MM70-2 ACETYLENE – DRUVA®TEC MANIFOLD

MANIFOLD WITH MANUAL QUICK-ACTING SHUT-OFF DEVICE | ACETYLENE LINE (BRASS) | 1m³ SERIES | TWO INLETS | MANUAL CHANGEOVER | ACCORDING TO ISO14114-2014

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:	6,8 kg		
Inlet:	W21,8x1/14"LH male		
Outlet process gas:	G ½" male (EN560)		
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 REGULA	TOR		
Inlet connection	G 3/8" LH (EN560)		
Outlet connection	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 developement:	Type test in accordance with ISO 10297 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 - MANUAL QUICK-AC	TING 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		

EPDM

Ball-, body-, spindle seal:



GCE CENTRAL GAS SYSTEMS

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 C Material gass wetted parts	DUTLET PRESS	URE SIDE			
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):	nsions (width x height x depth): 400 x 155 x 30 mm				
Material:	Stainless steel				
ORDERING INFORMATION					
Part no. Description	Gas	Inlet	Outlet	Inlet	Outlet

25 bar

1,5 bar

W21,8×1/14"LH

G1/2" m



0768140

MM70/2

Acetylene



MM70-2 AQASOD ACETYLENE – DRUVA®TEC MANIFOLD

MANIFOLD WITH AUTOMATIC QUICK-ACTING SHUT-OFF DEVICE | ACETYLENE LINE (BRASS) | 1m³ SERIES | TWO INLETS | MANUAL CHANGEOVER | ACCORDING TO ISO14114-2018

Manifold for use in gas supply sytems



TECHNICAL SPECIFICATION

- > Automatic quick acting shut-off device on inlet pressure site in accordance with ISO 15615 (AQASOD)
 - Pressure regulator development and production according to the requirements of ISO 7291, including acetylene disintegration testing.
- > Electrostatic chargeability test for the complete manifold
 - Fulfills requirements according to 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 m ³ /h (max. 1 Acetylene cylinder is emptied)
Working temperature:	-20 °C to +60 °C
Weight:	7,2 kg
Inlet:	W21,8x1/14"LH male
Outlet process gas:	G 1⁄2" male
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 G 3/8" LH (EN560) Inlet connection: Outlet connection: NPT ¼" inlet thread Filter Inlet: 100 µm Material gas wetted parts Body: Brass Diaphragm: EPDM Seat: Chloropren-Kautschuk Poppet: Brass 40 bar **Display Inlet gauge:** Display outlet gauge: 2,5 bar

Opening pressure relief valve:	1,75- 2,5 bar
	Type test in accordance with ISO 10297
Test during developement:	 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 – 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		

GCE CENTRAL GAS SYSTEMS

TECHNICAL D	ATA	SAFETY DEVICE ACCORDING TO ISO 5175 WITH INTEGRATED NON-RETURN VALVE, FLAME ARRESTER AND TEMPERATURE-CONTROLLED AFTERFLOW ARRESTER					
Max. Working p	ressure:	1,5 bar (Acetylene)					
Opening pressu	ıre:	50- 70 mbar					
Filter:		1x dust filter					
Material of gas	wetted metallic parts:	Brass					
Material gas we	etted spring:	1.4310					
TECHNICAL D	ATA - BALL VALVE ON C		URE SIDE				
Material gas we	etted 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 BR	ACKET						
Dimensions (width x height x depth):		400 x 470 x 30 mm					
Material:		Stainless steel					
ORDERING IN	FORMATION						
Part no.	Description	Gas	Inlet pressur <u>e</u>	Outlet pressur <u>e</u>	Inlet	Outlet	
F27310034	MM70/2 AQASOD	Acetylene	25 bar	1,5 bar	W21,8×1/14"LH	G1/2" m	

DIMENSION DRAWING - MM70-2 AQASOD - ACCORDING TO ISO14114-2018





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