

INLINE

Inline quick action coupling units are designed to be fitted to one length of hose, the coupling pin is attached to a second length of hose. This allows for connection and disconnection of one hose from another hose without the use of spanners. The coupling unit and pin meet ISO 7289 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 should be fitted in oxygen / fuel gas applications.

HOSE BARB INLET – HEADER CARD (MODEL: DKT)

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

Specifications	
Packaging Type	Header Card with Plastic Bag
Weight Nett Gross	0.100 kg 0.105 kg
Dimensions Product Only With Packaging	(H) 95 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*
QFDT5T5	Fuel Gas	5 mm Hose Tail	5 mm Hose Tail	A 150 H 2000 CMPY 2000
QODT5T5	Oxygen	5 mm Hose Tail	5 mm Hose Tail	O 2000
QFDT5T1	Fuel Gas	5 mm Hose Tail	10 mm Hose Tail	A 150 H 2000 CMPY 2000
QODT5T1	Oxygen	5 mm Hose Tail	10 mm Hose Tail	O 2000
QFDT1T5	Fuel Gas	10 mm Hose Tail	5 mm Hose Tail	A 150 H 2000 CMPY 2000
QODT1T5	Oxygen	10 mm Hose Tail	5 mm Hose Tail	O 2000
QFDT1T1	Fuel Gas	10 mm Hose Tail	10 mm Hose Tail	A 150 H 2000 CMPY 2000
QODT1T1	Oxygen	10 mm Hose Tail	10 mm Hose Tail	O 2000

* See flow chart page for gas type abbreviations.

MALE HOSE CONNECTION INLET – HEADER CARD (MODEL: DKG)

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

Specifications	
Packaging Type	Header Card with Plastic Bag
Weight	
Nett	0.100 kg
Gross	0.105 kg
Dimensions	
Product Only	(H) 69 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*
QFDM5M5	Fuel Gas	5/8-18 UNF-LH Male	5/8-18 UNF-LH Male	A 150 H 2000 CMPY 2000
QODM5M5	Oxygen	5/8-18 UNF-RH Male	5/8-18 UNF-RH Male	O 2000
QIDM5M5	Inert Gas	5/8-18 UNF-RH Male	5/8-18 UNF-RH Male	DN 2000
QFDM3M3	Fuel Gas	G 3/8" LH Male	G 3/8" LH Male	A 150 H 2000 CMPY 2000

* See flow chart page for gas type abbreviations.

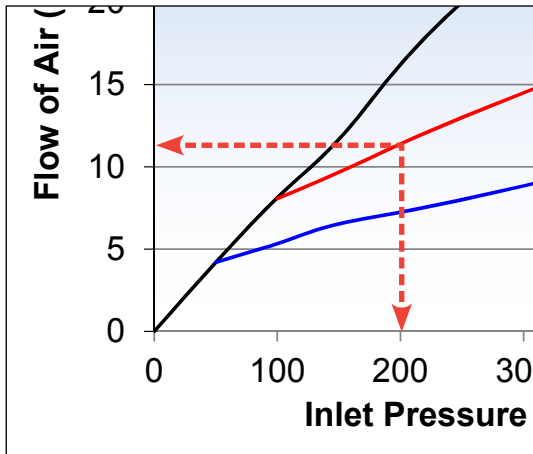
INLINE

USING THE FLOW CHARTS

The flow charts below show the flow of air through the different models of quick action coupling units, 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.

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

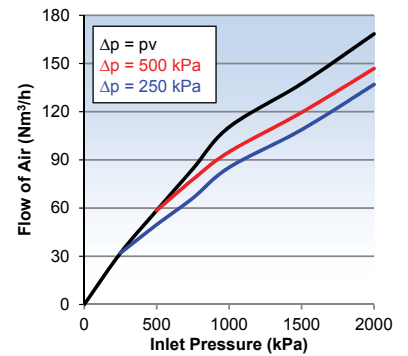
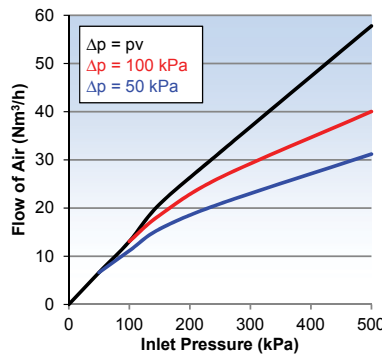
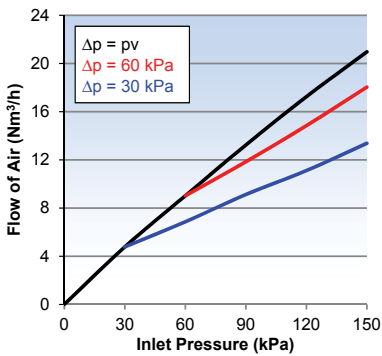


Example:
 QG = Flow (Gas Type)
 QD = Flow of Air
 F = Conversion Factor

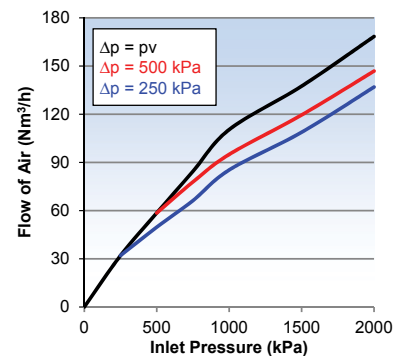
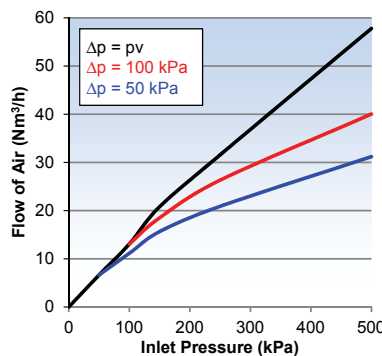
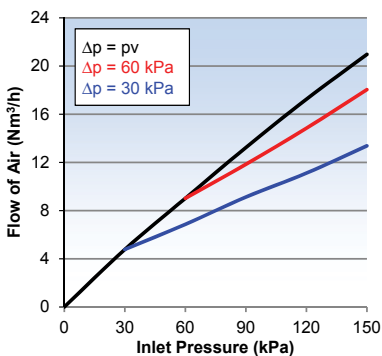
$QG = QD \times F$
 $= 11 \times 2.5$
 $= 27.5 \text{ m}^3/\text{h}$ (Hydrogen)

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

FLOW CHARTS – MODEL: DKT



FLOW CHARTS – MODEL: DKG



TORCH END QUICK ACTION COUPLING UNITS

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

Specifications	
Materials of Construction	
Body	Brass
Pin	316 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.