

REGULATOR END

Regulator end quick action coupling units are designed to be fitted to the outlet of a regulator or attached safety device, the coupling pin is attached to the hose. This allows for connection and disconnection of the hose from the regulator without the use of spanners. The coupling unit and pin meet EN 561 and the double 'O' ring design ensures no leakage. It is important to note that the quick action coupling units offer no protection against flashbacks. Flashback arrestors must be fitted in oxygen / fuel gas applications.

D2 STYLE HOSE BARB PIN – HEADER CARD (MODEL: DKD)

These regulator end quick action coupling units are supplied complete with both the coupling unit and a D2 style coupling pin detailed in the table below.

Specifications	
Packaging Type	Header Card with Plastic Bag
Weight	
Nett	0.105 kg
Gross	0.110 kg
Dimensions	
Product Only	(H) 82 mm (Ø) 22 mm
With Packaging	(H) 150 mm (W) 130 mm (D) 24 mm



Part No	Gas Service	Coupling Inlet Connection	Pin Outlet Connection	Maximum Working Pressure *
QFDF5T5	Fuel Gas	5/8-18 UNF-LH Female	5 mm Hose Tail	A 150 H 2000 CMPY 2000
QODF5T5	Oxygen	5/8-18 UNF-RH Female	5 mm Hose Tail	O 2000
QFDF5T1	Fuel Gas	5/8-18 UNF-LH Female	10 mm Hose Tail	A 150 H 2000 CMPY 2000
QODF5T1	Oxygen	5/8-18 UNF-RH Female	10 mm Hose Tail	O 2000

* See flow chart page for gas type abbreviations.

D4 STYLE MALE HOSE CONNECTION PIN – HEADER CARD (MODEL: DKD)

These regulator end quick action coupling units are supplied complete with both the coupling unit and a D4 style coupling pin detailed in the table below.

Specifications	
Packaging Type	Header Card with Plastic Bag
Weight Nett Gross	0.110 kg 0.115 kg
Dimensions Product Only With Packaging	(H) 75 mm (Ø) 22 mm (H) 150 mm (W) 130 mm (D) 24 mm



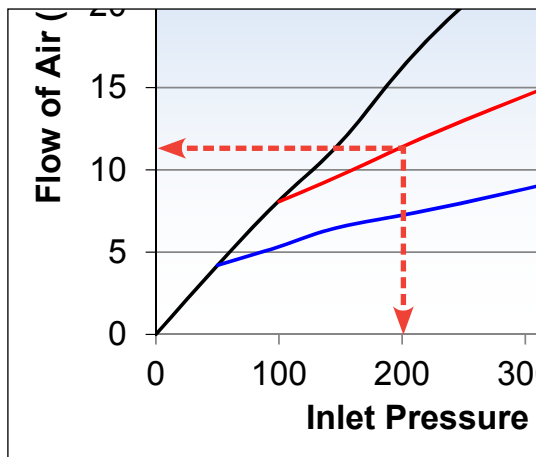
Part No	Gas Service	Coupling Inlet Connection	Pin Outlet Connection	Maximum Working Pressure *
QFDF5M5	Fuel Gas	5/8-18 UNF-LH Female	5/8-18 UNF-LH Male	A 150 H 2000 CMPY 2000
QODF5M5	Oxygen	5/8-18 UNF-RH Female	5/8-18 UNF-RH Male	O 2000
QIDF5M5	Inert Gas	5/8-18 UNF-RH Female	5/8-18 UNF-RH Male	DN 2000
QFDF3M3	Fuel Gas	G 3/8" LH Female	G 3/8" LH Male	A 150 H 2000 CMPY 2000

* See flow chart page for gas type abbreviations.

REGULATOR END

USING THE FLOW CHARTS

The flow charts below show the flow of air through the DKD model quick action coupling unit, at various inlet pressures and with increasing line restrictions. To determine the gas flow, multiply the flow derived from the charts below by the conversion factor from the table to the right appropriate to the gas medium being used.



Example:
 QG = Flow (Gas Type)
 QD = Flow of Air
 F = Conversion Factor

$$QG = QD \times F$$

$$= 11 \times 2.5$$

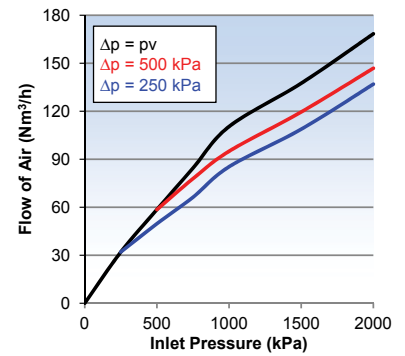
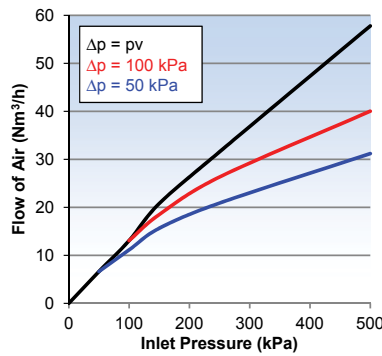
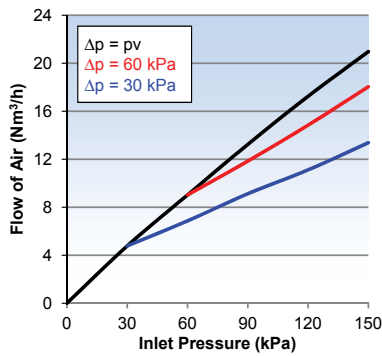
$$= 27.5 \text{ m}^3/\text{h (Hydrogen)}$$

Definitions:
 pv = Primary pressure
 ph = Secondary pressure
 $\Delta p = p_v - p_h$

Conversion Factors:

Gas Type (Abbreviation)	Conversion Factor (F)
Acetylene (A)	1.2
Hydrogen (H)	2.5
Town Gas (C)	0.9
Methane (M)	1.25
Propane (P)	0.9
Mixed Gas (Y)	-
Oxygen (O)	0.95
Air (D)	1.0

FLOW CHARTS – MODEL: DKD



REGULATOR END QUICK ACTION COUPLING UNITS

The following specification table is common to the group of regulator end quick action coupling units detailed in this section of the catalogue.

Specifications	
Materials of Construction	
Body	Brass
Pin	Stainless Steel
O-Ring Seals	NBR70 (Nitrile butadiene rubber)
Inclusions	
Gas Shut Off Valve	All Models (Activated by removing the coupling pin)
Standard	BAM ¹ Certified to ISO 7289 (EN 561)
Identification	
Colour Coding	
Fuel Gas	Red
Oxygen	Blue
Inert Gas	Black
Label Information	Logo of Manufacturer Country of Origin Direction of Flow International Standard Certification Model Number
Warranty	1 Year – Covering Manufacturer's Defect
Maximum Operating Temperature	100 °C
Country of Origin	Germany



¹ BAM is the Federal Institute for Materials Research and Testing in Berlin, Germany. They are the largest independent testing facility in the world. Through extensive testing, BAM have certified the IBEDA range of quick action couplings to ISO 7289.