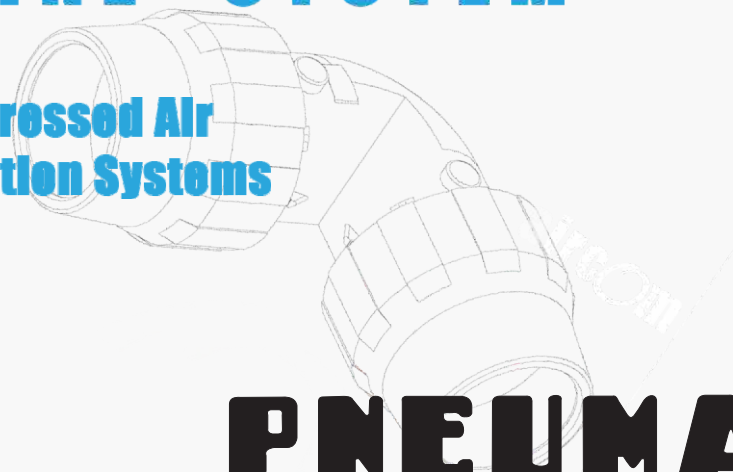


QUICK LINE SYSTEM



**Compressed Air
Distribution Systems**



PNEUMAX

pipes and fittings for compressed air



airpressure



aireom



PRODUCT DESCRIPTION

The Pneumax Compressed Air system has been expressly designed and developed to make for delivery of compressed air. Ensuring correct sizing and easy modifications of Air pipe lines.

Materials and connections peculiarity allow to build flexible plants, these can be integrated by all the Pneumax components and work out all the problems and the needs of the more complex plants.

Perfect hydraulic seal, remarkable mechanical endurance and efficiency in the time are guaranteed, in spite off the easy and quickness of installation.

CORROSION



The special aluminium alloy of the pipes, coated by hot electrostatic paint, and the tecnopolymers of QL fittings, create a corrosion-free pipeline by internal and external surface full out of deterioration. This can guarantee and at least 50 year life of the product under normal working conditions.

IMPACT RESISTANCE



The materials guarantee excellent performance relating to mechanical resistance and internal pressure resistance. The pipeline can support any violent impacts.

U. V. RAYS



U. V. rays do not affect aluminium. For reason these pipes can be layed indoor and outdoor.

FIRE RESISTANCE



The aluminium alloy of the pipes allows an excellent fire resistance (flames cannot spread)

AIR DELIVERY



Because of the low friction factor and the large inside pipe section, this system offers higher air delivery then others pipes at the corresponding outside diameter.

INSTALLATION



This system allows the highest flexibility and integrability to any other kind of system. The absolutely quickness and easy installation allows to get "zero" waiting time before starting the plant.

DIMENSIONS AND STANDARD



All the items are in accordance to national and international standards as regards to pipes, fittings and valves under pressure.

COMPRESSORS OIL COMPATIBILITY



Normally the components can work with a large range of lubricating oils for compressors. A detailed list is continually updated.



TECHNICAL SPECIFICATIONS

APPLICATION FIELDS

1. COMPRESSED AIR

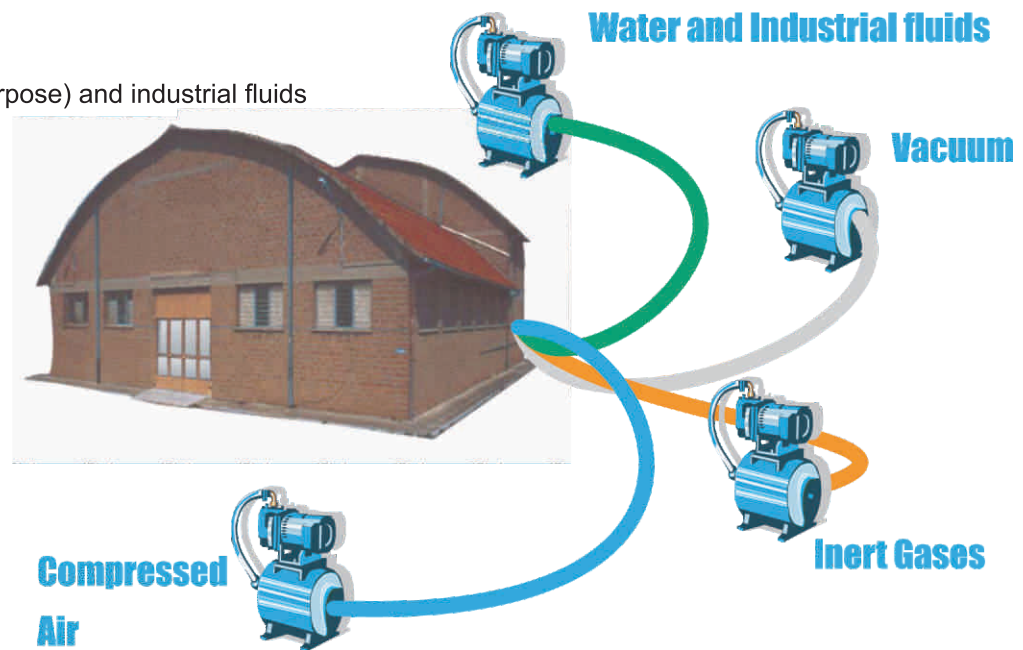
Pneumax Compressed Air system is mainly dedicated to COMPRESSED AIR, running and delivery, up to maximum pressure of 13 bar.

The wide range of products allows do develop plants starting from compressor, through the treatment units, through the distribution ring, up to the peripheral connections.

A set of special components allows quick and effective solutions to settle all the specific installation problems to compressed air.

2. OTHER USES

- Inert Gases
- Vacuum
- Water (not for human purpose) and industrial fluids



PIPELINES DISTIGUISHING CLOLORS

The Standard UNI 5634-1997 settles the colors of pipelines in order to identify the inside carried fluid.

| Fluid | Basic Color | RAL |
|---|-------------|------|
| Fire estinguishing | Red | 3000 |
| Water | Green | 6032 |
| Steam | Grey | 9006 |
| Air | Blue | - |
| Combustible end/or Inflammable Mineral Oils | Brown | 8007 |
| Gaseous or Liquified Gases (air excluded) | Yellow | 1024 |
| Acids | Orange | 2010 |
| Dangerous Fluids | Yellow | 1021 |

Colors of the most common fluids

MATERIAL CHARACTERISTICS

PHYSICAL CHARACTERISTIC



| Characteristics | Units | Temperatures | Values |
|----------------------|--------------------|--------------|---------|
| Density | Kg/dm ³ | | 2,7 |
| Elastic Modulus | KN/mm ³ | | 69 |
| Thermal expansion | μ°C-1 | 20°-100° | 23 |
| Thermal Conductivity | W/(m . K) | 20° | 200 |
| Specific warmth | J/(Kg . K) | 0°-100° | 880-900 |
| Resistivity | n W.m | | 33 |
| Fusion Temperature | °C | | 600-655 |

ALLOYS COMPARISON



| PNEUMAX | DIN | Werkstoff nr | ASTM B 241 | UNI |
|---------|------------|--------------|------------|---------------|
| 6063 | AlMg5i 0,5 | 3.3206 | A96063 T5 | 3569 - 9006/1 |

MACHANICAL CHARACTERISTIC



| 6063 T6 | |
|----------------------------|-------|
| Rm N/mm ² | 205 |
| R p (02) N/mm ² | 165 |
| A % | 10 |
| MB | 60-80 |

CHEMICAL COMPOSITION



| LEGA | Al | Mg | Si | Fe | Mn | Zn | Cv | Impur |
|------|-------|-----------|-----------|-----|------|------|------|-----------|
| 6063 | Resto | 0,35-0,60 | 0,30-0,60 | 0,3 | 0,10 | 0,10 | 0,10 | 0,05-0,15 |

MATERIALS COMPOSITION AND REFERENCE STANDARDS

| Quick line pipeline | Material | | Standard |
|---------------------|----------------------------------|---------------------|-------------------|
| | diam. 16-50 | diam. 63-80 | |
| Pipe | Aluminum 6063 | | UNI-EN 755-2 |
| Ring nut | Nylon PA6 | Aluminium UNI 46100 | UNI 46100 |
| Body | Nylon PA6 | Aluminium UNI 46100 | UNI 46100 |
| Push ring | Nylon PA6 | Nylon PA6 | ISO 1043 |
| Split ring | Inox 4310M | | EN 10088-UNI 6900 |
| Gaskets | NBR70 (Viton on demand) | | ISO 1043 |
| Inserts | Aluminium 9011S | | UNI 46100 |
| Brass fittings | OT58 | | UNI 5705 |
| Aluminum fittings | Aluminium 2011 | Aluminium UNI 46100 | UNI 46100 |
| Applique | Nylon PA6 Glass filled nylon 15% | | ISO 1043 |

| ACCESSORI | MATERIALE | NORMATIVA |
|---------------------|---------------------|-------------------|
| Quick Branch | Body : Nylon PA6 | ISO 1043 |
| | Pivot: Inox | EN 10088-UNI 6900 |
| | pin: NBR70 | ISO 1043 |
| | Elastic pin: Inox | UNI 6873 DIN 1481 |
| | Screw: plated steel | UNI 5931 DIN 912 |
| Brass fittings | OT58 | UNI 5705 |
| Inox steel fittings | AISI 316 | EN 10088-UNI 6900 |
| Pipe Bracket | Polipropilene | ISO 1043 |
| M8 screw nuts | galvanized iron | UNI 5888 |
| Spacers | Polipropilene | ISO 1043 |
| Bracket System | AISI 302 Zincato | EN 10088-UNI 6900 |

CHEMICAL COMPATIBILITY

Pneumax Compressed Air systems guarantee a very high resistance against corrosion in standard working areas. In the following table you will find chemical compatibilities of our products with some organic compound, solvents, gases, acids, salts, bases.

CHEMICAL AGENTS

MATERIALS present in Pneumax systems

| | ALUMINIUM | NBR (O-ring) | VITON* (O-ring) | CANSAR (inox) | PA (Poliammide) |
|--------------------------|-----------|--------------|-----------------|---------------|-----------------|
| ACETALDEIDE | B | D | A | A | A |
| ACETONE | A | D | D | A | A |
| ACETILENE | A | B | A | A | A |
| ACETO | D | B | A | A | A |
| ACIDI GRASSI | A | B | A | A | A |
| ACIDO ACETICO 20% | B | B | B | A | D |
| ACIDO BORICO | C | A | A | A | B |
| ACIDO CITRICO | C | A | A | A | A |
| ACIDO CLORIDRICO 20% | D | D | D | D | D |
| ACIDO NITRICO 20% | C | D | A | B | D |
| ACIDO OLEICO | A | B | B | A | B |
| ACIDO OSSALICO | A | C | A | A | B |
| ACIDO SOLFORICO | C | D | B | D | D |
| ACIDO TANNICO | C | A | A | A | C |
| ACIDO TARTARICO | B | A | A | B | B |
| ALCOOL BUTILICO | B | C | A | A | D |
| ALCOOL METILICO | B | A | C | A | B |
| AMMONIACA SOLUZIONE | B | A | D | A | A |
| ANIDRIDE CARBONICA | A | A | A | A | A |
| BENZENE | B | D | A | B | B |
| BENZINA | B | A | A | A | A |
| BURRO | A | A | A | A | A |
| BUTANOLO | B | A | A | A | B |
| CALCE VIVA | A | A | A | A | A |
| CLOROFORMIO | B | D | A | A | A |
| COLLA, P.V.A. | A | A | A | A | A |
| DIESEL (GASOLIO) | B | A | A | B | A |
| EPTANO | A | A | A | A | A |
| ETANOLO | A | A | A | B | B |
| ETILENGLICOLE | A | A | A | B | A |
| FENOLO | A | D | A | B | D |
| FORMALDEIDE 40% | B | B | A | A | A |
| GAS NATURALE | A | A | A | A | A |
| GLICERINA | A | A | A | A | A |
| GLUCOSIO | A | A | A | A | A |
| IDROGENO (GAS) | A | A | A | A | A |
| LATTE | A | A | A | A | A |
| MONOSSIDO DI CARBONIO | A | A | A | A | A |
| NAFTA | A | A | A | A | A |
| NITROBENZENE | B | D | B | B | B |
| OLIO MINERALE | A | A | A | A | A |
| OLIO MOTORE | A | A | A | A | A |
| PERMANGANATO DI POTASSIO | B | C | A | B | D |
| PROPILENE GLICOLE | B | A | A | B | A |
| SILICONE | A | A | A | A | A |
| SODA CAUSTICA | C | B | A | A | B |
| TOLUENE - TOLUOLO | A | D | C | B | B |
| UREA | B | B | A | B | A |
| VASELINA | A | A | A | A | A |
| XILENE | A | D | B | B | B |
| ZUCCHERO | A | A | A | A | A |

COMPATIBILITY WITH PNEUMAX

| QL PA6 fittings | ALUMINIUM pipe | ALUMINIUM fitting | Accessories |
|-----------------|----------------|-------------------|-------------|
| OK * | OK | OK * | OK |
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| OK * | OK | OK * | OK |
| OK | OK | OK | OK |

Legend

Compatibility between chemical agents and materials Compatibility with Pneumax

A = Optimum; B = Good; C = Modest; D = Poor;

OK Compatible NON Compatibile

* VITON O- Ring

 Unavailable datum

N:B: If you need further information on compatibilities, please contact us.



PLANT DESIGN

There are two way to draw a main line through a single one-way-only pipeline (the line start from the compressor following all the connection up to the fair peripheral one) or through a closed ring (the line start and go back to the compressor enslaveing all the connection). This last is the advisable because of the best everness delivery to the connections, it is possible to cut parts of the plant in order to set, to modify, to enlarge without complete stop of the air production in the firm.

The volume of the ring-line forms an air-storage, helping to keep the pressure value constant, especially during strong and sudden air request.

The pipeline must be designed considering the maximum air delivery at the minimum pressure needed from the facilities.

For the above we must know all detailed data of each tool, machine, equipment etc. regarding the air consumption, usually by Normal liter per Minute (NI/min), and the right working pressure value.

So, the right dimensioning of a main line, needs to consider several factors.

Compressors-Indicative Air Delivery

The following table shows the air delivery values available by compressors with several powers.



| KW | CV | NI/min |
|------|-----|--------|
| 1,5 | 2 | 230 |
| 3 | 4 | 400 |
| 4 | 6 | 600 |
| 5,5 | 7,5 | 900 |
| 7,5 | 10 | 1200 |
| 11 | 15 | 1750 |
| 12,5 | 17 | 2000 |
| 15 | 20 | 2500 |
| 18 | 25 | 3000 |
| 22 | 30 | 3500 |
| 29 | 40 | 4500 |
| 37 | 50 | 4500 |
| 45 | 60 | 7000 |
| 55 | 75 | 8500 |
| 74 | 100 | 12000 |
| 92 | 125 | 15000 |
| 110 | 150 | 18000 |
| 132 | 180 | 21000 |
| 170 | 230 | 26000 |
| 200 | 270 | 31000 |



PLANT LENGTH

When we know the service pressure, the required flow and the length of the pipe from the compressor line to the most distant air drawing (consider the sum in meters of the equivalent lengths - see table 1), we will be able to carry on the correct dimensioning of the plant.

Choice of the QLTUAL pipe for the main ring
Values referred to a 8 Bar pressure and a maximum pressure loss of 5%
Distance between the compressor and the most distant use (In meters)

| Nm ³ /h | NI/min | 25 | 50 | 100 | 150 | 200 | 300 | 400 | 500 | 1000 |
|--------------------|--------|----|----|-----|-----|-----|-----|-----|-----|------|
| 36 | 600 | 16 | 16 | 20 | 20 | 25 | 25 | 25 | 25 | 32 |
| 54 | 900 | 16 | 20 | 20 | 25 | 25 | 25 | 32 | 32 | 40 |
| 72 | 1200 | 20 | 25 | 25 | 25 | 32 | 32 | 32 | 32 | 40 |
| 105 | 1750 | 25 | 25 | 32 | 32 | 32 | 40 | 40 | 40 | 50 |
| 150 | 2500 | 25 | 32 | 32 | 32 | 40 | 40 | 40 | 50 | 50 |
| 210 | 3500 | 32 | 32 | 40 | 40 | 40 | 50 | 50 | 50 | 63 |
| 270 | 4500 | 32 | 32 | 40 | 40 | 50 | 50 | 50 | 50 | 63 |
| 360 | 6000 | 40 | 40 | 40 | 50 | 50 | 50 | 63 | 63 | 63 |
| 510 | 8500 | 40 | 40 | 50 | 50 | 50 | 63 | 63 | 63 | 80 |
| 720 | 12000 | 50 | 50 | 50 | 63 | 63 | 63 | 80 | 80 | 80 |
| 1080 | 18000 | 50 | 63 | 63 | 63 | 80 | 80 | 80 | 80 | |
| 1260 | 21000 | 63 | 63 | 63 | 80 | 80 | 80 | 80 | | |
| 1860 | 31000 | 63 | 80 | 80 | 80 | 80 | | | | |
| 2700 | 45000 | 80 | 80 | 80 | | | | | | |

FOLLOWING THE TABLE INDICATIONS THE MAXIMUM PRESSURE LOSS WILL BE 5%

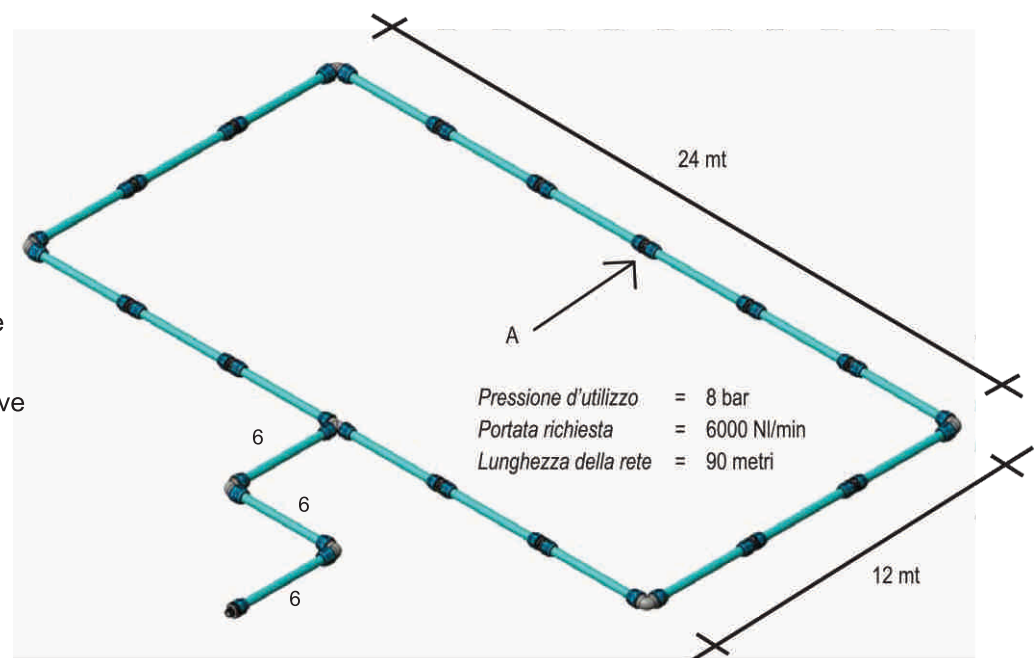
If the instant flow rate is equal or inferior to the one produced by the compressor and the ring is shorter than the suggested for a given pipe diameter, the pressure loss will not exceed 5%.

We recommend to use larger pipelines for possible future expansions and to avoid an excessive speed of the compressed air inside the piping system.

Ring dimensioning example and calculation of pressure losses in a Quick Line worknet.

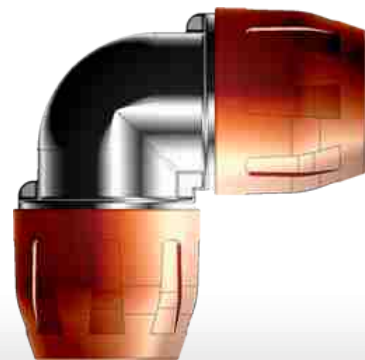
The most distant point from the compressor will be $90 / 2 = 45$ meters (point "A")

If we cross above value with the flow rate indicated in Table we shall obtain the pipe size we have to use (in this case 40 mm.)





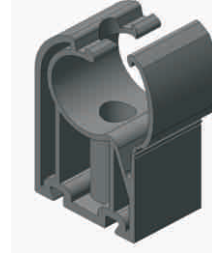
QUICK LINE PRODUCT GUIDE





Aluminium Pipe

| QLTUAL | Blue aluminium pipe |
|------------|---------------------|
| Code | Ø |
| QLTUAL6020 | 20 |
| QLTUAL6025 | 25 |
| QLTUAL6032 | 32 |
| QLTUAL6040 | 40 |
| QLTUAL6050 | 50 |
| QLTUAL6063 | 63 |
| QLTUAL6080 | 80 |
| QLTUAL6110 | 110 |



| DIRFEM8CF | Brackets, with M8 thread insert piece |
|---------------|---------------------------------------|
| Code | Ø |
| DIRFEM8016CF | 16 |
| DIRFEM8020CF | 20 |
| DIRFEM8025CF | 25 |
| DIRFEM8032CF | 32 |
| DIRFEM8040CF | 40 |
| DIRFEM8050CF | 50 |
| DIRFEM8063CF | 63 |
| DIRFEM8080CF | 80 |
| DIRFEM80110CF | 110 |

| | |
|------------|----|
| QLTUAL3016 | 16 |
| QLTUAL3020 | 20 |
| QLTUAL3025 | 25 |
| QLTUAL3032 | 32 |
| QLTUAL3040 | 40 |



| DIRSPE | Spacers |
|--------------|---------|
| Code | Ø |
| DIRSPE020032 | 20-32 |
| DIRSPE040063 | 40-63 |

| QLTUALG | |
|-------------|----|
| Code | Ø |
| QLTUALG6020 | 20 |
| QLTUALG6025 | 25 |
| QLTUALG6040 | 40 |
| QLTUALG6063 | 63 |



| QLSCI | Double bend (aluminium), blue |
|----------|-------------------------------|
| Code | Ø |
| QLSCI016 | 16 |
| QLSCI020 | 20 |
| QLSCI025 | 25 |



QUIKLINE TECHNOPOLYMER

QUICK LINE PA (Technopolymer Polyamide 6)

FITTINGS 16 - 63 mm (1/2" to 2.1/2")



| QLMAPA | Coupling |
|-----------|----------|
| Code | Ø |
| QLMAPA016 | 16 |
| QLMAPA020 | 20 |
| QLMAPA025 | 25 |
| QLMAPA032 | 32 |
| QLMAPA040 | 40 |
| QLMAPA050 | 50 |
| QLMAPA063 | 63 |



| QLMASPA | Sliding coupling |
|------------|------------------|
| Code | Ø |
| QLMASPA032 | 32 |
| QLMASPA040 | 40 |
| QLMASPA050 | 50 |
| QLMASPA063 | 63 |



| QLGO90PA | 90° Elbow |
|-------------|-----------|
| Code | Ø |
| QLGO90PA016 | 16 |
| QLGO90PA020 | 20 |
| QLGO90PA025 | 25 |
| QLGO90PA032 | 32 |
| QLGO90PA040 | 40 |
| QLGO90PA050 | 50 |
| QLGO90PA063 | 63 |



| QLGO45PA | 45° Elbow |
|-------------|-----------|
| Code | Ø |
| QLGO45PA020 | 20 |
| QLGO45PA025 | 25 |
| QLGO45PA032 | 32 |
| QLGO45PA040 | 40 |
| QLGO45PA050 | 50 |
| QLGO45PA063 | 63 |



| QLTEPA | Tee |
|-----------|-----|
| Code | Ø |
| QLTEPA016 | 16 |
| QLTEPA020 | 20 |
| QLTEPA025 | 25 |
| QLTEPA032 | 32 |
| QLTEPA040 | 40 |
| QLTEPA050 | 50 |
| QLTEPA063 | 63 |



| QLTPPA | Threaded tee female thread |
|--------------|----------------------------|
| Code | Ø |
| QLTPPA020048 | 20x1/2" |
| QLTPPA025048 | 25x1/2" |



| QLTRPA | Reducing Tee |
|--------------|--------------|
| Code | Ø |
| QLTRPA020016 | 20x16 |
| QLTRPA025016 | 25x16 |
| QLTRPA025020 | 25x20 |
| QLTRPA032020 | 32x20 |
| QLTRPA032025 | 32x25 |
| QLTRPA040025 | 40x25 |
| QLTRPA040032 | 40x32 |
| QLTRPA050032 | 50x32 |
| QLTRPA050040 | 50x40 |
| QLTRPA063040 | 63x40 |
| QLTRPA063050 | 63x50 |



| QLCAPA | End Cap |
|-----------|---------|
| Code | Ø |
| QLCAPA016 | 16 |
| QLCAPA020 | 20 |
| QLCAPA025 | 25 |
| QLCAPA032 | 32 |
| QLCAPA040 | 40 |
| QLCAPA050 | 50 |
| QLCAPA063 | 63 |

QUIKLINE TECHNOPOLYMER

QUICK LINE PA (Technopolymer Polyamide 6)

FITTINGS 16 - 63 mm (1/2" to 2.1/2")



| QLRIDPA | Reduction |
|---------------|-----------|
| Code | ∅ |
| QLRIDPA025020 | 25x20 |
| QLRIDPA032025 | 32x25 |
| QLRIDPA040025 | 40x25 |
| QLRIDPA040032 | 40x32 |
| QLRIDPA050040 | 50x40 |



| QLMNPA | Union, male threaded |
|--------------|----------------------|
| Code | ∅ |
| QLMNPA016048 | 16x1/2" |
| QLMNPA020048 | 20x1/2" |
| QLMNPA020068 | 20x3/4" |
| QLMNPA025048 | 25x1/2" |
| QLMNPA025068 | 25x3/4" |
| QLMNPA025088 | 25x1" |
| QLMNPA032088 | 32x1" |
| QLMNPA032108 | 32x1.1/4" |
| QLMNPA040088 | 40x1" |
| QLMNPA040108 | 40x1.1/4" |
| QLMNPA040128 | 40x1.1/2" |
| QLMNPA050128 | 50x1.1/2" |
| QLMNPA050168 | 50x2" |
| QLMNPA063168 | 63x2" |



| QLGO90PM | 90° elbow, male thread |
|----------------|------------------------|
| Code | ∅ |
| QLGO90PM020048 | 20x1/2" |
| QLGO90PM025048 | 25x1/2" |
| QLGO90PM025068 | 25x3/4" |



| QLMNM | Nipple socket, aluminium body, male threaded |
|-------------|--|
| Code | ∅ |
| QLMNM020048 | 20x1/2" |
| QLMNM020068 | 20x3/4" |
| QLMNM025088 | 25x1" |
| QLMNM032108 | 32x1.1/4" |
| QLMNM050168 | 50x2" |



| QLMPM | Nipple socket, aluminium body, female threaded |
|-------------|--|
| Code | ∅ |
| QLMPM020048 | 20x1/2" |
| QLMPM020068 | 20x3/4" |
| QLMPM025088 | 25x1" |
| QLMPM032108 | 32x1.1/4" |
| QLMPM050168 | 50x2" |

WALL MOUNT MANIFOLDS (TECHNOPOLYMER)



| QLAPM | | Single port manifold, female thread |
|--------------|--|-------------------------------------|
| Code | | Ø |
| QLAPM016 | | 16x1/2" |
| QLAPM020 | | 20x1/2" |



| DIRAPL | | Double port manifold, female threads + threaded inlet |
|---------------|--|---|
| Code | | Ø |
| DIRAPL048 | | 1/2"x1/2" |
| DIRAPL068 | | 3/4"x1/2" |



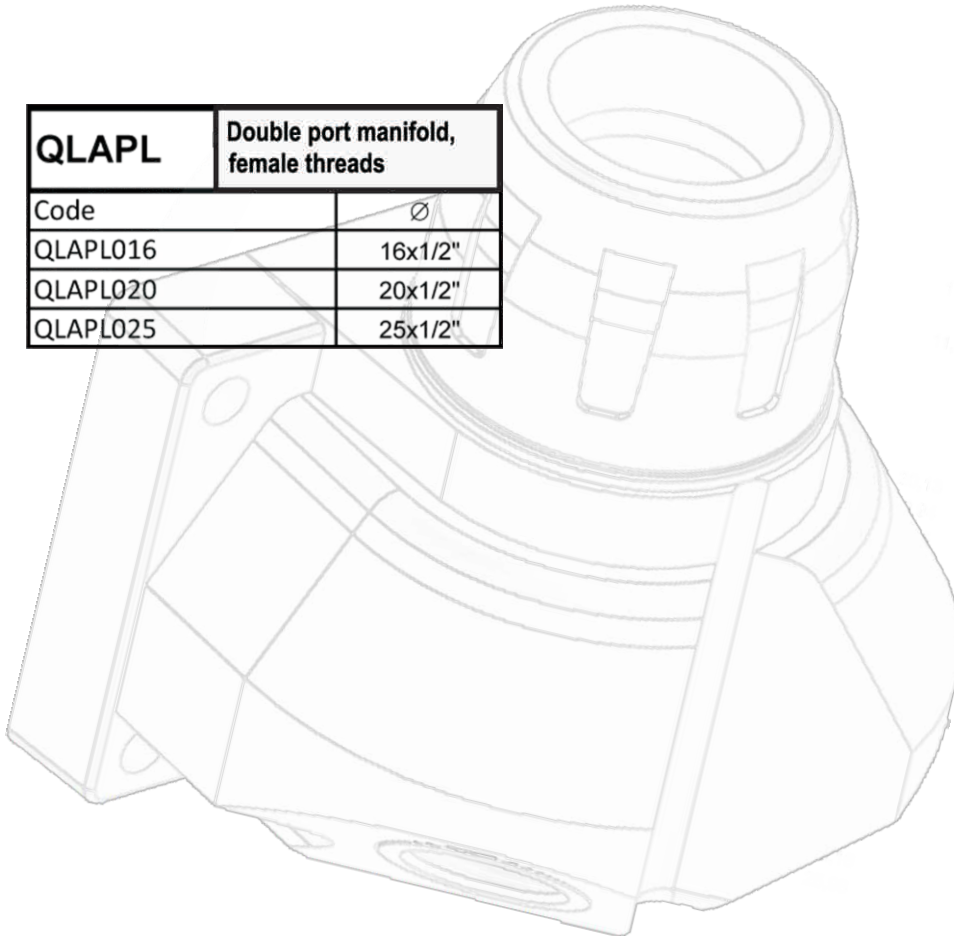
| DIRAPM | | Single port manifold, female thread + threaded inlet |
|---------------|--|--|
| Code | | Ø |
| DIRAPM048 | | 1/2"x1/2" |



| DIRPMU | | Multiple manifold, threaded inlet + 10 threaded outlets |
|-----------------|--|---|
| Code | | Ø |
| DIRPMU068028038 | | 3/4"x1/4"x3/8" |



| QLAPL | | Double port manifold, female threads |
|--------------|--|--------------------------------------|
| Code | | Ø |
| QLAPL016 | | 16x1/2" |
| QLAPL020 | | 20x1/2" |
| QLAPL025 | | 25x1/2" |



**QUICK LINE ALUMINIUM
FITTINGS 40 - 110 mm (1.1/2" - 4")**



| QLMAAL | Coupling |
|---------------|-----------------|
| Code | Ø |
| QLMAAL040 | 40 |
| QLMAAL063 | 63 |
| QLMAAL080 | 80 |



| QLTPAL | Threaded tee, female thread |
|---------------|------------------------------------|
| Code | Ø |
| QLTPAL040108 | 40x1.1/4" |
| QLTPAL063168 | 63x2" |
| QLTPAL080208 | 80x2.1/2" |



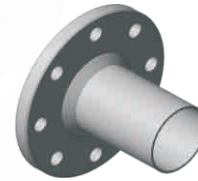
| | |
|-----------|-----|
| QLMAAL110 | 110 |
|-----------|-----|



| | |
|--------------|--------|
| QLTPAL110248 | 110x3" |
|--------------|--------|



| QLMASAL | Sliding coupling |
|----------------|-------------------------|
| Code | Ø |
| QLMASAL040 | 40 |
| QLMASAL063 | 63 |
| QLMASAL080 | 80 |



| QLTFLAL | Flanged tip |
|-------------------|--------------------|
| Code | Ø |
| QLTFLAL080248DIN | 80x3" |
| QLTFLAL080248ANSI | 80x3" |
| QLTFLAL110328DIN | 110x4" |
| QLTFLAL110328ANSI | 110x4" |



| QLGO90AL | 90° Elbow |
|-----------------|------------------|
| Code | Ø |
| QLGO90AL040 | 40 |
| QLGO90AL063 | 63 |
| QLGO90AL080 | 80 |



| QLCAAL | End cap |
|---------------|----------------|
| Code | Ø |
| QLCAAL040 | 40 |
| QLCAAL063 | 63 |
| QLCAAL080 | 80 |



| | |
|-------------|-----|
| QLGO90AL110 | 110 |
|-------------|-----|



| QLTEAL | Tee |
|---------------|------------|
| Code | Ø |
| QLTEAL040 | 40 |
| QLTEAL063 | 63 |
| QLTEAL080 | 80 |



| | |
|-----------|-----|
| QLTEAL110 | 110 |
|-----------|-----|



**QUICK LINE ALUMINIUM
FITTINGS 40 - 110 mm (1.1/2" - 4")**



| QLMNMAL | Nipple socket, male threaded |
|----------------|-------------------------------------|
| Code | Ø |
| QLMNMAL040128 | 40x1.1/2" |
| QLMNMAL063168 | 63x2. |
| QLMNMAL063208 | 63x2.1/2" |
| QLMNMAL080208 | 80x2.1/2" |
| QLMNMAL080248 | 80x3" |



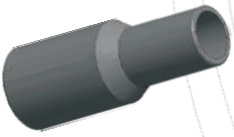
| QLMFLAL | Flanged coupling |
|-------------------|-------------------------|
| Code | Ø |
| QLMFLAL063168DIN | 63x2" |
| QLMFLAL080248DIN | 80x3" |
| QLMFLAL063168ANSI | 63x2" |
| QLMFLAL080248ANSI | 80x3" |



| QLMPMAL | Nipple socket, female threaded |
|----------------|---------------------------------------|
| Code | Ø |
| QLMPMAL040128 | 40x1.1/2" |
| QLMPMAL063208 | 63x2.1/2" |



| | |
|-------------------|--------|
| QLMFLAL110328DIN | 110x4" |
| QLMFLAL110328ANSI | 110x4" |



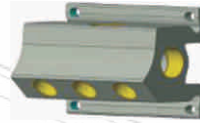
| QLRIDTU | Reduction pipe, male/male connection |
|----------------|---|
| Code | Ø |
| QLRIDTU11063 | 110x63 |
| QLRIDTU11080 | 110x80 |



WALL MOUNT MANIFOLDS (ALUMINIUM)



| | | |
|-----------------|-------------------------------------|------|
| DIRAPMAL | Single port manifold female threads | |
| Code | IN | OUT |
| DIRAPMAL048048 | 1/2"x | 1/2" |



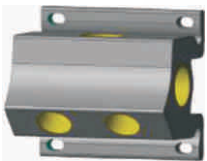
| | | |
|--------------------|---|----------------------|
| DIRPMUAL120 | Five port manifold female threads + drain 1/4"(blind) | |
| Code | IN | OUT |
| DIRPMUAL120 | 3/4"x | 1/2"(x3) 3/4"(x2) |



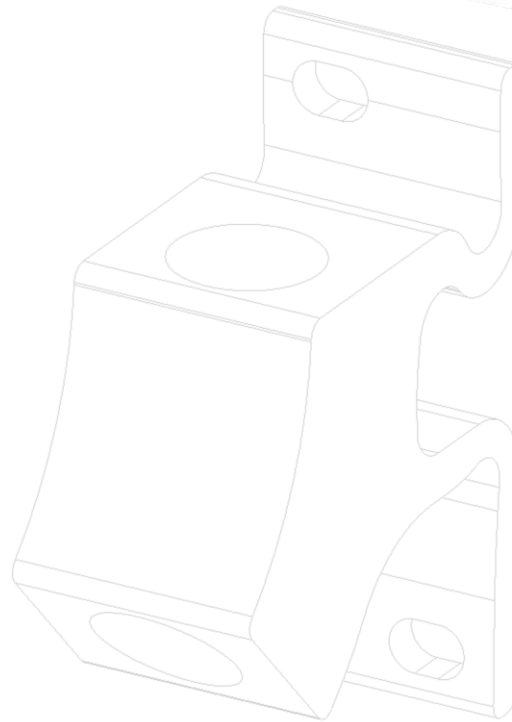
| | | |
|-------------------|--|----------|
| DIRAPFRLAL | Three port manifold female threads + drain 1/4"(blind) | |
| Code | IN | OUT |
| DIRAPFRLAL048048 | 1/2"x | 1/2"(x3) |



| | | |
|--------------------|--|----------------------|
| DIRPMUAL200 | Seven port manifold female threads + drain 1/4"(blind) | |
| Code | IN | OUT |
| DIRPMUAL200 | 3/4"x | 1/2"(x5) 3/4"(x2) |



| | | |
|-----------------|---|----------------------|
| DIRAPLAL | Four port manifold female threads + drain 1/4"(blind) | |
| Code | IN | OUT |
| DIRAPLAL048048 | 1/2"x | 1/2"(x4) |
| DIRAPLAL068068 | 3/4"x | 1/2"(x2) 3/4"(x2) |

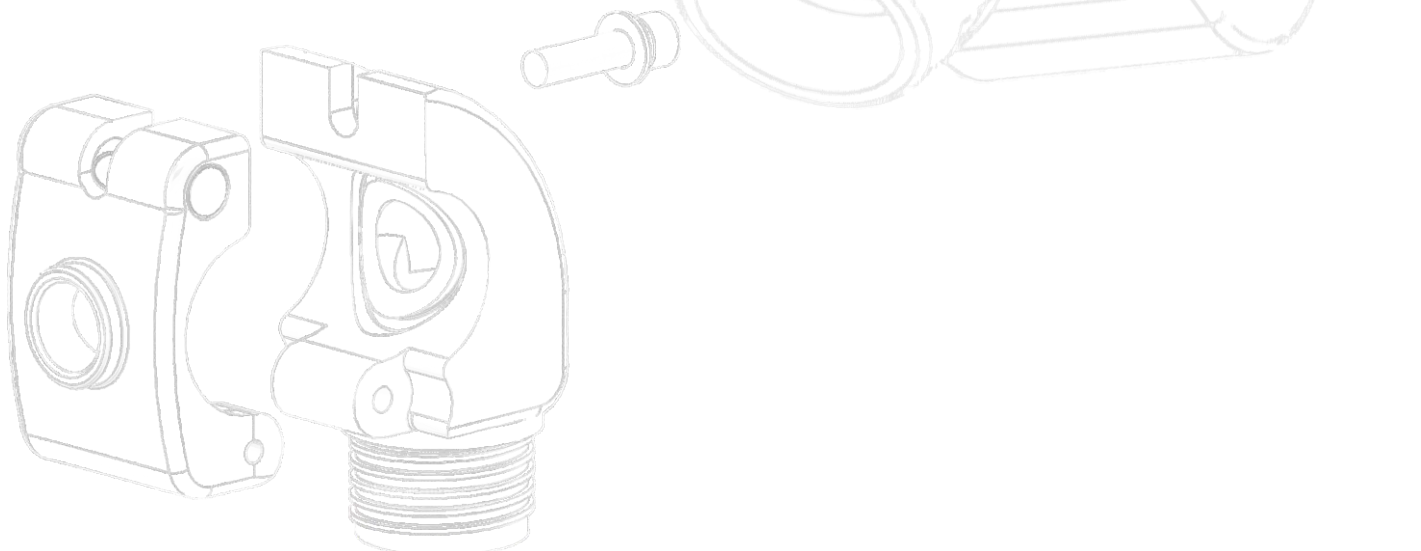
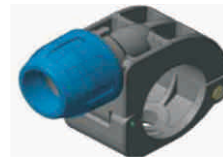




QUICK BRANCH PLUGS

| DIRDERFF | Quick branch plugs, female threaded outlet (aluminium) |
|----------------|--|
| Code | Ø |
| DIRDERFF025048 | 25x1/2" |
| DIRDERFF032048 | 32x1/2" |
| DIRDERFF040048 | 40x1/2" |
| DIRDERFF040068 | 40x3/4" |
| DIRDERFF050048 | 50x1/2" |
| DIRDERFF050068 | 50x3/4" |
| DIRDERFF063048 | 63x1/2" |
| DIRDERFF063068 | 63x3/4" |
| DIRDERFF063088 | 63x1" |
| DIRDERFF080048 | 80x1/2" |
| DIRDERFF080068 | 80x3/4" |
| DIRDERFF080088 | 80x1" |
| DIRDERFF110068 | 110x3/4" |
| DIRDERFF110088 | 110x1" |

| QLDERPA | Quick branch plug |
|---------------|-------------------|
| Code | Ø |
| QLDERPA025016 | 25x16 |
| QLDERPA025020 | 25x20 |
| QLDERPA032016 | 32x16 |
| QLDERPA032020 | 32x20 |
| QLDERPA040016 | 40x16 |
| QLDERPA040020 | 40x20 |
| QLDERPA040025 | 40x25 |
| QLDERPA050016 | 50x16 |
| QLDERPA050020 | 50x20 |
| QLDERPA050025 | 50x25 |
| QLDERPA063020 | 63x20 |
| QLDERPA063025 | 63x25 |
| QLDERPA063032 | 63x32 |
| QLDERPA080020 | 80x20 |
| QLDERPA080025 | 80x25 |
| QLDERPA080032 | 80x32 |
| QLDERPA110025 | 110x25 |
| QLDERPA110032 | 110x32 |



QUICK LINE VALVES



| QLVAVIP | | Pneumatic single action valve |
|------------|--|-------------------------------|
| Code | | Ø |
| QLVAVIP032 | | 32 |
| QLVAVIP040 | | 40 |
| QLVAVIP050 | | 50 |
| QLVAVIP063 | | 63 |



| QLVAINOXF | | Quick Line stainless steel ball valve, female threaded |
|------------------|--|--|
| Code | | Ø |
| QLVAINOXF40128 | | 40 x 1.1/2" |
| QLVAINOXF63168 | | 63 x 2" |
| QLVAINOXF80248 | | 80 x 3" |
| QLVAINOXF110DIN | | 110 |
| QLVAINOXF110ANSI | | 110 |



| QLKITVA | | Control kit for pneumatic valve |
|---------|--|---------------------------------|
| Code | | Ø |
| QLKITVA | | |

Control kit composed of:

- ON/OFF switch
- 10 m twin PU-tube
- 2 M5-nipples
- plastic case



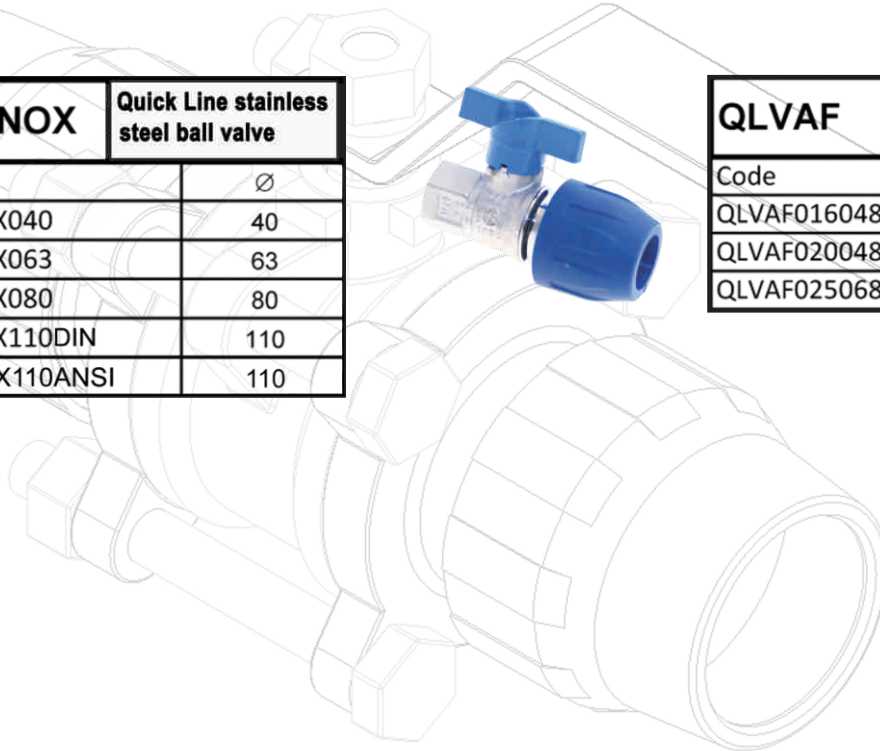
| QLVAM | | Quick Line male threaded connection ball valve |
|-------------|--|--|
| Code | | Ø |
| QLVAM016048 | | 16x1/2" |
| QLVAM020048 | | 20x1/2" |
| QLVAM025068 | | 25x3/4" |



| QLVAINOX | | Quick Line stainless steel ball valve |
|-----------------|--|---------------------------------------|
| Code | | Ø |
| QLVAINOX040 | | 40 |
| QLVAINOX063 | | 63 |
| QLVAINOX080 | | 80 |
| QLVAINOX110DIN | | 110 |
| QLVAINOX110ANSI | | 110 |



| QLVAF | | Quick Line female threaded connection ball valve |
|-------------|--|--|
| Code | | Ø |
| QLVAF016048 | | 16x1/2" |
| QLVAF020048 | | 20x1/2" |
| QLVAF025068 | | 25x3/4" |





QUICK LINE ACCESSORIES

| QLFLEX | Flexible expansion compensator hose, male connection |
|-----------|--|
| Code | Ø |
| QLFLEX020 | 20 |
| QLFLEX025 | 25 |
| QLFLEX032 | 32 |
| QLFLEX040 | 40 |
| QLFLEX050 | 50 |
| QLFLEX063 | 63 |



| DIRFLFF | Threaded flange (UNI EN 1092-1) |
|----------------|---------------------------------|
| Code | Ø |
| DIRFLFF168DIN | 63 |
| DIRFLFF248DIN | 80 |
| DIRFLFF328DIN | 110 |
| DIRFLFF168ANSI | 63 |
| DIRFLFF248ANSI | 80 |
| DIRFLFF328ANSI | 110 |



| QLFLEXM | Flexible expansion compensator hose, male threaded connection |
|-------------|---|
| Code | Ø |
| QLFLEXM088 | 1"x1" |
| QLFLEXM108 | 1.1/4"x1.1/4" |
| QLFLEXM128 | 1.1/2"x1.1/2" |
| QLFLEXM0168 | 2"x2" |



| QLPUNM | Male threaded Quick Line Line spigot (aluminium) |
|--------------|--|
| Code | Ø |
| QLPUNM020048 | 20x1/2" |
| QLPUNM020068 | 20x3/4" |
| QLPUNM025088 | 25x1" |
| QLPUNM032108 | 32x1.1/4" |
| QLPUNM040128 | 40x1.1/2" |
| QLPUNM050168 | 50x2" |
| QLPUNM063168 | 63x2" |
| QLPUNM080248 | 80x3" |



| DIRDIL | Expansion joint, flanged |
|---------------|--------------------------|
| Code | Ø |
| DIRDIL063DIN | 63 |
| DIRDIL080DIN | 80 |
| DIRDIL110DIN | 110 |
| DIRDIL063ANSI | 63 |
| DIRDIL080ANSI | 80 |
| DIRDIL110ANSI | 110 |



| QLRIDMF | Concentric male-female reduction (aluminium) |
|---------------|--|
| Code | Ø |
| QLRIDMF108088 | 1.1/4"x1" |
| QLRIDMF128108 | 1.1/2"x1.1/4" |
| QLRIDMF168128 | 2"x1.1/2" |
| QLRIDMF208168 | 2.1/2"x2" |
| QLRIDMF248208 | 3"x2.1/2" |





QUICK LINE TOOLS



| QLCLE | Quick Line nut wrench |
|-------------|-----------------------|
| Code | ∅ |
| QLCLE016020 | 16-20 |
| QLCLE025032 | 25-32 |
| QLCLE040050 | 40-50 |
| QLCLE063 | 63 |



| QLGUPFL | Flat seal |
|------------|-----------|
| Code | ∅ |
| QLGUPFL063 | 63 |
| QLGUPFL080 | 80 |
| QLGUPFL110 | 110 |



| | |
|------------|----|
| QLCLEAL040 | 40 |
| QLCLEAL063 | 63 |
| QLCLEAL080 | 80 |



| DIRVSP | Condensate discharge valve |
|-----------|----------------------------|
| Code | ∅ |
| DIRVSP028 | 1/4" |



| QLMIS | Pipe-fitting insertion meter D 16-80 |
|-------------|--------------------------------------|
| Code | ∅ |
| QLMIS016080 | 16-80 |



| DIRTAP | Plug for aluminium manifolds |
|-----------|------------------------------|
| Code | ∅ |
| DIRTAP048 | 1/2" |
| DIRTAP068 | 3/4" |



| DIRSM | Deburrers and reamers |
|-------------|-----------------------|
| Code | ∅ |
| DIRSM016050 | 16-50 |



| DIRGOECC | Eccentric fitting |
|-------------|-------------------|
| Code | ∅ |
| DIRGOECC048 | 1/2" |



| | |
|-------------|--------|
| DIRSM063110 | 63-110 |
|-------------|--------|



| QLVAL | Toolbox |
|-------|-----------|
| Code | size (mm) |
| VAL1 | |

* Toolbox containing:

- QLCLE016020
- QLCLE025032
- QLCLE040050
- QLCLEAL040
- QLCLEAL063
- QLCLEAL080
- QLMIS016080
- DIRSM016050



** • Double Bush •

| QLBUR | Bush with O-Ring seal |
|------------|-----------------------|
| Code | ∅ |
| QLBUR016 | 16 |
| QLBUR020 | 20 |
| QLBUR025 | 25 |
| QLBUR032 | 32 |
| QLBUR040 | 40 |
| QLBUR040AL | 40 |
| QLBUR050 | 50 |
| QLBUR063** | 63 |
| QLBUR080** | 80 |





| QLORV | Viton O-Ring seal |
|------------|-------------------|
| Code | Ø |
| QLORV016 | 16 |
| QLORV020 | 20 |
| QLORV025 | 25 |
| QLORV032 | 32 |
| QLORV040 | 40 |
| QLORV040AL | 40 |
| QLORV050 | 50 |
| QLORV063 | 63 |
| QLORV080 | 80 |



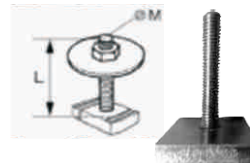
| DIRCLDC | Wall mounting bracket, type CLDC |
|-----------|----------------------------------|
| Code | Length |
| DIRCLDC15 | 150 mm |
| DIRCLDC30 | 300 mm |

| QLGHRPA | Ring nut with stainless steel clamping ring |
|------------|---|
| Code | Ø |
| QLGHRPA016 | 16 |
| QLGHRPA020 | 20 |
| QLGHRPA025 | 25 |
| QLGHRPA032 | 32 |
| QLGHRPA040 | 40 |
| QLGHRPA050 | 50 |
| QLGHRPA063 | 63 |



| DIREBC | Beam clamp type EBC |
|--------|---------------------|
| Code | clampg.width |
| DIREBC | < 16 mm |

| QLGHRAL | Aluminium ring nut with stainless steel clamping ring |
|------------|---|
| Code | Ø |
| QLGHRAL040 | 40 |
| QLGHRAL063 | 63 |
| QLGHRAL080 | 80 |
| QLGHRAL110 | 110 |



| DIRTMN | Preassembled bolt TMN-M8 |
|----------|--------------------------|
| Code | length |
| DIRTMN3 | 30 mm |
| DIRTMN4 | 40 mm |
| DIRTMN5 | 50 mm |
| DIRTMN6 | 60 mm |
| DIRTMN10 | 100 mm |



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