

# Hoses



Atlas Copco Tools has seven different hoses covering all types of needs for pneumatic hand tools. The diagram helps you to choose the right hose according to the air consumption of the tool and the length of the hose. The purpose of the diagram is to ensure that the pressure drop in the hoses does not exceed 0.2 bar.

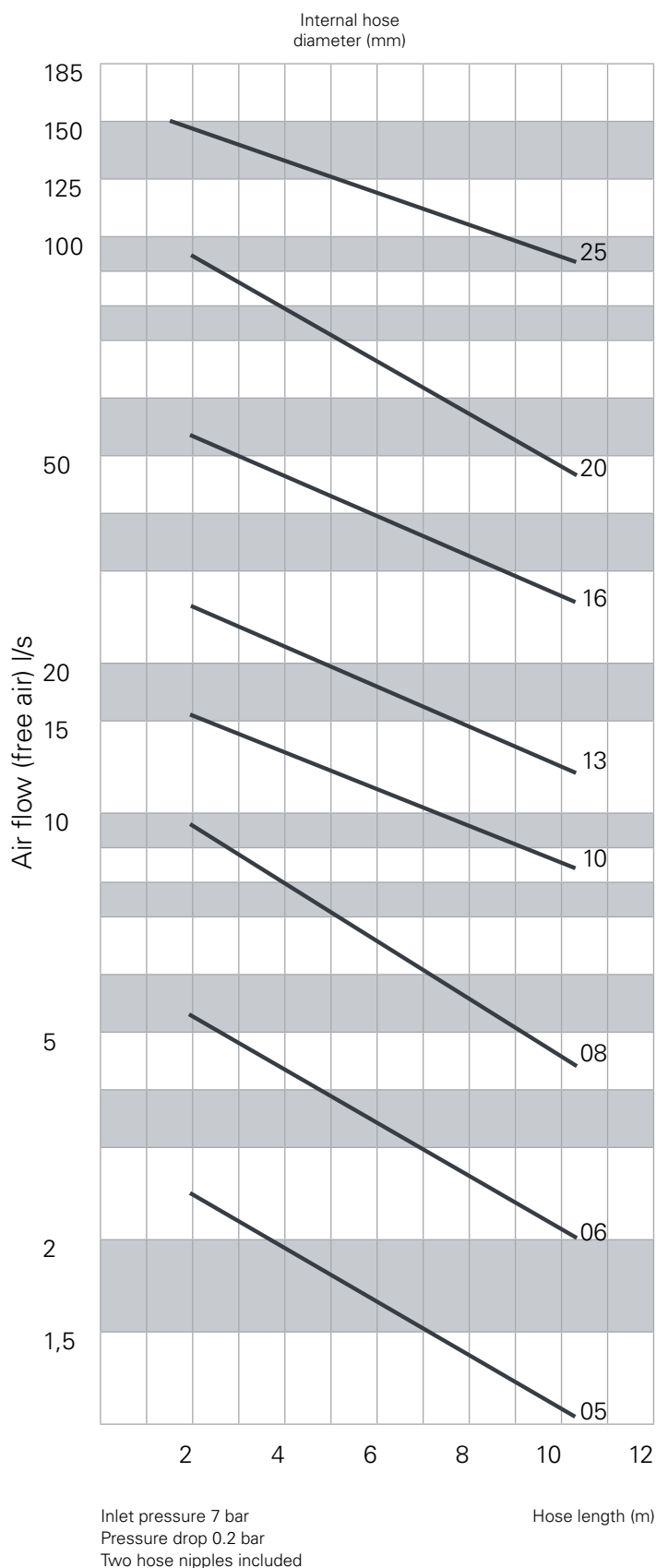
### How to find correct internal hose diameter:

1. Find the required air consumption for the tool at 6 bar and the required hose length.
2. Use the required hose length and air flow to find required hose size.

### Example

The tool has an air consumption of 10 l/s and the application requires a hose length of 7 m. These two values have a cross point slightly under the 10 mm size hose (7 m of 10 mm hose gives a value of approximately 11 l/s). Therefore a 10 mm hose will be suitable.

Pressure drop diagram for hoses



# Rubber hoses



## TURBO Super-light flexible rubber hose

The Turbo hose has been developed for both indoor and outdoor use. The hose weighs 30–40% less than conventional rubber hoses. Turbo hose is oil resistant.

- Extremely low weight.
- Soft and flexible.
- Antistatic.
- Grinding and welding spatter resistant.
- Working temperature -30°C to +70°C.

Model	Hose inside dia		Hose outside dia mm	Max working pressure <sup>a</sup> bar	Max rec. air flow <sup>b</sup> l/s	Weight per		Ordering No.
	mm	in				20 m coil kg	30 m coil kg	
TURBO 13	13	1/2	19	20	21	3.9	–	9093 0057 91
TURBO 13	13	1/2	19	20	21	–	5.9	9093 0057 93
TURBO 16	16.8	2/3	22.8	20	43	4.8	–	9093 0057 31
TURBO 16	16.8	2/3	22.8	20	43	–	7.2	9093 0057 33
TURBO 20	21	5/6	27	20	75	5.4	–	9093 0057 61
TURBO 20	21	5/6	27	20	75	–	8.1	9093 0057 62

<sup>a</sup> With a safety factor of 3 at 20°C.

<sup>b</sup> The pressure drop will be 0.2 bar on a hose length of 5 m, including 2 nipples and at an inlet pressure of 7 bar.



## RUBBER Durable, reinforced, extra thick, heavy duty rubber hose

Withstands rough handling and is suitable for the most demanding industrial tasks. The inner lining is black EPDM rubber and the hose is conductive to dissipate static electricity. Reinforced with synthetic textile yarns that provide high tensile strength.

- Durable.
- Grinding and welding spatter resistant.
- Working temperature -25°C to +70°C.

Model	Hose inside dia		Hose outside dia mm	Max working pressure <sup>a</sup> bar	Max rec. air flow <sup>b</sup> l/s	Weight per		Ordering No.
	mm	in				20 m coil kg	30 m coil kg	
RUBBER	6.3	1/4	12	16	4	30	3.5	9030 2036 00
RUBBER	10	3/8	17	16	13	30	6.9	9030 2037 00
RUBBER	12.5	1/2	22	16	21	30	12.3	9030 2038 00
RUBBER	16	5/8	25	16	43	30	13.9	9030 2039 00
RUBBER	20	3/4	30	16	75	30	19.3	9030 2040 00
RUBBER	25	1	36	16	125	30	24.0	9030 2041 00

<sup>a</sup> With a safety factor of 3 at 20°C.

<sup>b</sup> The pressure drop will be 0.2 bar on a hose length of 5 m, including 2 nipples and at an inlet pressure of 7 bar.



**RUBAIR**  
**Durable reinforced heavy**  
**duty rubber hose**

Rubair hose is double reinforced to fulfil all general heavy duty demands and is recommended for indoor and outdoor use. Rubair hose is oil resistant.

- Durable.
- Antistatic.
- Grinding and welding spatter resistant.
- Working temperature -20°C to +80°C.

Model	Hose inside dia		Hose outside dia mm	Max working pressure <sup>a</sup> bar	Max rec. air flow <sup>b</sup> l/s	Weight per 20 m coli kg	Ordering No.
	mm	in					
RUBAIR 10	10	3/8	16.0	16	13	3.6	8202 0402 10
RUBAIR 13	12.5	1/2	19.1	16	21	4.7	8202 0403 13
RUBAIR 16	16	5/8	23.0	16	43	6.1	8202 0404 16
RUBAIR 20	20	3/4	26.6	16	75	7.8	8202 0405 20

<sup>a</sup> With a safety factor of 4 at 20°C.

<sup>b</sup> The pressure drop will be 0.2 bar on a hose length of 5 m, including 2 nipples and at an inlet pressure of 7 bar.



# Hoses



## CABLAIR Super-light flexible PVC-hose

Cablaire is made of high-strength and high performance PVC compound. The Cablaire hose weighs 30–50% less, is much softer and more flexible than conventional PVC hoses.

- Low weight.
- Extremely soft and flexible.
- Silicone free.
- Ergonomic.
- Working temperature -15°C to +60°C.

Model	Hose inside dia		Hose outside dia mm	Max working pressure <sup>a</sup> bar	Max rec. air flow <sup>b</sup> l/s	Weight per 30 m coli kg	Ordering No.
	mm	in					
CABLAIR 06	6	1/4	8.5	14	4	1.2	9093 0035 11
CABLAIR 08	8	1/3	11	14	7.5	1.7	9093 0035 41
CABLAIR 10	10	2/5	13	12	13	2.1	9093 0035 71
CABLAIR 13	12.5	1/2	16	11	21	3.0	9093 0036 01
CABLAIR 16	16	5/8	21	8	43	5.4	9093 0036 31
CABLAIR 20	19	3/4	24	8	75	5.8	9093 0036 61
CABLAIR 25	25	1	31.5	7	125	10.4	9093 0036 91

<sup>a</sup>With a safety factor of 3 at 20°C (at the max temp of +60°C the working pressure should be reduced by 50%).

<sup>b</sup>The pressure drop will be 0.2 bar on a hose length of 5 m.

## CABLAIR ESD Extra flexible antistatic air hose

Cablaire ESD is designed specifically for the computer manufacturing industry. The hose possesses properties which enable ESDS (electrostatic sensitive devices) to be handled in a protected area with a low risk level, as a result of electrostatic discharge. The connection device must be earthed/grounded.

- Extra flexible.
- Antistatic.
- Silicone free.
- Testing in accordance with BS ISO 2878:2005.
- Working temperature -15°C to +60°C.



Model	Hose inside dia		Hose outside dia		Max working pressure <sup>a</sup> bar	Max rec. air flow <sup>b</sup> l/s	Weight per 30 m coli kg	Ordering No.
	mm	in	mm	in				
CABLAIR ESD 06	6	1/4	11	7/16	10	4	2.34	8202 0501 06
CABLAIR ESD 08	8	5/16	12	1/2	9	7.5	2.56	8202 0501 08
CABLAIR ESD 10	10	3/8	14	9/16	8	13	2.71	8202 0501 10
CABLAIR ESD 13	13	1/2	18	23/32	7	21	4.41	8202 0501 13

<sup>a</sup>With a safety factor of 3 at 20°C (at the max temp of +60°C the working pressure should be reduced by 50%).



## PVC Hose for heavy-duty applications

PVC hose has high resistance to abrasion, which makes it the ideal hose for tough working environments. It is mainly recommended for indoor use.

- Long service life.
- Pliable.
- Transparent.
- Working temperature -15°C to +60°C.

Model	Hose inside dia		Hose outside dia mm	Max working pressure <sup>a</sup> bar	Max rec. air flow <sup>b</sup> l/s	Weight per 30 m coil kg	Ordering No.
	mm	in					
PVC 03	3.2	1/8	7	20	0.7	1.4	9093 0037 21
PVC 05	5	3/16	9	10	2.1	1.9	9093 0037 51
PVC 06	6.3	1/4	11	10	4	2.5	9093 0037 81
PVC 08	8	5/16	12	10	7.5	2.9	9093 0038 11
PVC 10	10	3/8	14	14	13	3.7	9093 0038 41
PVC 13	12.5	1/2	18	13	21	5.9	9093 0038 71
PVC 16	16	5/8	22	12	43	7.2	9093 0039 01
PVC 20	19	3/4	25	10	75	8.3	9093 0039 31
PVC 25	25	1	32	10	125	12.5	9093 0039 61

<sup>a</sup>With a safety factor of 3 at 20°C (at the max temp of +60°C the working pressure should be reduced by 50%).

<sup>b</sup>The pressure drop will be 0.2 bar on a hose length of 5 m.



## POLUR High resistance polyurethane hose

Polur hose is the most environmentally friendly solution. It has high resistance to abrasion and it is oil resistant. Polur hose has a much longer lifetime than PVC hoses. Polur is ideal in tough working conditions due to its flexibility, even at minus degrees. Polur is recommended for indoor and outdoor use.

- Oil resistant.
- Flexible.
- Long service life.
- Working temperature -30°C to +60°C.

Model	Hose inside dia		Hose outside dia mm	Max working pressure <sup>a</sup> bar	Max rec. air flow <sup>b</sup> l/s	Weight per 25 m coil kg	Ordering No.
	mm	in					
POLUR 08	8	5/16	12	20	7.5	2.2	8202 0601 08
POLUR 10	10	3/8	14	16	13	2.5	8202 0602 10
POLUR 13	13	1/2	18	13	21	4.0	8202 0603 13

<sup>a</sup>With a safety factor of 3 at 20°C (at the max temp of +60°C the working pressure should be reduced by 50%).

<sup>b</sup>The pressure drop will be 0.2 bar on a hose length of 5 m, including 2 nipples and at an inlet pressure of 7 bar.

# Spiral hoses



## SPI Elastic hose for vertical and horizontal applications

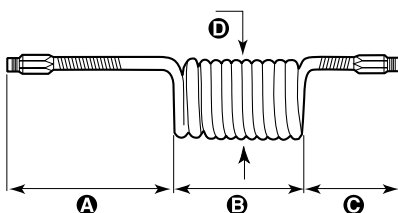
SPI elastic spiral hose is ideal for air tools used at varying distances from a fixed air outlet. It is easily stretched and retracts immediately when released. When used with hand tools, its self-storage principle ensures that the hose is kept off the floor and out of the way of the operator. The SPI 1 and SPI 2 have ball bearing swivels fitted on the long hose side to allow 360° rotation. All spiral hoses, except the SPI4, are fitted with plastic spring guard. SPI is the ideal hose in combination with a balancer.

- Self-retractable.
- Light and flexible.
- Strong and durable.
- Tubing material: Polyurethane (100% PUR).
- Hardness: Shore A 98 +2.
- Colour: Blue.
- Working pressure: 8 bar at 23°C.
- Burst pressure: 25 bar at 23°C.
- Temperature range: -40°C to +70°C.

Model	Hose inside dia mm	Hose outside dia mm	Max. rec. air flow <sup>a</sup> l/s	Working range m	Length			Max spiral dia (D) mm	Male threads in BSP	Ordering No.
					(A) mm	(B) mm	(C) mm			
SPI 1SPSW-S	6.5	10	7	2	500	165	150	55	1/4	8202 0508 71
SPI 1SPSW-M	6.5	10	5	4	500	330	150	55	1/4	8202 0508 73
SPI 2SPSW-S	8	12	13	2	500	130	150	70	3/8	8202 0508 75
SPI 2SPSW-M	8	12	10	4	500	270	150	70	3/8	8202 0508 77
SPI 2SPSW-L	8	12	9	6	500	435	150	70	3/8	8202 0508 79
SPI 2SPSW-XL	8	12	6	8	500	600	150	70	3/8	8202 0508 81
SPI 3SP-S	11	16	25	2	500	185	150	98	3/8	8202 0508 82
SPI 3SP-M	11	16	22	4	500	250	150	98	3/8	8202 0508 84
SPI 3SP-L	11	16	17	6	500	390	150	98	3/8	8202 0508 86
SPI 3SP-XL	11	16	13	8	500	550	150	98	3/8	8202 0508 88
SPI 4SP-XXL	13	19	21	10	500	850	500	115	3/8	8202 0508 90

<sup>a</sup> At inlet pressure 6 bar and pressure drop 0.5 bar.

## Dimensions



# Productivity kits



Productivity kits boost productivity, extend tool lifetime and ensure minimum pressure drop. Each productivity kit includes a ball valve, air preparation unit, and the couplings, hose and nipples needed for correct and safe installation of the tool. Just choose the correct productivity kit based on the air flow requirement of the tool and whether the tool needs lubrication or not. You'll be surprised how much the productivity kit improves the performance of the tool.

## Productivity kits for screwdrivers, drills and grinders

Model	Economical air flow	Max air flow	Hose, 5 m	Coupling	Lubrication	Ordering No.
<b>For small screwdrivers and small drills with 1/8" BSP air inlet</b>						
MIDI Optimizer F/RD EQ08-C06-1/8	4 l/s	6 l/s	Cabclair 6 mm	ErgoQIC 08	Yes	8202 0850 10
MIDI Optimizer F/R EQ08-C06-1/8	4 l/s	6 l/s	Cabclair 6 mm	ErgoQIC 08	No	8202 0850 19
<b>For screwdrivers and drills with 1/4" BSP air inlet</b>						
MIDI Optimizer F/RD EQ08-C08	7.5 l/s	9 l/s	Cabclair 8 mm	ErgoQIC 08	Yes	8202 0850 00
MIDI Optimizer F/R EQ08-C08	7.5 l/s	9 l/s	Cabclair 8 mm	ErgoQIC 08	No	8202 0850 01
<b>For 1/2" drills and small nutrunners with 3/8" BSP air inlet</b>						
MIDI Optimizer F/RD EQ08-C10	13 l/s	16 l/s	Cabclair 10 mm	ErgoQIC 08	Yes	8202 0850 07
<b>For 1/2" small nutrunners with 1/4" BSP air inlet</b>						
MIDI Optimizer F/RD EQ08-C10	13 l/s	16 l/s	Cabclair 10 mm	ErgoQIC 08	Yes	8202 0850 03
MIDI Optimizer F/RD EQ10-R10	13 l/s	16 l/s	Rubair 10 mm	ErgoQIC 10	Yes	8202 0850 16
<b>For percussive tools and grinders with 3/8" BSP air inlet incl. whip hose</b>						
MIDI Optimizer F/RD EQ10-R13-W	21 l/s	23 l/s	Rubair 13 mm	ErgoQIC 10	Yes	8202 0850 14
<b>For percussive tools and grinders, incl. whip hose, no tool nipple included</b>						
MIDI Optimizer F/RD EQ10-R13-W	21 l/s	23 l/s	Rubair 13 mm	ErgoQIC 10	Yes	8202 0850 15
<b>For drills and nutrunners with 3/8" BSP air inlet</b>						
MIDI Optimizer F/RD EQ10-C13	21 l/s	23 l/s	Cabclair 13 mm	ErgoQIC 10	Yes	8202 0850 02
<b>For drills and nutrunners with 1/4" BSP air inlet</b>						
MIDI Optimizer F/RD EQ10-C13-1/4	21 l/s	23 l/s	Cabclair 13 mm	ErgoQIC 10	Yes	8202 0850 11
<b>For grinders and nutrunners with 3/8" BSP air inlet</b>						
MIDI Optimizer F/RD EQ10-T13	21 l/s	35 l/s	Turbo 13 mm	ErgoQIC 10	Yes	8202 0850 17
<b>For grinders and nutrunners with 1/2" BSP air inlet</b>						
MIDI Optimizer F/R EQ10-T13	21 l/s	35 l/s	Turbo 13 mm	ErgoQIC 10	No	8202 0850 04
MIDI Optimizer F/RD EQ10-T13	21 l/s	35 l/s	Turbo 13 mm	ErgoQIC 10	Yes	8202 0850 13
<b>For grinders with 1/2" BSP air inlet</b>						
MIDI Optimizer F/RD EQ10-T16	31 l/s	40 l/s	Turbo 16 mm	ErgoQIC 10	Yes	8202 0850 12
<b>For large Turbo grinders with 1/2" BSP air inlet</b>						
MAXI F/R C-T16	43 l/s	60 l/s	Turbo 16 mm	Claw	No	8202 0850 05
<b>For large Turbo grinders with 1/2" BSP air inlet</b>						
MAXI F/RD C-T20	65 l/s	65 l/s	Turbo 20 mm	Claw	Yes	8202 0850 20

## Productivity kits for impact wrenches and pulse tools

Model	Economical air flow	Max air flow	Hose, 5 m	Coupling	Lubrication	Ordering No.
<b>For small impacts and pulse tools with 1/4" BSP air inlet</b>						
MIDI Optimizer F/RD EP EQ08-C08	7.5 l/s	9 l/s	Cabclair 8 mm	ErgoQIC 08	Yes	8202 0850 35
<b>For 1/2" impact wrenches and pulse tools with 3/8" BSP air inlet</b>						
MIDI Optimizer F/RD EQ08-C10	13 l/s	16 l/s	Cabclair 10 mm	ErgoQIC 08	Yes	8202 0850 36
<b>For 1/2" impact wrenches and pulse tools with 1/4" BSP air inlet</b>						
MIDI Optimizer F/RD EQ08-C10	13 l/s	16 l/s	Cabclair 10 mm	ErgoQIC 08	Yes	8202 0850 37
MIDI Optimizer F/RD EQ10-R10	13 l/s	16 l/s	Rubair 10 mm	ErgoQIC 10	Yes	8202 0850 38
<b>For impact wrenches and pulse tools with 3/8" BSP air inlet</b>						
MIDI Optimizer F/RD EQ10-C13	21 l/s	23 l/s	Cabclair 13 mm	ErgoQIC 10	Yes	8202 0850 39
<b>For impact wrenches and pulse tools with 1/2" BSP air inlet</b>						
MIDI Optimizer F/RD EQ10-T13	21 l/s	35 l/s	Turbo 13 mm	ErgoQIC 10	Yes	8202 0850 41



# Hose kits



## Pre-mounted hose kits

Atlas Copco hose kits give you the correct combination of hose and coupling so that you don't need to spend time choosing and mounting.

- Correct combination hose – coupling.
- Immediate use.

Hose	Dia mm	Length m	Nipple	Coupling	Air inlet thread nipple	Ordering No.
Cablaire	6	5	ErgoNIP 08	ErgoQIC 08	-	8202 1182 01
Cablaire	6	5	NIP 08	ErgoQIC 08US	-	8202 1182 16
Cablaire	6	5	ErgoNIP 10	ErgoQIC 10	1/8" BSP	8202 1180 67
Cablaire	6	5	ErgoNIP 10	ErgoQIC 10	1/4" BSP	8202 1182 01
Cablaire	8	5	ErgoNIP 08	ErgoQIC 08	1/4" BSP	8202 1182 02
Cablaire	8	5	NIP 08	ErgoQIC 08US	-	8202 1182 21
Cablaire	8	5	ErgoNIP 10	ErgoQIC 08	1/4" BSP	8202 1180 77
Cablaire	10	5	ErgoNIP 08	ErgoQIC 08	1/4" BSP	8202 1182 03
Cablaire	10	5	ErgoNIP 10	ErgoQIC 10	1/8" BSP	8202 1180 30
Cablaire	13	5	ErgoNIP 10	ErgoQIC 10	3/8" BSP	8202 1180 79
Cablaire	13	5	ErgoNIP 10	ErgoQIC 10	-	8202 1182 10
Cablaire	13	5	NIP 10US	ErgoQIC 10US	-	8202 1182 18
Cablaire	13	8.5	ErgoNIP 10	ErgoQIC 10	-	8202 1182 20
Cablaire	13	10	ErgoNIP 10	ErgoQIC 10	-	8202 1182 15
PVC	10	5	ErgoNIP 10	ErgoQIC 10	1/4" BSP	8202 1180 18
PVC	10	5	ErgoNIP 10	ErgoQIC 08	3/8" BSP	8202 1180 31
Rubair	10	5	ErgoNIP 10	ErgoQIC 10	3/8" BSP	8202 1180 20
Rubair	10	5	ErgoNIP 10	ErgoQIC 10	1/4" BSP	8202 1180 43
Rubair	13	5	NIP 10US	ErgoQIC 10US	-	8202 1182 24
Rubair	20	5	CLAW	ErgoQIC 10	-	8202 1180 24
Turbo	13	5	ErgoNIP 10	ErgoQIC 10	1/2" BSP	8202 1180 22
Turbo	13	5	NIP 10US	ErgoQIC 10US	-	8202 1182 19
Turbo	16	5	ErgoNIP 10	ErgoQIC 10	-	8202 1180 34
Turbo	16	5	CLAW	ErgoQIC 10	1/2" BSP	8202 1181 80
Turbo	16	5	NIP 15US	ErgoQIC 15US	-	8202 1182 22
Turbo	16	10	ErgoNIP 10	ErgoQIC 10	-	8202 1180 46
Turbo	20	20	CLAW	ErgoQIC 10	-	8202 1181 75



### Pre-mounted whip hoses

If a quick coupling is used together with a vibrating tool, such as a percussive tool, impact wrench, grinder or impulse tool, we recommend it should be separated from the tool by a whip hose (length 0.5 m).

Hose	Dia mm	Length m	Nipple	Male thread	Ordering No.
Cablair	10	0.7	ErgoNIP 10	1/4" BSPT	8202 1180 19
Cablair	10	1.5	ErgoNIP 10	1/4" BSPT	8202 1182 30
Cablair	10	1.5	ErgoNIP 10	3/8" BSPT	8202 1182 35
Cablair	10	0.7	ErgoNIP 08	1/4" BSPT	8202 1180 47
PVC	10	0.7	ErgoNIP 08	3/8" BSPT	8202 1180 50
Rubair	10	0.7	ErgoNIP 10	1/4" BSPT	8202 1180 42
Rubair	10	0.7	ErgoNIP 10	3/8" BSPT	8202 1180 44
Rubair	13	0.7	ErgoNIP 10	1/2" BSPT	8202 1180 23
Rubair	16	0.5	ErgoNIP 10	1/2" BSPT	8202 1180 28
Rubair	16	0.5	CLAW	1/2" BSPT	8202 1180 37
Turbo	16	5	CLAW	1/2" BSPT	8202 1181 95