

## TORCH END

Torch end quick action coupling units are designed to be fitted to the hose, the coupling pin is attached to the torch handle or attached safety device. This allows for connection and disconnection of the torch handle from the 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 torch end quick action coupling units are supplied complete with both the coupling unit and a D1 style coupling pin as detailed in the table below.

Specifications	
Packaging Type	Header Card with Plastic Bag
Weight	
Nett	0.125 kg
Gross	0.130 kg
Dimensions	
Product Only	(H) 91 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*
QFDT5F5	Fuel Gas	5 mm Hose Tail	5/8-18 UNF-LH Female	A 150 H 2000 CMPY 2000
QODT5F5	Oxygen	5 mm Hose Tail	5/8-18 UNF-RH Female	O 2000
QFDT1F5	Fuel Gas	10 mm Hose Tail	5/8-18 UNF-LH Female	A 150 H 2000 CMPY 2000
QODT1F5	Oxygen	10 mm Hose Tail	5/8-18 UNF-RH Female	O 2000

\* See flow chart page for gas type abbreviations.

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

These torch end quick action coupling units are supplied complete with both the coupling unit and a D1 style coupling pin as detailed in the table below.

Specifications	
Packaging Type	Header Card with Plastic Bag
Weight Nett Gross	0.115 kg 0.120 kg
Dimensions Product Only With Packaging	(H) 73 mm (Ø) 22 mm (H) 150 mm (W) 130 mm (D) 24 mm



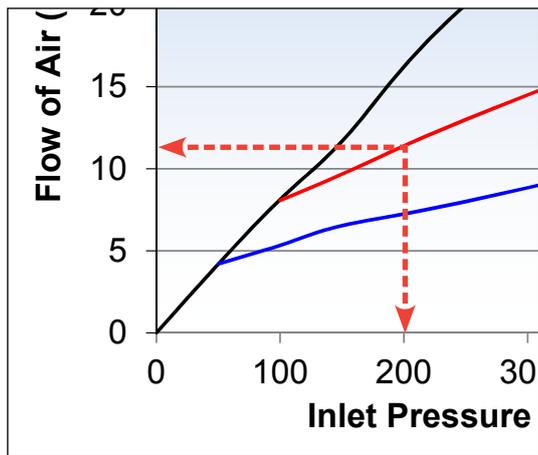
Part No	Gas Service	Coupling Inlet Connection	Pin Outlet Connection	Maximum Working Pressure*
QFDM5F5	Fuel Gas	5/8-18 UNF-LH Male	5/8-18 UNF-LH Female	A 150 H 2000 CMPY 2000
QODM5F5	Oxygen	5/8-18 UNF-RH Male	5/8-18 UNF-RH Female	O 2000
QIDM5F5	Inert Gas	5/8-18 UNF-RH Male	5/8-18 UNF-RH Female	DN 2000
QFDM3F3	Fuel Gas	G 3/8" LH Male	G 3/8" LH Female	A 150 H 2000 CMPY 2000

\* See flow chart page for gas type abbreviations.

## TORCH END

### 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.



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

$$QG = QD \times F$$

$$= 11 \times 2.5$$

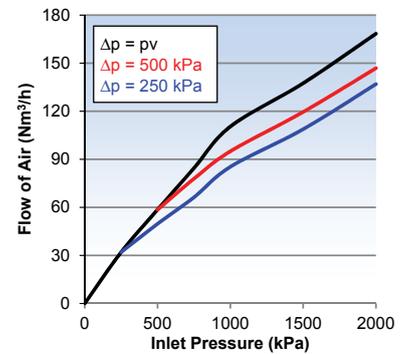
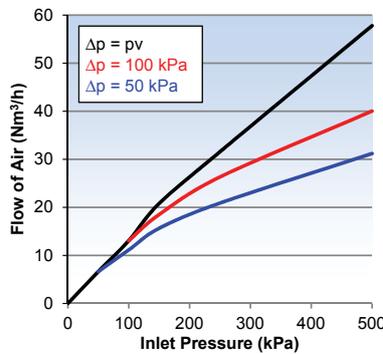
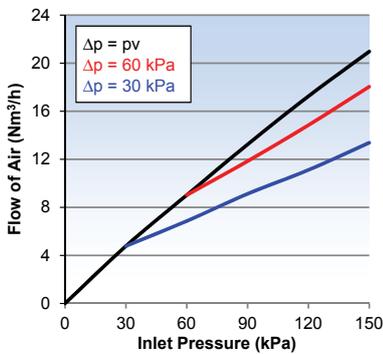
$$= 27.5 \text{ m}^3/\text{h} \text{ (Hydrogen)}$$

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

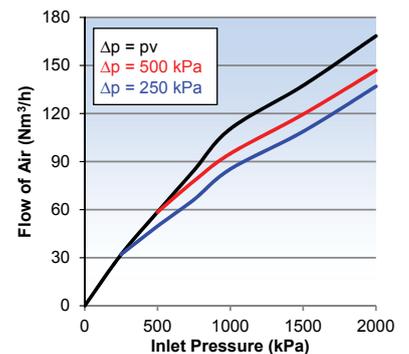
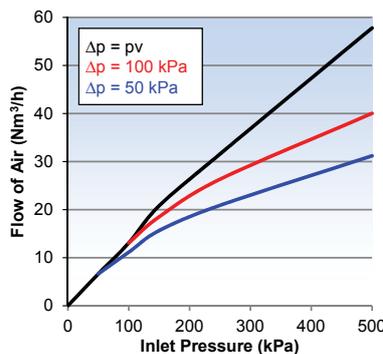
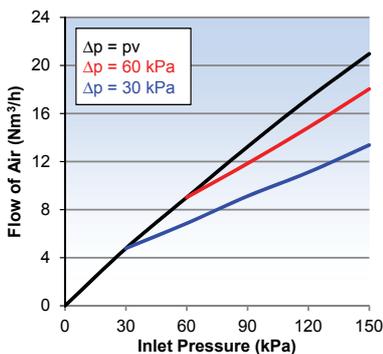
### Conversion Factors:

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: 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 Pin O-Ring Seals	Brass 316 Stainless Steel NBR70 (Nitrile butadiene rubber)
Inclusions Gas Shut Off Valve	All Models (Activated by removing the coupling pin)
Standard	BAM <sup>1</sup> Certified to ISO 7289 (EN 561)
Identification Colour Coding Fuel Gas Oxygen Inert Gas Label Information	Red Blue Black  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



<sup>1</sup> 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.