

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

Type NKG for in-hose or torch side connection

The quick-action coupling NKG:

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

Safety elements of the IBEDA quick-action coupling NKG:

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.

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

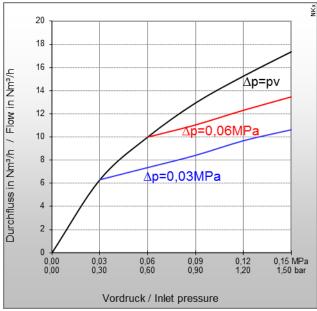
Technical Data:											
Gas types:	Acetylene (A)	Hydrogen Industrial gas	(H) (C)	Natural Gas (Methane) Propane	(M) (P)	Ox	ygen	(O)	Compressed Air Nitrogen Carbon dioxide Argon Helium	(D) (X) (X) (X) (X)	
Working pressure:	0,15 MPa 1,5 bar	2,0 MPa 20 bar		2,0 MPa 20 bar			2,0 MPa 20 bar				
Gas temperature:		-20°C u	o to +	70°C (Oxygen -	-20°C	up to +60°C)					
Ambient temperature:	-20°C up to +70°C										
Threads: EN 560 ISO / TR 28821	G3/8LH M16x1,5LH UNF9/16 UNF5/8					G1/4RH G3/8RH M16x1,5RH UNF9/16 UNF5/8					
Measure and weight:	diameter:			length:			weight:				
	20,0 mm			59,0 mm			87,0 g				
Compatible with:											
Coupling pin N1, N2 and N4											

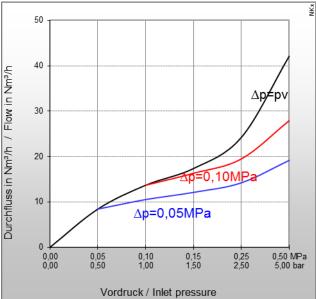
Other materials, surface finishing, gas types and additional connections available on request.

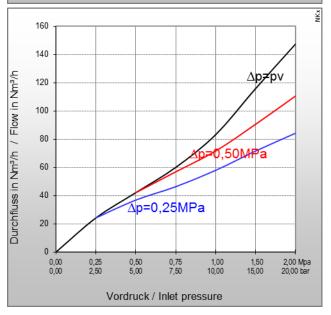


Quick-action coupling









Type: NKG

Flow rates [air]:

pv = Primary pressure

ph = Secondary pressure

 Δp = Primary pressure minus Secondary pressure

Conversion Factors:

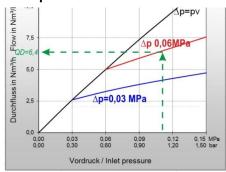
0,1 MPa = 1 bar = 100 kpa = 14,504 psi

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

	Α	Н	Р	М	М	0	Е	L
QG ►	C ₂ H 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 \blacktriangleright A = 6,4 x 1,2 = 7,68 m³/h C₂H₂

QG = flow / gas type

F = 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)

