

Quick-action coupling (Coupling with gas shut-off valve): GKG-12

Type GKG-12 for in-hose or torch side connection

The quick-action coupling GKG-12:

- safe interruption of gas flow by automatic gas cut-off when disconnecting
- · no mixing up by different coding of coupling pins
- prevents accidental disconnection
- all metal components in brass 2.0401 / spring 1.4310

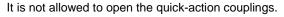
Safety elements of the IBEDA quick-action coupling GKG-12:

SV Shut-off valve

Maintenance:

Couplings are wearing parts and have to be tested by a qualified and authorised person (at least once a year). The tests have to be performed when the couplings are connected as well as disconnected.

Leakage tests are to be performed with inert gas or air (free from oil and grease) or the operating gas.







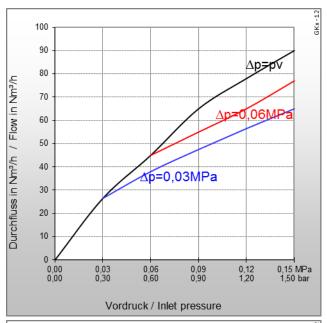
Technical Data:										
Gas types:	Acetylene (A)	Hydrogen Industrial gas	(H) (C)	Natural Gas (Methane) Propane	(M) (P)	Оху	gen	(O)	Compressed Air Nitrogen Carbon dioxide Argon Helium	(D) (N) (N) (N) (N)
Working pressure:	0,15 MPa 1,5 bar	2,0 MPa 20 bar		2,0 MPa 20 bar			2,0 MPa 20 bar			
Coupling pressure:	1,2 MPa 12,0 bar									
Gas temperature:	-20°C up to +70°C (Oxygen -20°C up to +60°C)									
Ambient temperature:	-20°C up to +70°C									
Nominal diameter:	free cross section: 12 mm									
Threads: EN 560 ISO / TR 28821	G1/2LH G1/2RH									
Measure and weight:	diamete	length:				weight:				
	41,0 mr	85,0 mm				462,0 g				
Compatible with:										
Coupling pin G2-12 and G4-12										

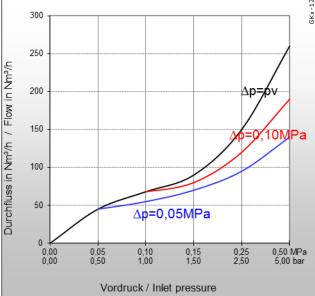
Other materials, surface finishing, gas types and additional connections available on request.

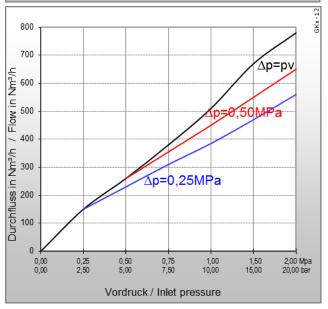


Quick-action coupling









Type: GKG-12

Flow rates [air]:

pv = Primary pressure

ph = Secondary pressure

Δp = Primary pressure minus Secondary pressure

Conversion Factors:

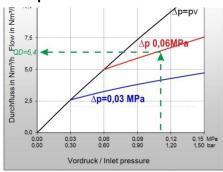
0,1 MPa = 1 bar = 100 kpa = 14,504 psi

 $1 \text{ m}^3/\text{h} = 35,31 \text{ cu ft/h}$

	Α	Н	Р	М	М	0	Е	L
QG ►	C_2H_2	H_2	C_3H_8	CH ₄ +C	CH ₄	O_2	C_2H_4	C_3H_6
F	1,2	3,8*	0,90	1,25	1,4	0,95	1,02	0,92

Conversion factor 2.5 for devices comprising a flame arrestor The conversion factor for free flow is 3.8. (Reference: BAM report 220, D. Lietze)

Example:



$$QG = QD \times F$$

QG \triangleright A = 6,4 x 1,2 = 7,68 m³/h C₂H₂

QG = flow / gas type

= conversion factor

QD = flow / air

Certification/ Technical Standards/ Rules

TRBS German Technical rules for operation safety, DVS German Association for Welding, Cutting and Allied Processes, DGUV German Employer's liability insurance association rules and regulations.

Standards/ Approvals

Company certified according to ISO 9001:2015 and ISO 14001:2015, CE-marking according to: Pressure Equipment Directive 2014/68/EU

(Subject to change without notice)

