

MM70-1 ACETYLENE – DRUVA® TEC MANIFOLD

MANIFOLD WITH MANUAL QUICK-ACTING SHUT-OFF DEVICE | ACETYLENE LINE (BRASS) | 1m³ SERIES | ONE INLET | ACCORDING TO SO14114-2014

Manifold for use of Acetylene gas supply



TECHNICAL SPECIFICATION

- > Manual quick-acting shut-off device at inlet pressure side according to ISO 15615
- > Pressure regulator development and production according to the requirements of ISO 7291 including the Acetylene decomposition test
- > Complete manifold- Electrostatic chargeability test
 - Fulfill requirements according ISO 80079-36; IEC TS 60079-32-1 and German TRGS 727
 - Usable in EX-areas zones 1 and 2 for gases with explosion risk group I; IIA; IIB; IIC

TECHNICAL DATA – MANIFOLD

Inlet pressure:	25 bar
Outlet pressure:	1,5 bar adjustable
Nominal flow:	1 m³/h (max. 1 Acetylene cylinder is emptied)
Working temperature:	-20 °C to +60 °C
Weight:	5,0 kg
Inlet:	W21,8x1/14" LH male
Outlet process gas:	G ½" male
Outlet relief valve:	M12x1 mm male
Leakage rate against atmosphere:	<10 cm³ /h (23 °C; 1,013 bar absolute) compressed air
Test in production:	Tightness and function tests with synthetic air

TECHNICAL DATA – PRESSURE REGULATOR

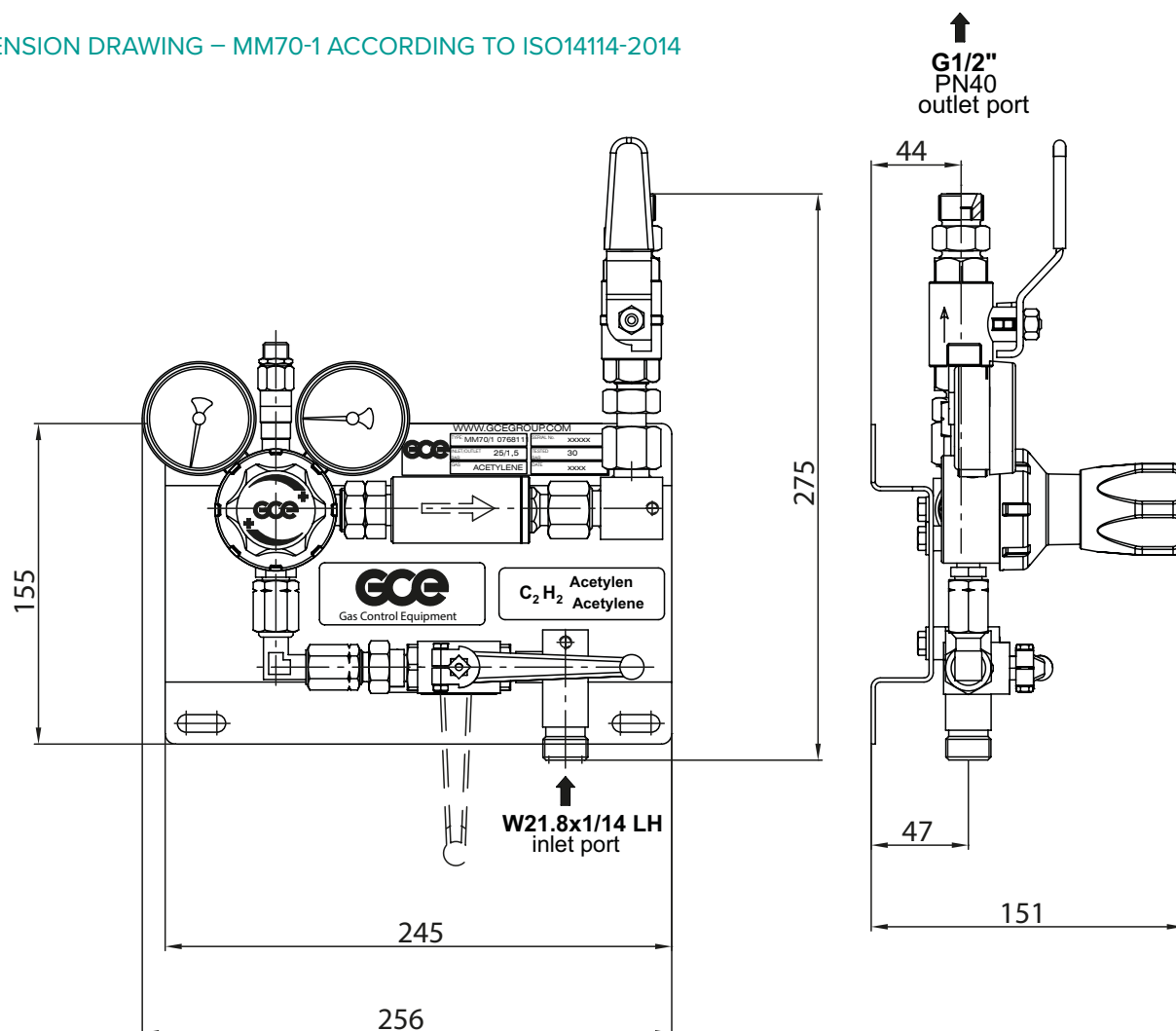
Inlet connection:	G 3/8" LH (EN560)
Outlet connection:	NPT ¼" internal thread
Filter Inlet:	100 µm
Material gas wetted parts	
Body:	Brass
Diaphragm:	EPDM
Seat:	Chloroprene rubber
Poppet:	Brass
Display Inlet gauge:	40 bar
Display outlet gauge:	2,5 bar
Opening pressure relief valve:	1,75- 2,5 bar
Test during development:	Type test in accordance with ISO 10297
	Electrostatic chargeability test
	<ul style="list-style-type: none"> • Fulfill requirements according ISO 80079-36; IEC TS 60079-32-1 and German TRGS 727 • Usable in EX-areas zones 1 and 2 for gases with explosion risk group I; IIA; IIB; IIC

TECHNICAL DATA – MANUAL QUICK-ACTING SHUT-OFF DEVICE

Max. working pressure:	25 bar
Safety pressure:	315 bar
Testing during product development and monitoring in production:	BAM type testing and production monitoring according to ISO 15615
Material gas wetted parts	
Body:	Galvenised steel
Ball:	Steel hard chrome plated
Gearshift:	Galvenised steel
Ball-, body-, spindle seal:	EPDM

TECHNICAL DATA		SAFETY DEVICE ACCORDING TO ISO 5175 WITH INTEGRATED NON-RETURN VALVE, FLAME ARRESTER AND TEMPERATURE-CONTROLLED AFTERFLOW ARRESTER				
Max. working pressure:	1,5 bar (Acetylene)					
Opening pressure:	50- 70 mbar					
Filter:	1x dust filter					
Material of gas wetted metallic parts:	Brass					
Material gas wetted spring:	1.4310					
TECHNICAL DATA – BALL VALVE ON OUTLET PRESSURE SIDE						
Material gass wetted parts						
Body:	Brass nickel-plated					
Ball:	Brass hard chrome-plated					
Ball seal:	PTFE					
Gearshift:	EPDM					
Nominal width (free passage)	13 mm					
Max. working pressure:	1,5 bar					
MOUNTING BRACKET						
Dimensions (width x height x depth):	256 x 155 x 30 mm					
Material:	Stainless steel					
ORDERING INFORMATION						
Part no.	Description	Gas	Inlet pressure	Outlet pressure	Inlet	Outlet
0768111	MM70/1	Acetylene	25 bar	1,5 bar	W21,8x1/14"LH	G1/2" m

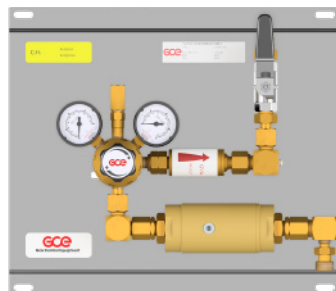
DIMENSION DRAWING – MM70-1 ACCORDING TO ISO14114-2014



MM70-1 AQASOD ACETYLENE – DRUVA®TEC MANIFOLD

MANIFOLD WITH AUTOMATIC QUICK-ACTING SHUT-OFF DEVICE | ACETYLENE LINE (BRASS) | 1m³ SERIES | ONE INLET | ACCORDING TO ISO14114-2018

Manifold for use of Acetylene gas supply



TECHNICAL SPECIFICATION

- > Automatic quick-acting shut-off device according to ISO 15615 (**AQASOD**)
- > Pressure regulator development and production according to the requirements of ISO 7291 including the Acetylene decomposition test
- > Complete manifold- Electrostatic chargeability test
 - Fulfill requirements according ISO 80079-36; IEC TS 60079-32-1 and German TRGS 727
 - Usable in EX-areas zones 1 and 2 for gases with explosion risk group I; IIA; IIB; IIC

TECHNICAL DATA – MANIFOLD

Inlet pressure:	max. 25 bar
Outlet pressure:	1,5 bar adjustable
Nominal flow:	1 m³/h (max. 1 Acetylene cylinder is emptied)
Working temperature:	-20 °C to +60 °C
Weight:	5,2 kg
Inlet:	W21,8x1/14" LH male
Outlet process gas:	G ½" male (EN 560)
Outlet relief valve:	NPT ¼" female
Leakage rate against atmosphere:	<10 cm³ /h (23 °C; 1,013 bar absolute) compressed air
Test in production:	Tightness and function tests with synthetic air

TECHNICAL DATA – PRESSURE REGULATOR

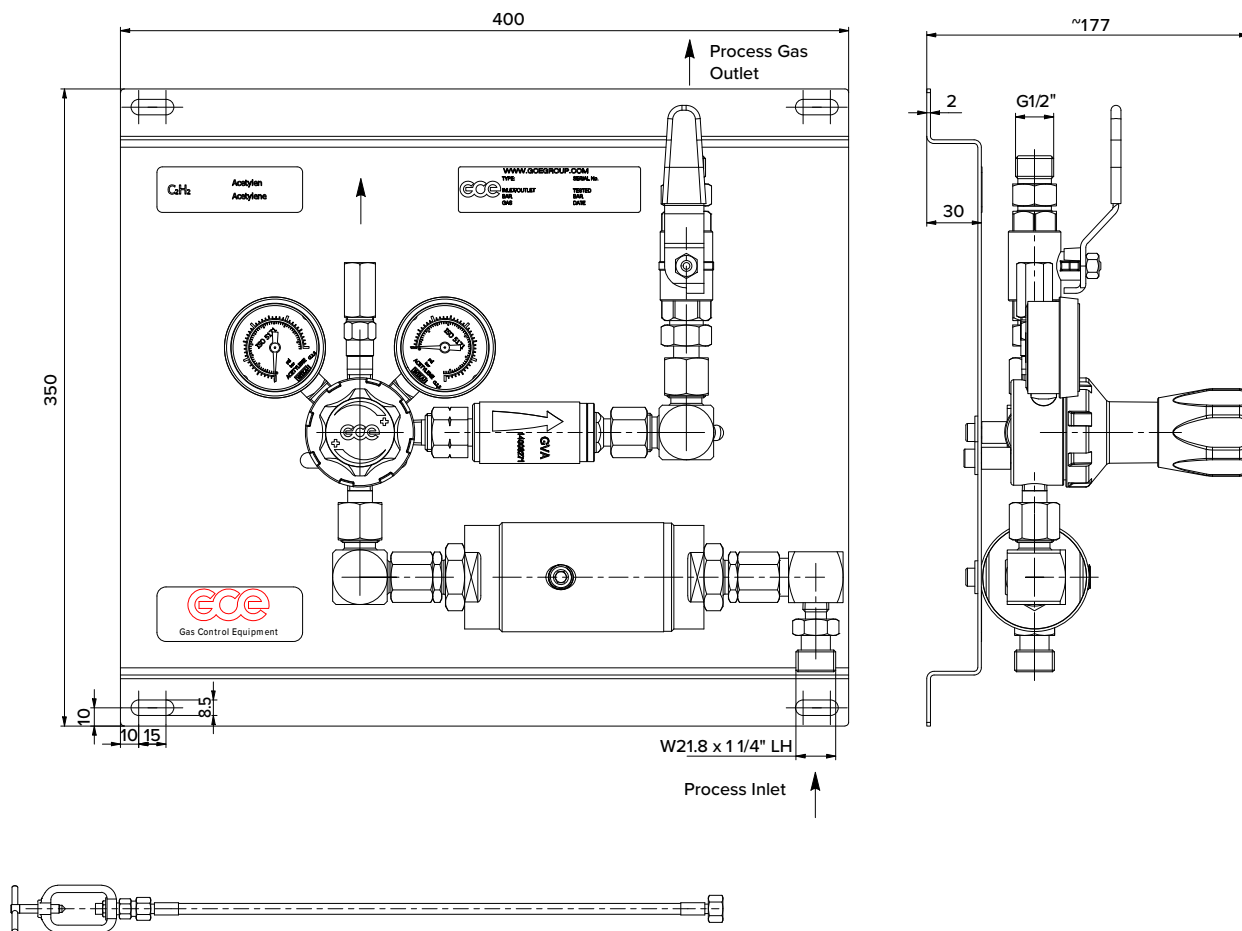
Inletsanschluss	G 3/8" LH (EN560)
Ausgangsanschluss	NPT ¼" Innengewinde
Filter Inlet:	100 µm
Material gas wetted parts:	
Body:	Brass
Diaphragm:	EPDM
Seat:	Chloroprene rubber
Poppet:	Brass
Display inlet gauge:	40 bar
Display outlet gauge:	2,5 bar
Opening pressure relief valve:	1,75- 2,5 bar
Test during development:	Type test in accordance with ISO 10297
	Electrostatic chargeability test
	<ul style="list-style-type: none"> • Fulfill requirements according ISO 80079-36; IEC TS 60079-32-1 and German TRGS 727 • Usable in EX-areas zones 1 and 2 for gases with explosion risk group I; IIA; IIB; IIC

TECHNICAL DATA – AUTOMATIC QUICK-ACTING SHUT-OFF DEVICE

Max. working pressure:	25 bar
Safety pressure:	315 bar
Testing during product development and monitoring in production:	BAM type testing and production monitoring according to ISO 15615
Material gas wetted parts	
Body:	Brass
Valve piston:	Brass
Spring:	HS3/ND3
O-Ring:	EPDM
Seat material:	PTFE

TECHNICAL DATA		SAFETY DEVICE ACCORDING TO ISO 5175 WITH INTEGRATED NON-RETURN VALVE, FLAME ARRESTER AND TEMPERATURE-CONTROLLED AFTERFLOW ARRESTER				
Max. Working pressure:		1,5 bar (Acetylene)				
Opening pressure:		50- 70 mbar				
Filter:		1x dust filter				
Material of gas wetted metallic parts:		Brass				
Material gas wetted spring:		1.4310				
TECHNICAL DATA – BALL VALVE ON OUTLET PRESSURE SIDE						
Material gas wetted parts						
Body:		Brass nickel-plated				
Ball:		Brass hard chrome-plated				
Ball seal:		PTFE				
Gearshift:		EPDM				
Nominal width (free passage):		13 mm				
Max. working pressure:		1,5 bar				
MOUNTING BRACKET						
Dimensions (width x height x depth):		400 x 350 x 30 mm				
Material:		Stainless steel				
ORDERING INFORMATION						
Part no.	Description	Gas	Inlet pressure	Outlet pressure	Inlet	Outlet
F27310033	MM70/1 AQASOD	Acetylene	25 bar	1,5 bar	W21,8x1/14“LH	G1/2" m

DIMENSION DRAWING – MM70-1 AQASOD – ACCORDING TO ISO14114-2018



Inlet pressure hose according to the relevant national standard including the check valve