

## Quick-action coupling (Coupling with gas shut-off valve): GKD-8

### Type GKD-8 for tapping points and pressure regulators

The quick-action coupling GKD-8:

- 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 GKD-8:

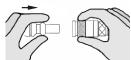
Shut-off valve

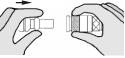
### **Function:**

Push-Systems

### Coupling:

hold the sleeve and connect it with the coupling pin by pressing both parts together until they are locked.

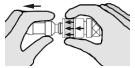








push the sleeve forward and remove the coupling pin from the coupling body.





### 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.

It is not allowed to open the quick-action couplings.

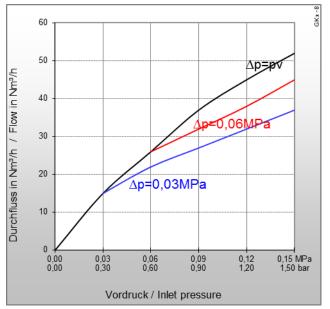
it is not allowed to open to										
Technical Data:										
Gas types:	Acetylene (A)	Hydrogen Industrial gas	(H)		(M) (P)	Оху	/gen	(O)	Compressed Air Nitrogen Carbon dioxide Argon Helium	(S, S, S, S) (S, S, S
Working pressure:	0,15 MPa 1,5 bar	2,0 MPa 20 bar		2,0 MPa 20 bar			2,0 MPa 20 bar			
Coupling pressure:	2,0 MPa 20 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: 8 mm									
Threads: EN 560 ISO / TR 28821	G1/2LH G1/2RH G3/4LH G3/4RH G1LH G1RH UNF7/8-14LH UNF7/8-14R					IRH RH				
Measure and weight:	ht: diameter:			length:			weight:			
	35,0 mm			80,0 mm			372,0 g			
Compatible with:										
_		Coupling pin	G1-8,	G2-8 and G4-8						

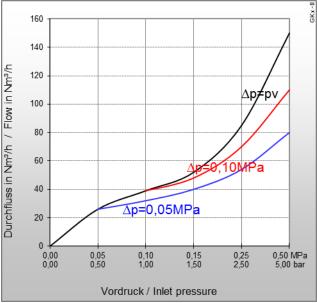
Other materials, surface finishing, gas types and additional connections available on request.

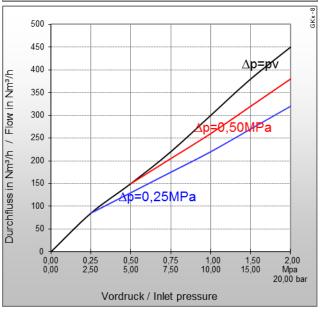


## **Quick-action coupling**









# Type: GKD-8

### Flow rates [air]:

pv = Primary pressure

ph = Secondary pressure

 $\Delta p$  = Primary pressure minus Secondary pressure

### **Conversion Factors:**

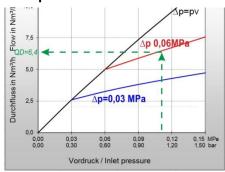
0,1 MPa = 1 bar = 100 kpa = 14,504 psi

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

	Α	Н	Р	М	М	0	Е	L
QG ►	C <sub>2</sub> H <sub>2</sub>	$H_2$	$C_3H_8$	CH <sub>4</sub> +C	CH <sub>4</sub>	$O_2$	$C_2H_4$	$C_3H_6$
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 m<sup>3</sup>/h C<sub>2</sub>H<sub>2</sub>

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)

