

# EXPLOSION PROOF REDUCERS AND ADAPTORS

Explosion Proof Electrical Equipment



Ex Conduit fittings

**Installation:** hazardous areas - Zone 1 / 2 (Gases) - Zone 21 / 22 (Dusts)  
**Classification:** Group II - Category 2G 2D

## RE - REB - REM - REN



GOST-R  
RTR Ex Proof



|                     | REDUCERS - ADAPTORS   |  |   |
|---------------------|---|--|---|
|                     | ATEX 94/9/EC  | GOST-R (RTR / RTN)   | GOST-K  |
| EXECUTION           | Ⓜ II 2 G Ex d IIC<br>Ⓜ II 2 G Ex e II<br>Ⓜ II 2 D Ex tD A21   | Ex d IIC U<br>DIP A21  | Ex d IIC U<br>DIP A21                                       |
| INSTALLATION        | ZONE 1 / 2 - ZONE 21 / 22                                     | ZONE 1 / 2 - ZONE 21 / 22  | ZONE 1 / 2 - ZONE 21 / 22                                   |
| PROTECTION DEGREE   | IP66  | IP66   | IP66  |
| CERTIFICATE REF.    | LOM 06 ATEX 3079U   | POCC IT. ГБ05.В02537   | No. 07/43-269   |
| RULES OF COMPLIANCE | EN 60079-0; EN 60079-1; EN 60079-7;<br>EN 61241-0; EN 61241-1 | ГОСТ P 51330.9-99 (МЭК 60079-10-95)<br>ГОСТ P 51330.13-99 (МЭК 60079-14-96)<br>ГОСТ P МЭК 61241-3-99 | ГОСТ P 51330.0 / 1 / 8 / 14-99<br>ГОСТ P МЭК 61241-1-1-2002 |

### Mechanical characteristics

|                    |   |
|--------------------|---|
| Reducers materials | galvanized steel (AZ)   |
| Adaptors materials | OT-58 marine brass (OT) - nichel plated brass (ON) - - AISI-316L stainless steel (IX) - galvanized steel (AZ) |
| Finishes           | full nickel plating threatment (brass material only)  |
| Gasket             | silicon rubber EPDM / NYLON   |

### APPLICATIONS

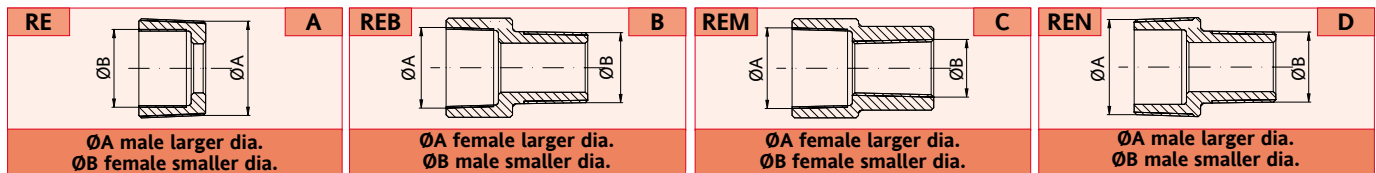
- EXPLOSION PROOF REDUCER AND ADAPTORS ARE USED TO CONNECT VARIOUS EQUIPMENT: ENCLOSURES, LIGHTING FIXTURES, JUNCTION AND PULLING BOXES ECT. OF DIFFERENT DIAMETERS AND THREADS

### ON REQUEST ACCESSORIES:

- Different threads from standard
- Different materials from standard
- Silicon Rubber Gaskets

# REDUCERS – Technical Features

| RING REDUCERS – RE |         |           |      | REDUCERS BUSHING – REB |         |           |      | REDUCERS COUPLING – REM |           |           |      | REDUCERS NIPPLE – REN |         |         |      |
|--------------------|---------|-----------|------|------------------------|---------|-----------|------|-------------------------|-----------|-----------|------|-----------------------|---------|---------|------|
| TYPE               | ØA MALE | ØB FEMALE | DET. | TYPE                   | ØA MALE | ØB FEMALE | DET. | TYPE                    | ØA FEMALE | ØB FEMALE | DET. | TYPE                  | ØA MALE | ØB MALE | DET. |
| RE21               | 3/4"    | 1/2"      | A    | REB21                  | 1/2"    | 3/4"      | B    | REM21                   | 3/4"      | 1/2"      | C    | REN21                 | 3/4"    | 1/2"    | D    |
| RE31               | 1"      | 1/2"      | A    | REB31                  | 1/2"    | 1"        | B    | REM31                   | 1"        | 1/2"      | C    | REN31                 | 1"      | 1/2"    | D    |
| RE32               | 1"      | 3/4"      | A    | REB32                  | 3/4"    | 1"        | B    | REM32                   | 1"        | 3/4"      | C    | REN32                 | 1"      | 3/4"    | D    |
| RE41               | 1-1/4"  | 1/2"      | A    | REB41                  | 1/2"    | 1-1/4"    | B    | REM41                   | 1-1/4"    | 1/2"      | C    | REN41                 | 1-1/4"  | 1/2"    | D    |
| RE42               | 1-1/4"  | 3/4"      | A    | REB42                  | 3/4"    | 1-1/4"    | B    | REM42                   | 1-1/4"    | 3/4"      | C    | REN42                 | 1-1/4"  | 3/4"    | D    |
| RE43               | 1-1/4"  | 1"        | A    | REB43                  | 1"      | 1-1/4"    | B    | REM43                   | 1-1/4"    | 1"        | C    | REN43                 | 1-1/4"  | 1"      | D    |
| RE51               | 1-1/2"  | 1/2"      | A    | REB51                  | 1/2"    | 1-1/2"    | B    | REM51                   | 1-1/2"    | 1/2"      | C    | REN51                 | 1-1/2"  | 1/2"    | D    |
| RE52               | 1-1/2"  | 3/4"      | A    | REB52                  | 3/4"    | 1-1/2"    | B    | REM52                   | 1-1/2"    | 3/4"      | C    | REN52                 | 1-1/2"  | 3/4"    | D    |
| RE53               | 1-1/2"  | 1"        | A    | REB53                  | 1"      | 1-1/2"    | B    | REM53                   | 1-1/2"    | 1"        | C    | REN53                 | 1-1/2"  | 1"      | D    |
| RE54               | 1-1/2"  | 1-1/4"    | A    | REB54                  | 1-1/4"  | 1-1/2"    | B    | REM54                   | 1-1/2"    | 1-1/4"    | C    | REN54                 | 1-1/2"  | 1-1/4"  | D    |
| RE61               | 2"      | 1/2"      | A    | REB61                  | 1/2"    | 2"        | B    | REM61                   | 2"        | 1/2"      | C    | REN61                 | 2"      | 1/2"    | D    |
| RE62               | 2"      | 3/4"      | A    | REB62                  | 3/4"    | 2"        | B    | REM62                   | 2"        | 3/4"      | C    | REN62                 | 2"      | 3/4"    | D    |
| RE63               | 2"      | 1"        | A    | REB63                  | 1"      | 2"        | B    | REM63                   | 2"        | 1"        | C    | REN63                 | 2"      | 1"      | D    |
| RE64               | 2"      | 1-1/4"    | A    | REB64                  | 1-1/4"  | 2"        | B    | REM64                   | 2"        | 1-1/4"    | C    | REN64                 | 2"      | 1-1/4"  | D    |
| RE65               | 2"      | 1-1/2"    | A    | REB65                  | 1-1/2"  | 2"        | B    | REM65                   | 2"        | 1-1/2"    | C    | REN65                 | 2"      | 1-1/2"  | D    |
| RE71               | 2-1/2"  | 1/2"      | A    | REB71                  | 1/2"    | 2-1/2"    | B    | REM71                   | 2-1/2"    | 1/2"      | C    | REN71                 | 2-1/2"  | 1/2"    | D    |
| RE72               | 2-1/2"  | 3/4"      | A    | REB72                  | 3/4"    | 2-1/2"    | B    | REM72                   | 2-1/2"    | 3/4"      | C    | REN72                 | 2-1/2"  | 3/4"    | D    |
| RE73               | 2-1/2"  | 1"        | A    | REB73                  | 1"      | 2-1/2"    | B    | REM73                   | 2-1/2"    | 1"        | C    | REN73                 | 2-1/2"  | 1"      | D    |
| RE74               | 2-1/2"  | 1-1/4"    | A    | REB74                  | 1-1/4"  | 2-1/2"    | B    | REM74                   | 2-1/2"    | 1-1/4"    | C    | REN74                 | 2-1/2"  | 1-1/4"  | D    |
| RE75               | 2-1/2"  | 1-1/2"    | A    | REB75                  | 1-1/2"  | 2-1/2"    | B    | REM75                   | 2-1/2"    | 1-1/2"    | C    | REN75                 | 2-1/2"  | 1-1/2"  | D    |
| RE76               | 2-1/2"  | 2"        | A    | REB76                  | 2"      | 2-1/2"    | B    | REM76                   | 2-1/2"    | 2"        | C    | REN76                 | 2-1/2"  | 2"      | D    |
| RE81               | 3"      | 1/2"      | A    | REB81                  | 1/2"    | 3"        | B    | REM81                   | 3"        | 1/2"      | C    | REN81                 | 3"      | 1/2"    | D    |
| RE82               | 3"      | 3/4"      | A    | REB82                  | 3/4"    | 3"        | B    | REM82                   | 3"        | 3/4"      | C    | REN82                 | 3"      | 3/4"    | D    |
| RE83               | 3"      | 1"        | A    | REB83                  | 1"      | 3"        | B    | REM83                   | 3"        | 1"        | C    | REN83                 | 3"      | 1"      | D    |
| RE84               | 3"      | 1-1/4"    | A    | REB84                  | 1-1/4"  | 3"        | B    | REM84                   | 3"        | 1-1/4"    | C    | REN84                 | 3"      | 1-1/4"  | D    |
| RE85               | 3"      | 1-1/2"    | A    | REB85                  | 1-1/2"  | 3"        | B    | REM85                   | 3"        | 1-1/2"    | C    | REN85                 | 3"      | 1-1/2"  | D    |
| RE86               | 3"      | 2"        | A    | REB86                  | 2"      | 3"        | B    | REM86                   | 3"        | 2"        | C    | REN86                 | 3"      | 2"      | D    |
| RE87               | 3"      | 2-1/2"    | A    | REB87                  | 2-1/2"  | 3"        | B    | REM87                   | 3"        | 2-1/2"    | C    | REN87                 | 3"      | 2-1/2"  | D    |



| Identification adaptors selection table                          |  |  |  |  |  |
|--|--|--|--|--|--|
| SIZE LARGER DIAMETER   |  |  |  |  |  |
| 02 / 03 / 04 / 05 / 06 / 06 / 07 / 08                            |  |  |  |  |  |
| LARGER DIA. TYPE OF THREAD                                       |  |  |  |  |  |
| K (UNI 6125-74), P(PG), N (NPT), G (ISO 228), M (ISO-metric)     |  |  |  |  |  |
| SIZE SMALLER DIAMETER  |  |  |  |  |  |
| 01/ 02 / 03 / 04 / 05 / 06 / 06 / 07                             |  |  |  |  |  |
| SMALLER DIA. TYPE OF THREAD                                      |  |  |  |  |  |
| K (UNI 6125-74), P(PG), N (NPT), G (ISO 228), M (ISO-metric)     |  |  |  |  |  |
| MATERIALS  |  |  |  |  |  |
| IX (stainless steel), ON (nikel plated brass), OT (marine brass) |  |  |  |  |  |

|           | TYPE | SIZE LARGER DIAMETER | THREAD | SIZE SMALLER DIAMETER | THREAD | MATERIAL |
|-----------|------|----------------------|--------|-----------------------|--------|----------|
| EXAMPLE 1 | RE   | 02                   | K      | 01                    | G      | ON       |
| EXAMPLE 2 | REB  | 03                   | N      | -                     | M40    | IX       |

EXAMPLE 1: RE02K01GON= RUDUCER TYPE RE MALE 3/4" 6125 - FEMALE 1/2" ISO228 NIKEL PLATED BRASS  
 EXAMPLE 2: REB03NM40IX=REDUCER TYPE REB MALE 1"NPT - FEMALE M40 STAINLESS STEEL

**REMARK:** Due to the development of the national and international specifications and of the technology, the above technical characteristics showed on this bulletin can be considered as binding on our confirmation only.