethane with any oxidizable substance, such as methanol, glacial acetic acid, acetic anhydride, benzaldehyde, carbon disulphide, glycerol, ethyl acetate and furfural. Potassium with carbon tetrachloride, carbon dioxide ,water, chloroform, dichloromethane with acetylene, azide and hydrogen peroxide Sodium with carbon tetrachloride, carbon dioxide ,water, chloroform, dichloromethane with lead, copper and other metals. This compound is usually employed as a preservative, but if forms unstable and explosive compounds with metals Selenium with reducing agents	Calcium oxide	with water
Potassium perchlorate with sulphuric acid and other acids. Potassium permanganate with glycerol, ethylene glycol, benzaldehyde and sulphuric acid with chromium, copper, iron, most other metals and their salts, flammable fluids and other combustible materials, aniline and nitromethane with any oxidizable substance, such as methanol, glacial acetic acid, acetic anhydride, benzaldehyde, carbon disulphide, glycerol, ethyl acetate and furfural. Potassium with carbon tetrachloride, carbon dioxide ,water, chloroform, dichloromethane with acetylene, azide and hydrogen peroxide Sodium with carbon tetrachloride, carbon dioxide ,water, chloroform, dichloromethane with lead, copper and other metals. This compound is usually employed as a preservative, but if forms unstable and explosive compounds with metals Selenium with reducing agents	Oxygen	with oils, fats, hydrogen, flammable fluids, solids and gasses
Potassium perchlorate with sulphuric acid and other acids. Potassium permanganate with glycerol, ethylene glycol, benzaldehyde and sulphuric acid with chromium, copper, iron, most other metals and their salts, flammable fluids and other combustible materials, aniline and nitromethane with any oxidizable substance, such as methanol, glacial acetic acid, acetic anhydride, benzaldehyde, carbon disulphide, glycerol, ethyl acetate and furfural. Potassium with carbon tetrachloride, carbon dioxide ,water, chloroform, dichloromethane with acetylene, azide and hydrogen peroxide Sodium with carbon tetrachloride, carbon dioxide ,water, chloroform, dichloromethane with lead, copper and other metals. This compound is usually employed as a preservative, but if forms unstable and explosive compounds with metals Selenium with reducing agents	Phosphorus pentoxide	with water
with chromium, copper, iron, most other metals and their salts, flammable fluids and other combustible materials, aniline and nitromethane with any oxidizable substance, such as methanol, glacial acetic acid, acetic anhydride, benzaldehyde, carbon disulphide, glycerol, ethyl acetate and furfural. Potassium with carbon tetrachloride, carbon dioxide "water, chloroform, dichloromethane with acetylene, azide and hydrogen peroxide Sodium with carbon tetrachloride, carbon dioxide "water, chloroform, dichloromethane with lead, copper and other metals. This compound is usually employed as a preservative, but i forms unstable and explosive compounds with metals Selenium with reducing agents		with sulphuric acid and other acids.
with chromium, copper, iron, most other metals and their salts, flammable fluids and other combustible materials, aniline and nitromethane with any oxidizable substance, such as methanol, glacial acetic acid, acetic anhydride, benzaldehyde, carbon disulphide, glycerol, ethyl acetate and furfural. Potassium with carbon tetrachloride, carbon dioxide "water, chloroform, dichloromethane with acetylene, azide and hydrogen peroxide Sodium with carbon tetrachloride, carbon dioxide "water, chloroform, dichloromethane with lead, copper and other metals. This compound is usually employed as a preservative, but i forms unstable and explosive compounds with metals Selenium with reducing agents	Potassium permanganate	
Sodium peroxide benzaldehyde, carbon disulphide, glycerol, ethyl acetate and furfural. Potassium with carbon tetrachloride, carbon dioxide ,water, chloroform, dichloromethane Copper with acetylene, azide and hydrogen peroxide Sodium with carbon tetrachloride, carbon dioxide ,water, chloroform, dichloromethane with lead, copper and other metals. This compound is usually employed as a preservative, but i forms unstable and explosive compounds with metals Selenium with reducing agents	Hydrogen peroxide	other combustible materials, aniline and nitromethane
Potassium with carbon tetrachloride, carbon dioxide ,water, chloroform, dichloromethane Copper with acetylene, azide and hydrogen peroxide Sodium with carbon tetrachloride, carbon dioxide ,water, chloroform, dichloromethane with lead, copper and other metals. This compound is usually employed as a preservative, but i forms unstable and explosive compounds with metals Selenium with reducing agents	Sodium peroxide	
Sodium with carbon tetrachloride, carbon dioxide ,water, chloroform, dichloromethane with lead, copper and other metals. This compound is usually employed as a preservative, but i forms unstable and explosive compounds with metals Selenium with reducing agents	Potassium	
Sodium with carbon tetrachloride, carbon dioxide ,water, chloroform, dichloromethane with lead, copper and other metals. This compound is usually employed as a preservative, but i forms unstable and explosive compounds with metals Selenium with reducing agents	Copper	with acetylene, azide and hydrogen peroxide
with lead, copper and other metals. This compound is usually employed as a preservative, but i forms unstable and explosive compounds with metals Selenium with reducing agents		with carbon tetrachloride, carbon dioxide ,water, chloroform, dichloromethane
	Sodium azide	with lead, copper and other metals. This compound is usually employed as a preservative, but it forms unstable and explosive compounds with metals
Sulphides with strong acids	Selenium	with reducing agents
	Sulphides	with strong acids
Carbon tetrachloride Sodium, potassium	Carbon tetrachloride	Sodium, potassium