



Installation kit

for the installation of gas mixers using copper pipe

WITT can supply all gas safety equipment for your gas supply system and the installation of your gas mixers. The proposed scheme is based on our long experience and is recommended. The equipment and design meet all current regulations for all gas supply systems. Our safety equipment is designed to be compatible with our mixers to ensure reliable and safe operation.

Gases

WITT safety valves can be used for the following technical gases: Oxygen (O₂), Hydrogen (H₂), Argon (Ar), Nitrogen (N₂), Carbon Dioxide (CO₂); Natural Gas (CH₄), Helium (He), Air and SF₆. Please specify the gas for these and for the regulators.

Pipe diameter

The minimum pipe diameter needed has to be defined. Typical pipe diameter for connecting with our gas mixers are usually as follows:

Copper pipe – outer diameter (O.D.)	Gas mixer – type
10 mm	KM 100
15 mm	KM 300, MG 50, MG 100
22 mm	MG 100, MG 200

Minimum value of order: 80,- Euro

For copper pipe – outer diameter O.D. 10 mm		
Ref.	Art.-Nr.	Description
FD	044.....	Cylinder regulator, P _v max = 300 bar, input DIN 477, output G 1/4 male
R	37.008	Non-return valve, G 1/2 female, max. 16 bar
SK	150.017/151.016	Hose coupling SK 100-3, body 1/4" BSP + Coupling 8mm
KH	198.207.070	Ball valve, DN8-PN25, 3/8" BSP female
KH1	198.207.075	Ball valve, DN8-PN40, 3/8" BSP female
KH2	198.003.031	Ball valve; DN4-PN16, 1/4" BSP female
LD	956.653.000	Regulator for pipeline, P _v max = 40 bar, P _h = 0,5 – 25 bar, 1/2" BSP female, incl.gauge
LD1	956.653.300	Regulator for pipeline = 25 bar, P _h = 0,5 – 10 bar, 3/8" BSP female, incl. gauge
Y	200.522	Safety relief valve 805, opening pressure 25 bar, 3/8" BSP male – M24x1 female
X0	956.655.100	Soldering nipple combination, 3/8" BSP male –OR – pipe O.D. = 18 mm, max. 40 bar
X1	956.650.100	Soldering nipple combination, 3/8" BSP male –OR – pipe O.D. = 10 mm, max. 40 bar
X2	956.650.200	Soldering nipple combination, 1/2" BSP male –OR – pipe O.D. = 10 mm, max. 40 bar
X3	956.532.000	WITTFIX-pipe coupling, straight, 3/8" BSP male – pipe O.D. = 10 mm, max. 25 bar
X4	956.650.300	WITTFIX-pipe coupling, straight, 1/4" BSP male – pipe O.D. = 10 mm, max. 25 bar
X5	956.543.800	WITTFIX-pipe coupling, straight, 1/4" BSP male – pipe O.D. = 6 mm, max. 25 bar
X6	956.544.100	WITTFIX-pipe coupling, straight, 3/8" BSP male – pipe O.D. = 6 mm, max. 25 bar
X7	956.559.000	WITTFIX-pipe coupling, straight, 1/2" BSP male – pipe O.D. = 10 mm, max. 25 bar
X8	956.655.400	Plug, 3/8" BSP male –OR – 1/2" BSP MG
XT1	956.650.400	WITTFIX-pipe coupling, T, 2x Pipe O.D. = 10 mm, 1x 3/8" BSP female, max. 25 bar
XK	956.650.600	WITTFIX-pipe coupling cross, 3x Pipe O.D. = 10 mm, 1x pipe O.D. = 6 mm, max. 25 bar
XT2	956.650.700	WITTFIX-pipe coupling, I, 3x pipe O.D. = 10 mm, max. 25 bar

For copper pipe – outer diameter O.D. 15 mm

Ref	Art.-Nr.	Description
R	037.008	Non-return valve, 1/2" BSP Female, max. 16 bar
KH	198.209090	Ball valve, DN12–PN25, 1/2" BSP Female
KH1	198.202092	Ball valve, DN12–PN40, 1/2" BSP Female
KH2	800.017100	Ball valve, DN4–PN16, 1/4" BSP Female
LD	956.653000	Regulator for pipeline, P _{max} = 40 bar, Ph = 0,5 – 25 bar, 1/2" BSP Female, incl.gauge
LD1	956.653300	Regulator for pipeline, P _{max} = 25 bar, Ph = 0,5 – 10 bar, 3/8" BSP Female, incl.gauge
Y	800.505200	Safety relief valve, openend pressure 25 bar, 1/2" BSP Female
X0	956.655200	Soldering nipple combination, 1/2" BSP Male–OR – pipe O.D. = 18 mm, max. 40 bar
X1	956.650800	Soldering nipple combination, 1/2" BSP Male–OR – pipe O.D. = 15 mm, max. 40 bar
X2	956.650800	Soldering nipple combination, 1/2" BSP Male–OR – pipe O.D. = 15 mm, max. 40 bar
X3	956.657700	WITTFIX–pipe coupling, straight, 1/2" BSP Male – pipe O.D. = 15 mm, max. 25 bar
X5	956.543800	WITTFIX–pipe coupling, straight, 1/4" BSP Male – pipe O.D. = 6 mm, max. 25 bar
X6	956.544100	WITTFIX–pipe coupling, straight, 3/8" BSP Male – pipe O.D. = 6 mm, max. 25 bar
X7	956.657700	WITTFIX–pipe coupling, straight, 1/2" BSP Male – pipe O.D. = 15 mm, max. 25 bar
X8	956.655500	Plug, 1/2" BSP Male –OR – G 1/2 MG
XT1	956.650900	WITTFIX–pipe coupling, T–, 2x Rohr O.D. = 15 mm, 1x 1/2 AG, max. 25 bar
XK	956.651000	WITTFIX–pipe coupling, cross, 3x pipe O.D. = 15 mm, 1x pipe O.D. = 6 mm, max. 25 bar
XT2	956.651100	WITTFIX–pipe coupling, T, 3x pipe O.D. = 15 mm, max. 25 bar

For copper pipe – outer diameter O.D. 22 mm

Ref	Art.-Nr.	Description
R	037.010	Description
KH	198.213130	Non return valve, 1" BSP female, max. 16 bar
KH1	198.213131	Ball valve, DN25–PN25, 1" BSP female
KH2	800.017100	Ball valve, DN25–PN40, 1" BSP female
LD	956.653100	Ball valve, DN4–PN16, 1/4" BSP female
LD1	956.653300	Regulator for pipeline, P _{max} = 40 bar, Ph = 0,5 – 25 bar, 1" BSP female, incl.gauge
Y	800.505300	Regulator for pipeline, P _{max} = 25 bar, Ph = 0,5 – 10 bar, G 3/8" BSP female, incl. gauge
X0	956.655300	Safety relief valve, SV 851, open pressure 25 bar, 3/4" BSP female
X1	956.651200	Soldering nipple combination, 1" BSP male–OR – pipe O.D. = 18 mm, max. 40 bar
X2	956.651200	Soldering nipple combination, 1" BSP male–OR – pipe O.D. = 22 mm, max. 40 bar
X3	956.657800	Soldering nipple combination, 1" BSP male–OR – pipe O.D. = 22 mm, max. 40 bar
X5	956.543800	WITTFIX–pipe coupling, straight, 1" BSP male – pipe O.D. = 22 mm, max. 25 bar
X6	956.544100	WITTFIX–pipe coupling, straight 1/4" BSP male – pipe O.D. = 6 mm, max. 25 bar
X7	956.657800	WITTFIX–pipe coupling, straight 3/8" BSP male – pipe O.D. = 6 mm, max. 25 bar
X8	956.655600	WITTFIX–pipe coupling, straight, 1" BSP male – pipe O.D. = 22 mm, max. 25 bar
XT1	956.651300	Plug, 1" BSP male –OR – 1/2 MG
XK	956.651400	WITTFIX–pipe coupling, T, 2x pipe O.D. = 22 mm, 1x 3/4" BSP male, max. 25 bar
XT2	956.651500	WITTFIX–pipe coupling, cross, 3x pipe O.D. = 22 mm, 1x pipe O.D. = 6 mm, max. 25 bar