



# RIFENG GAS SIZING CHARTS

(Natural Gas only) NATURAL GAS flow through PE-X/AL/PE-X Composite Pipe Crimped Fittings (MJ/h) Pressure Drop of 0.75 kPa (Metre Pressure 1.1kPa) Fitting Allowance (M)

| Length of run (M) | 2    | 4    | 6    | 8    | 10   | 12   | 14   | 16   | 18   | 20   | 25  | 30  | 35  | 40  | 45  | 50  | 55  | 60  | 65  | 70  | 75  | 80  | 85  | 90  | 95  | 100 | Correction(+) | M   |
|-------------------|------|------|------|------|------|------|------|------|------|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|---------------|-----|
| Pipe Size 16      | 84   | 57   | 45   | 38   | 37   | 36   | 34   | 30   | 27   | 24   | 19  | 16  | 14  | 12  | 11  | 10  | 9   | 8   | /   | /   | /   | /   | /   | /   | /   | /   | /             | 1.3 |
| 20                | 158  | 106  | 84   | 72   | 63   | 57   | 52   | 48   | 45   | 43   | 41  | 40  | 35  | 30  | 27  | 24  | 22  | 20  | 18  | 17  | /   | /   | /   | /   | /   | /   | /             | 1.2 |
| 25                | 314  | 211  | 167  | 142  | 125  | 113  | 103  | 96   | 89   | 84   | 79  | 75  | 71  | 68  | 64  | 62  | 60  | 58  | 54  | 50  | 48  | 46  | 45  | 45  | 44  | 44  | 0.5           |     |
| 32                | 602  | 405  | 322  | 273  | 240  | 216  | 198  | 184  | 172  | 162  | 142 | 128 | 117 | 109 | 102 | 98  | 95  | 89  | 85  | 83  | 80  | 78  | 76  | 74  | 73  | 71  | 0.6           |     |
| 40                | 985  | 663  | 526  | 446  | 393  | 354  | 324  | 300  | 281  | 264  | 233 | 210 | 192 | 178 | 166 | 157 | 150 | 141 | 136 | 131 | 126 | 121 | 117 | 113 | 110 | 107 | 0.9           |     |
| 50                | 1900 | 1278 | 1014 | 860  | 757  | 682  | 625  | 579  | 541  | 510  | 449 | 404 | 370 | 343 | 321 | 302 | 285 | 272 | 256 | 248 | 238 | 229 | 221 | 214 | 207 | 201 | n/a           |     |
| 60                | 3691 | 2505 | 1994 | 1696 | 1495 | 1349 | 1236 | 1146 | 1072 | 1010 | 889 | 802 | 734 | 680 | 636 | 589 | 567 | 539 | 515 | 494 | 474 | 457 | 452 | 427 | 414 | 402 | n/a           |     |

(Natural Gas only) NATURAL GAS flow through PE-X/AL/PE-X Composite Pipe Crimped Fittings (MJ/h) Pressure Drop of 0.75 kPa (Metre Pressure 2.75kPa)

| Length of run (M) | 2     | 4    | 6    | 8    | 10   | 12   | 14   | 16   | 18   | 20   | 25   | 30   | 35   | 40   | 45   | 50   | 55   | 60   | 65   | 70   | 75   | 80   | 85   | 90   | 95   | 100  | Correction(+) | M |
|-------------------|-------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|---------------|---|
| Pipe Size 16      | 315   | 214  | 168  | 142  | 125  | 113  | 103  | 96   | 90   | 84   | 74   | 67   | 61   | 57   | 53   | 50   | 47   | 45   | 42   | 41   | 39   | 37   | 36   | 35   | 34   | 33   | 1.7           |   |
| 20                | 589   | 396  | 314  | 267  | 235  | 212  | 194  | 179  | 168  | 158  | 139  | 125  | 115  | 106  | 99   | 94   | 88   | 84   | 80   | 77   | 74   | 71   | 69   | 67   | 65   | 63   | 1.4           |   |
| 25                | 1169  | 787  | 624  | 530  | 466  | 420  | 385  | 356  | 333  | 314  | 276  | 249  | 228  | 211  | 197  | 186  | 181  | 178  | 167  | 157  | 151  | 146  | 141  | 137  | 133  | 128  | 0.8           |   |
| 32                | 2246  | 1511 | 1199 | 1017 | 895  | 807  | 739  | 684  | 640  | 602  | 530  | 478  | 438  | 405  | 379  | 357  | 340  | 335  | 329  | 321  | 309  | 298  | 287  | 278  | 270  | 262  | 0.6           |   |
| 40                | 3671  | 2470 | 1960 | 1662 | 1463 | 1319 | 1207 | 1119 | 1046 | 985  | 867  | 781  | 715  | 663  | 620  | 583  | 555  | 526  | 505  | 484  | 466  | 449  | 434  | 420  | 408  | 396  | n/a           |   |
| 50                | 7082  | 4766 | 3780 | 3207 | 2823 | 2544 | 2329 | 2158 | 2018 | 1900 | 1672 | 1507 | 1380 | 1278 | 1195 | 1125 | 1027 | 1014 | 936  | 897  | 863  | 804  | 778  | 756  | 734  | 704  | n/a           |   |
| 63                | 13362 | 8995 | 7125 | 6040 | 5313 | 4784 | 4379 | 4055 | 3806 | 3586 | 3172 | 2878 | 2645 | 2452 | 2286 | 2156 | 2043 | 1946 | 1860 | 1784 | 1716 | 1654 | 1599 | 1548 | 1503 | 1459 | n/a           |   |

(LP Gas only) LP Gas flow through PE-X/AL/PE-X Composite Pipe Crimped Fittings (MJ/h) Pressure Drop of 0.250 kPa (Supply Pressure 2.75kPa - 5.0kPa)

| Length of run (M) | 2     | 4     | 6    | 8    | 10   | 12   | 14   | 16   | 18   | 20   | 25   | 30   | 35   | 40   | 45   | 50   | 55   | 60   | 65   | 70   | 75   | 80   | 85   | 90   | 95   | 100  | Correction(+) | M |
|-------------------|-------|-------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|---------------|---|
| Pipe Size 16      | 448   | 303   | 241  | 204  | 180  | 162  | 148  | 137  | 128  | 116  | 106  | 95   | 88   | 81   | 76   | 71   | 67   | 64   | 61   | 58   | 56   | 54   | 52   | 50   | 48   | 47   | 1.7           |   |
| 20                | 847   | 574   | 457  | 388  | 342  | 308  | 282  | 262  | 245  | 229  | 203  | 182  | 167  | 155  | 144  | 136  | 129  | 123  | 117  | 112  | 107  | 104  | 100  | 96   | 94   | 91   | 1.4           |   |
| 25                | 1721  | 1169  | 931  | 792  | 699  | 631  | 578  | 536  | 501  | 473  | 416  | 375  | 343  | 318  | 298  | 280  | 265  | 252  | 241  | 231  | 222  | 214  | 206  | 200  | 192  | 188  | 0.8           |   |
| 32                | 3463  | 2358  | 1881 | 1602 | 1414 | 1276 | 1171 | 1086 | 1016 | 963  | 844  | 762  | 698  | 647  | 606  | 570  | 540  | 514  | 491  | 471  | 453  | 436  | 421  | 408  | 396  | 384  | 0.6           |   |
| 40                | 4921  | 3354  | 2677 | 2281 | 2014 | 1819 | 1669 | 1548 | 1449 | 1366 | 1205 | 1087 | 997  | 924  | 865  | 815  | 772  | 735  | 702  | 673  | 647  | 624  | 603  | 583  | 566  | 550  | n/a           |   |
| 50                | 9076  | 6197  | 4952 | 4222 | 3730 | 3370 | 3093 | 2871 | 1688 | 2534 | 2237 | 2020 | 1852 | 1719 | 1608 | 1516 | 1436 | 1368 | 1307 | 1254 | 1206 | 1162 | 1124 | 1088 | 1055 | 1024 | n/a           |   |
| 63                | 17719 | 12118 | 9694 | 8271 | 7311 | 6609 | 6068 | 5634 | 5277 | 4977 | 4396 | 3971 | 3645 | 3381 | 3166 | 2985 | 2830 | 2694 | 2566 | 2472 | 2378 | 2293 | 2216 | 2146 | 2084 | 2022 | n/a           |   |

(LP Gas only) LP Gas flow through PE-X/AL/PE-X Composite Pipe Crimped Fittings (MJ/h) Pressure Drop of 10.0kPa (Metre Pressure -40.0kPa -70.0kPa)

| Length of run (M) | 2      | 4     | 6     | 8     | 10    | 12    | 14    | 16    | 18    | 20    | 25    | 30    | 35    | 40    | 45    | 50    | 55    | 60    | 65    | 70    | 75    | 80    | 85    | 90    | 95    | 100   | Correction(+) | M |
|-------------------|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|---------------|---|
| Pipe Size 16      | 2805   | 1968  | 1597  | 1377  | 1226  | 1115  | 1029  | 959   | 903   | 854   | 759   | 689   | 635   | 592   | 556   | 525   | 499   | 477   | 457   | 439   | 423   | 408   | 395   | 383   | 372   | 361   | 1.7           |   |
| 20                | 6188   | 4347  | 3531  | 3045  | 2714  | 2470  | 2280  | 2127  | 2001  | 1894  | 1685  | 1533  | 1413  | 1316  | 1237  | 1171  | 1112  | 1063  | 1018  | 979   | 943   | 911   | 882   | 855   | 830   | 809   | 1.4           |   |
| 25                | 11467  | 8060  | 6582  | 5654  | 5042  | 4590  | 4239  | 3955  | 3721  | 3523  | 3137  | 2853  | 2632  | 2454  | 2306  | 2182  | 2075  | 1983  | 1900  | 1827  | 1762  | 1702  | 1649  | 1599  | 1552  | 1512  | 0.8           |   |
| 32                | 24003  | 16887 | 13737 | 11860 | 10579 | 9635  | 8901  | 8309  | 7820  | 7406  | 6598  | 6003  | 5541  | 5168  | 4860  | 4599  | 4375  | 4181  | 4008  | 3855  | 3718  | 3593  | 3481  | 3377  | 3280  | 3194  | 0.6           |   |
| 40                | 35937  | 25294 | 20582 | 17774 | 15885 | 14445 | 13347 | 12463 | 11730 | 11110 | 9903  | 9010  | 8319  | 7761  | 7299  | 6910  | 6574  | 6283  | 6024  | 5795  | 5589  | 5403  | 5233  | 5078  | 4936  | 4804  | n/a           |   |
| 50                | 66663  | 46949 | 38219 | 33016 | 29467 | 26847 | 24813 | 23174 | 21816 | 20667 | 18427 | 16775 | 15491 | 14457 | 13601 | 12878 | 12256 | 11713 | 11235 | 10809 | 10427 | 10081 | 9766  | 9478  | 9252  | 8969  | n/a           |   |
| 63                | 131992 | 92961 | 75706 | 65422 | 58407 | 53229 | 49206 | 45963 | 43279 | 41008 | 36578 | 33309 | 30771 | 28726 | 27032 | 25600 | 24369 | 23295 | 22348 | 21505 | 20748 | 20063 | 19440 | 18871 | 18364 | 17862 | n/a           |   |



# Pipe sizing instructions

**All gas installations must be sized correctly to obtain the required flow, even when the system is under load.**

- 1/ Calculate the total MJ/hr the total load of all appliances running simultaneously.
- 2/ Calculate the pipe path drawing the largest load and also calculate the length in meters of that run.
- 3/ Reference the appropriate Rifeng Gas sizing chart (eg.natural gas with the correct pressure drop or L.P.G) .
- 4/ Reference the equal or greater meters value from step 2 along the top of the appropriate sizing chart, then find the equal or greater MJ/h rating in the vertical column under the identified meters.
- 5/ Count the number of fittings to be used in the longest run and multiply the number of fittings by the meters value on the far right column horizontal to your maximum MJ/h rating already identified as per step 3.
- 6/ Add the fittings value to the longest run value in step 2 to reach an increased meter value and recalculate the pipe size starting at step 3. Identify the correct pipe size in the far right hand column.
- 7/ Calculate each addition pipe run using the column identified in step 4.

## Handling, Storage and Installation.

- UV radiation can damage plastic pipes, do not allow SPK-Rifeng pipes to be exposed to direct sunlight either before or after installation.
- Always protect pipes and fittings from damage either during transportation or storage, check pipes and fittings for damage before installation.
- All SPK – Rifeng pipes may be installed underground, in concrete or under buildings in a continuous run and without joints or fittings accordance with the building code.
- Test SPK – Rifeng Gas systems at 3 x working pressure and in accordance with the NZ Gas code, check crimps visually. Crimps should also be checked with a go-no-go gauge.
- SPK – Rifeng Gas systems should always be installed by or under the supervision of a Craftsman Gasfitter.
- SPK – Rifeng Gas pipe and fittings are rated for a maximum pressure of 400kPa and a maximum temperature of 40°C.
- Ensure SPK – Rifeng Gas pipes are protected from harmful conditions or situations including attack from rodents.

**Please contact SPK industries or [www.spk.co.nz](http://www.spk.co.nz) for a full list of Rifeng Tooling**



# About SPK-Rifeng Gas

Rifeng Gas systems are New Zealand's most popular multilayer gas system. The multilayer pipe has an inner layer of aluminium with Pex either side making it a flexible, strong and oxygen impermeable conduit for both Natural Gas and LPG.

SPK – Rifeng Gas boasts the largest range of fittings on the market with sizes from 16mm OD to 50mm OD and is easy to install with an easy to crimp high quality Stainless steel crimp ring. For extra safety all SPK – Rifeng fittings have a double O Rings on each insertion barb, ensuring a gas tight seal every time.

SPK- Rifeng Gas systems carry SAI Global certification AS4176 Standards mark and SGS certification also.

SPK – Rifeng gas systems carry a 25 year warranty and have a service life of 50 years +

## Gas Pipe

| DIAMETER | WALL   | LENGTH | & Code  |
|----------|--------|--------|---------|
| 16mm     | 2.0mm  | 5m     | RG16-5M |
| 20mm     | 2.25mm | 5m     | RG20-5M |
| 25mm     | 2.5mm  | 5m     | RG25-5M |
| 32mm     | 3.0mm  | 5m     | RG32-5M |
| 40mm     | 4.0mm  | 5m     | RG40-5M |
| 50mm     | 4.5mm  | 5m     | RG50-5M |



## Dedicated Nickel Plated Brass Gas Fittings

Most multipurpose fittings for Water & Gas sizes 16mm - 32mm are listed on pages 7 & 8.

Below are dedicated Gas fittings 16 - 50mm not usually used for plumbing applications.

The total range of Gas fittings are drawn from both selections.

| COUPLINGS         |                                      | ELBOWS - FEMALE                    |                                       |
|-------------------|--------------------------------------|------------------------------------|---------------------------------------|
| RSC40             | RIFENG STRAIGHT COUPLING 40MM        | RFE4040                            | RIFENG FEMALE ELBOW 40MM - 1 1/2"     |
| RSC50             | RIFENG STRAIGHT COUPLING 50MM        | RFE5040                            | RIFENG FEMALE ELBOW 50MM - 1 1/2"     |
| REDUCING COUPLING |                                      | ELBOWS - MALE                      |                                       |
| RRC3216           | RIFENG REDUCING COUPLING 32MM X 16MM | RME4025                            | RIFENG MALE ELBOW 40MM - 1"           |
| RRC3220           | RIFENG REDUCING COUPLING 32MM X 20MM | RME1620                            | RIFENG MALE ELBOW 16MM - 3/4"         |
| RRC4025           | RIFENG REDUCING COUP 40X25MM         | RME2020                            | RIFENG MALE ELBOW 20MM - 3/4"         |
| RRC4032           | RIFENG REDUCING COUP40X32MM          | RME2520                            | RIFENG MALE ELBOW 25MM - 3/4"         |
| RRC5040           | RIFENG REDUCING COUP 50X40MM         | RME2525                            | RIFENG MALE ELBOW 25MM - 1"           |
| FEMALE COUPLINGS  |                                      | RME3225                            | RIFENG MALE ELBOW 32MM - 1"           |
| RFC1620           | RIFENG FEMALE COUPLING 16MM X 3/4'   | RME3232                            | RIFENG MALE ELBOW 32MM - 1 1/4'       |
| RFC1625           | RIFENG FEMALE COUPLING 16MM X 1'     | RME5040                            | RIFENG MALE ELBOW 50MM - 1 1/2"       |
| RFC2025           | RIFENG FEMALE COUPLING 20MM X 1'     |                                    |                                       |
| RFC2515           | RIFENG FEMALE COUPLING 25MM X 1/2'   | RT40                               | RIFENG TEE 40MM                       |
| RFC2520           | RIFENG FEMALE COUPLING 25MM X 3/4'   | RT50                               | RIFENG TEE 50MM                       |
| RFC3220           | RIFENG FEMALE COUPLING 32MM X 3/4'   | REDUCING TEE - (SIDE/ BRANCH/SIDE) |                                       |
| RFC3225           | RIFENG FEMALE COUPLING 32MM X 25MM   | RRT162016                          | RIFENG REDUCING TEE 16/20/16MM        |
| RFC3232           | RIFENG FEMALE COUPLING 32MM X 1 1/4' | RRT3216                            | RIFENG REDUCING TEE 32/16/32MM        |
| RFC4025           | RIFENG FEMALE COUPLING 40-1'         | RRT3220                            | RIFENG REDUCING TEE 32/20/32MM        |
| RFC4032           | RIFENG FEMALE COUPLING 40-1 1/4'     | RRT4025                            | RIFENG REDUCING TEE 40/25/40MM        |
| RFC4040           | RIFENG FEMALE COUPLING 40-1 1/2'     | RRT4032                            | RIFENG REDUCING TEE 40/32/40MM        |
| RFC5040           | RIFENG FEMALE COUPLING 50-1 1/2'     | RRT5040                            | RIFENG REDUCING TEE 50/40/50MM        |
| MALE COUPLINGS    |                                      | TEE - FEMALE (SIDE/BRANCH/SIDE)    |                                       |
| RMC1620           | RIFENG MALE COUPLING 16MM X 3/4'     | RFT161516                          | RIFENG FEMALE TEE 16-1/2'-16MM        |
| RMC1625           | RIFENG MALE COUPLING 16MM X 1'       | RFT202020                          | RIFENG FEMALE TEE 20-3/4'-20MM        |
| RMC2025           | RIFENG MALE COUPLING 20MM X 1'       | RFT322532                          | RIFENG FEMALE TEE 32-1'-32MM          |
| RMC3220           | RIFENG MALE COUPLING 32MM X 3/4'     | FEMALE SWIVEL COUPLING             |                                       |
| RMC4025           | RIFENG MALE COUPLING 40-1'           | RFSC2025                           | RIFENG F-SWIVEL COUPLING 20MM X1"     |
| RMC4032           | RIFENG MALE COUPLING 40-1 1/4'       | RFSC2520                           | RIFENG F-SWIVEL COUPLING 25MM X 3/4"  |
| RMC4040           | RIFENG MALE COUPLING 40-1 1/2'       | RFSC3225                           | RIFENG F-SWIVEL COUPLING 32MM X 1"    |
| RMC5050           | RIFENG MALE COUPLING 50-2'           | RIFENG GAS BALL VALVES             |                                       |
| ELBOWS - EQUAL    |                                      | AGA Lic: 7563                      |                                       |
| RE40              | RIFENG ELBOW 40MM                    | RBVF1615                           | RIFENG SWIVEL GAS B/VALVE 16MM X 1/2" |
| RE50              | RIFENG ELBOW 50MM                    | RBVF2020                           | RIFENG SWIVEL GAS B/VALVE 20MM X 3/4" |
|                   |                                      | RBVF2520                           | RIFENG SWIVEL GAS B/VALVE 25MM X 3/4" |



# DZR Fittings for Water & Gas Applications 16-32mm

|   |  | <b>PACK SIZE</b> |
|---|--|------------------|
| <b>MULTILAYER FOR WATER ( WHITE)</b>                                  |  |                  |
| RW1650  | RIFENG WATER PIPE 16MM X 50MTR COIL                | 1                |
| RW2050  | RIFENG WATER PIPE 20MM X 50MTR COIL                | 1                |
| RW2550  | RIFENG WATER PIPE 25MM X 50MTR COIL                | 1                |
| RW3250  | RIFENG WATER PIPE 32MM X 50MTR COIL                | 1                |
| RW16-5M   | RIFENG WATER PIPE 16MM X 5MTR LENGTH               | 10               |
| RW20-5M   | RIFENG WATER PIPE 20MM X 5MTR LENGTH               | 10               |
| <b>PEX PIPE FOR WATER ( BLACK)</b>                                    |  |                  |
| RPEX16100   | RIFENG WATER PEX PIPE 16MM X 100MTR COIL           | 1                |
| RPEX20100   | RIFENG WATER PEX PIPE 20MM X 100MTR COIL           | 1                |
| RPEX16L5  | RIFENG WATER PEX PIPE 16MM X 5MTR STRAIGHT         | 1                |
| RPEX20L5  | RIFENG WATER PEX PIPE 20MM X 5MTR STRAIGHT         | 1                |
| <b>DZR WATERMARK APPROVED FITTINGS FOR MLP OR PEX PIPES COUPLINGS</b> |  |                  |
| RWSC16  | RIFENG STRAIGHT COUPLING 16MM DZR                  | 45               |
| RWSC20  | RIFENG STRAIGHT COUPLING 20MM DZR                  | 30               |
| RWSC25  | RIFENG STRAIGHT COUPLING 25MM DZR                  | 16               |
| RWSC32  | RIFENG STRAIGHT COUPLING 32MM DZR                  |                  |
| <b>REDUCING COUPLING</b>  |  |                  |
| RWRC2016  | RIFENG REDUCING COUPLING 20-16MM DZR               | 37               |
| RWRC2516  | RIFENG REDUCING COUPLING 25-16MM DZR               | 20               |
| RWRC2520  | RIFENG REDUCING COUPLING 25-20MM DZR               | 20               |
| RWRC3225  | RIFENG REDUCING COUPLING 32-25MM DZR               | 20               |
| <b>ELBOW</b>  |  |                  |
| RWE16   | RIFENG ELBOW 16MM DZR                              | 32               |
| RWE20   | RIFENG ELBOW 20MM DZR                              | 22               |
| RWE25   | RIFENG ELBOW 25MM DZR                              | 11               |
| RWE32   | RIFENG ELBOW 32MM DZR                              |                  |
| <b>TEE</b>  |  |                  |
| RWT16   | RIFENG TEE 16MM DZR                                | 20               |
| RWT20   | RIFENG TEE 20MM DZR                                | 14               |
| RWT25   | RIFENG TEE 25MM DZR                                |                  |
| RWT32   | RIFENG TEE 32MM DZR                                | 6                |
| <b>TEE - REDUCING (END/BRANCH/END)</b>                                |  |                  |
| RWRT2016  | RIFENG REDUCING TEE 20/16/20MM DZR                 | 14               |
| RWRT202016  | RIFENG REDUCING TEE 20/20/16MM DZR                 |                  |
| RWRT201616  | RIFENG REDUCING TEE 20/16/16MM DZR                 |                  |
| RWRT2516  | RIFENG REDUCING TEE 25/16/25MM DZR                 | 8                |
| RWRT251616  | RIFENG REDUCING TEE 25/16/16MM DZR                 |                  |
| RWRT2520  | RIFENG REDUCING TEE 25/20/25MM DZR                 | 8                |
| RWRT252020  | RIFENG REDUCING TEE 25/20/20MM DZR                 |                  |
| RWRT252520  | RIFENG REDUCING TEE 25/25/20MM DZR                 |                  |
| RWRT3225  | RIFENG REDUCING TEE 32/25/32MM DZR                 |                  |
| <b>WINGBACK - MALE &amp; FEMALE</b>                                   |  |                  |
| RWFWBE1615  | RIFENG FEMALE W/BACK ELBOW 16MM-1/2' DZR           | 14               |
| RWFWBE1620  | RIFENG FEMALE W/BACK ELBOW 16MM-3/4' DZR           | 14               |
| RWFWBE2015  | RIFENG FEMALE W/BACK ELBOW 20MM-1/2' DZR           | 12               |
| RWFWBE2020  | RIFENG FEMALE W/BACK ELBOW 20MM-3/4' DZR           |                  |
| RWMWBE1615  | RIFENG MALE W/BACK ELBOW 16MM-1/2' DZR -95MM LONG  | 10               |
| RWMWBE2015  | RIFENG MALE W/BACK ELBOW 20MM-1/2' DZR -100MM LONG | 10               |
| RWMWBE2020  | RIFENG MALE W/BACK ELBOW 20MM-3/4' DZR -100MM LONG | 10               |
| <b>HOSE PLATES - FEMALE</b>   |  |                  |
| RWHP1615  | RIFENG HOSE PLATE 16MM X15MM FEMALE                |                  |
| RWHP2020  | RIFENG HOSE PLATE 20MM X20MM FEMALE                |                  |
| <b>SWIVEL STRAIGHT CONNECTOR</b>                                      |  |                  |
| RWFSC1615   | RIFENG FEMALE-SWIVEL COUPLING 16MM-1/2' DZR        | 20               |
| RWFSC2015   | RIFENG FEMALE-SWIVEL COUPLING 20MM-1/2' DZR        | 20               |
| RWFSC2020   | RIFENG FEMALE-SWIVEL COUPLING 20MM-3/4' DZR        | 20               |
| RWFSC2520   | RIFENG FEMALE-SWIVEL COUPLING 25MM-3/4' DZR        | 15               |
| RWFSC2525   | RIFENG FEMALE-SWIVEL COUPLING 25MM-1' DZR          | 10               |
| RWFSC3232   | RIFENG FEMALE-SWIVEL COUPLING 32MM-1-1/4' DZR      |                  |
| <b>SWIVEL ELBOW</b>   |  |                  |
| RWSE1615  | RIFENG SWIVEL ELBOW 16MM -1/2' DZR                 | 10               |
| RWSE2020  | RIFENG SWIVEL ELBOW 20MM -3/4' DZR                 |                  |
| <b>FEMALE COUPLING</b>  |  |                  |
| RWFC1615  | RIFENG FEMALE COUPLING 16MM-1/2' DZR               | 40               |
| RWFC2015  | RIFENG FEMALE COUPLING 20MM-1/2' DZR               | 35               |
| RWFC2020  | RIFENG FEMALE COUPLING 20MM-3/4' DZR               | 30               |
| RWFC2520  | RIFENG FEMALE COUPLING 25MM-3/4' DZR               | 20               |



# DZR Fittings for Water & Gas Applications 16-32mm

|   |   | <b>PACK SIZE</b> |
|---|---|------------------|
| <b>MALE COUPLING</b>                      |   |                  |
| RWMC1615                                  | RIFENG MALE COUPLING 16MM-1/2' DZR                | 50               |
| RWMC2015                                  | RIFENG MALE COUPLING 20MM-1/2' DZR                | 40               |
| RWMC2020                                  | RIFENG MALE COUPLING 20MM-3/4' DZR                | 35               |
| RWMC2515                                  | RIFENG MALE COUPLING 25MM-1/2' DZR                | 20               |
| RWMC2520                                  | RIFENG MALE COUPLING 25MM-3/4' DZR                | 18               |
| RWMC2525                                  | RIFENG MALE COUPLING 25MM-1' DZR                  | 10               |
| RWMC3225                                  | RIFENG MALE COUPLING 32MM-1' DZR                  |                  |
| RWMC3232                                  | RIFENG MALE COUPLING 32MM-1-1/4' DZR              |                  |
| <b>FEMALE ELBOW</b>                       |   |                  |
| RWFE1615                                  | RIFENG FEMALE ELBOW 16MM - 1/2' DZR               | 30               |
| RWFE2015                                  | RIFENG FEMALE ELBOW 20MM - 1/2' DZR               | 22               |
| <b>MALE ELBOW</b>                         |   |                  |
| RWME1616                                  | RIFENG FEMALE ELBOW 16MM - 1/2' DZR               |                  |
| RWME2020                                  | RIFENG FEMALE ELBOW 20MM - 3/4' DZR               |                  |
| <b>END CAP</b>                            |   |                  |
| RWC15                                     | RIFENG END CAP 16MM DZR                           | 50               |
| RWC20                                     | RIFENG END CAP 20MM DZR                           | 40               |
| RWC25                                     | RIFENG END CAP 25MM DZR                           | 30               |
| RC32                                      | RIFENG END CAP 32MM DZR                           | 3                |
| <b>COPPER TAILS - 300MM LONG - SEALED</b> |   |                  |
| RCSA16CU3/8'TAIL                          | RIFENG COPPER S/ADAPT 16MM X 9.52MM CU TAIL       | 10               |
| RCSA16CU1/2'TAIL                          | RIFENG COPPER S/ADAPT 16MM X 12.7MM CU TAIL       | 10               |
| RCSA16CU15TAIL                            | RIFENG COPPER S/ADAPT 16MM X 15 CU TAIL           | 10               |
| RCSA20CU15TAIL                            | RIFENG COPPER S/ADAPT 20MM X 15 CU TAIL           | 10               |
| RCSA20CU20TAIL                            | RIFENG COPPER S/ADAPT 20MM X 20 CU TAIL           | 10               |
| RCSA25CU15TAIL                            | RIFENG COPPER S/ADAPT 25MM X 15 CU TAIL           | 10               |
| RCSA25CU20TAIL                            | RIFENG COPPER S/ADAPT 25MM X 20 CU TAIL           | 10               |
| RCSA25CU25TAIL                            | RIFENG COPPER S/ADAPT 25MM X 25 CU TAIL           | 10               |
| <b>SUPPORT BEND FOR PEX PIPE</b>          |   |                  |
| RPEXS16                                   | RIFENG GALV BEND SUPPORT FOR PEX PIPE 16MM        | 40               |
| RPEXS20                                   | RIFENG GALV BEND SUPPORT FOR PEX PIPE 20MM        | 25               |
| <b>PIPE CLIPS</b>                         |   |                  |
| RCP16                                     | RIFENG PIPE CLIPS WITH NAIL 16MM                  | 100              |
| RCP20                                     | RIFENG PIPE CLIPS WITH NAIL 20MM                  | 80               |
| <b>TOOLS REAMERS</b>                      |   |                  |
| RPR1625                                   | RIFENG PLASTIC REAMER 16-25MM                     | 1                |
| RPR2032                                   | RIFENG PLASTIC REAMER 20-32MM                     | 1                |
| RJD-3240                                  | RIFENG LENGTHENED T-REAMER 40MM                   | 1                |
| RJD-4150                                  | RIFENG LENGTHENED T-REAMER 50MM                   | 1                |
| <b>MANUAL CRIMPERS 16-20MM</b>            |   |                  |
| RMCT16                                    | RIFENG NEW STYLE CRIMPING TOOL 16MM - BLUE HANDLE | 1                |
| RMCT20                                    | RIFENG NEW STYLE CRIMPING TOOL 20MM - BLUE HANDLE | 1                |
| <b>MANUAL CRIMPERS 16-32MM</b>            |   |                  |
| RSYQ14-32A                                | RIFENG LENGTHENED MAN PRESS TOOL 16-32MM          | 1                |
| RYYQB-1216II                              | RIFENG HEAD INSERT - LENGTHENED P/HEAD 16MM       | 1                |
| RYYQB-1620II                              | RIFENG HEAD INSERT - LENGTHENED P/HEAD 20MM       | 1                |
| RYYQB-2025II                              | RIFENG HEAD INSERT - LENGTHENED P/HEAD 25MM       | 1                |

## REMS MINI PRESS TOOLS 16MM - 32MM



A FULL RANGE OF REMS BATTERY TOOLING IS AVAILABLE ON REQUEST, REMS MINI TOOLS CRIMP SIZES 16MM - 32MM

REMS AKKU TOOLS ARE REQUIRED FOR 40MM AND OVER.

## MANUAL TOOLS 16MM - 20MM



MANUAL TOOLS ARE AVAILABLE ALSO



# Installation Instructions

Instructions apply to all SPK-Rifeng pipe installations for Gas MLP, Water MLP and Pex Pipes



## Step 1 : Pipe cutting

Cut the pipe square and accurately with a pipe cutter



## Step 2 : Rounding and beveling

Proper beveling is extremely important as it ensures the O Rings are protected and do not catch on the edge of the pipe. The beveling tool will also round the pipe to easy insertion.



## Step 3 : Inserting

Choose the desired fitting and insert the pipe squarely and smoothly into the fitting, a  $\frac{1}{4}$  turn twisting action can be utilized. Insert pipe until the pipe is visible through the inspection holes in the base of the crimp ring.



## Step 4 : Pressing

Crimping may be completed with either an approved manual tool or battery tool. Select the correct size jaw and tool. Place the jaws around the fitting with the edge of the jaw touching the plastic crimp ring holder. Depress manual tool handles until the handle touch points are closed. If using a battery tool, please ensure the tool is properly charged and depress the trigger until the jaws are completely closed or the tool auto releases.



Manual Tools are available for sizes 16mm–32mm

Mini Battery Tools are available for sizes 16mm–32mm

Larger battery tools are available for sizes 16mm–50mm