

## Coupling EN 561, ISO 7289

Model: **DKD**



**For protection of Cylinder-Regulators and Tapping Points.**



**The standard Coupling in welding technology. The Model DKD enables quick connecting and disconnecting of hose when often changing without tools.**

**Recommended Coupling Pins : D2, D4**

**Safety features:**

- Double O-ring sealing
- Coding of coupling pins
- Gas cut-off

### **Threads:**

In accordance with EN 560, ISO 3253 or country specific connections

Fuel Gas: G3/8"LH, M16X1,5LH, UNF9/16"-18LH, UNF5/8"-18LH

Inert Gas/ Compressed Air: G1/4"RH, G3/8"RH, M16X1,5RH, UNF9/16"-18RH, UNF5/8"-18RH

Oxygen: G1/4"RH, G3/8"RH, M16X1,5RH, UNF9/16"-18RH, UNF5/8"-18RH

For additional connections please contact IBEDA.

### **Gas-Types:**

Acetylene (A), Town Gas (C), Ethylene (E), Hydrogen (H), Natural Gas (Methane) (M), Propane (P), MPS Methylacetylen-Propadien-Mixture (Y), Oxygen (O), Compressed Air (D), Inert Gas (N)

### **Working pressure:**

A 1.5 bar ; CEHMPY 20.0 bar ; O 20.0 bar ; DN 20.0 bar

### **Measure and weight:**

diameter: 21,00 mm

length: 52,00 mm

weight: 86,40 g

### **Maintenance:**

The safety devices are to be tested by a qualified and authorised person at regular intervals according to country specific regulations. They are to be tested for gas tightness and gas return at least once a year.

### **Design:**

Other materials and surface finishing on request.



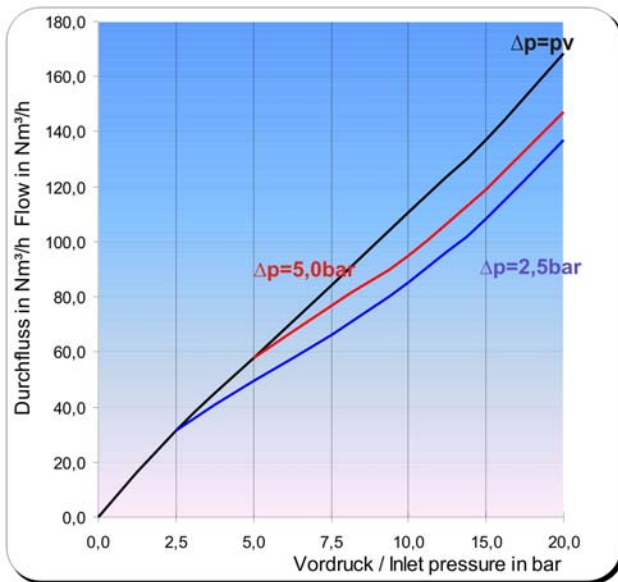
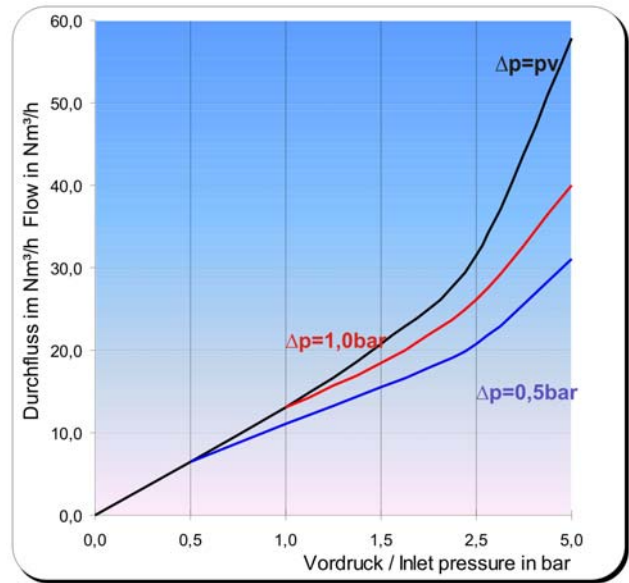
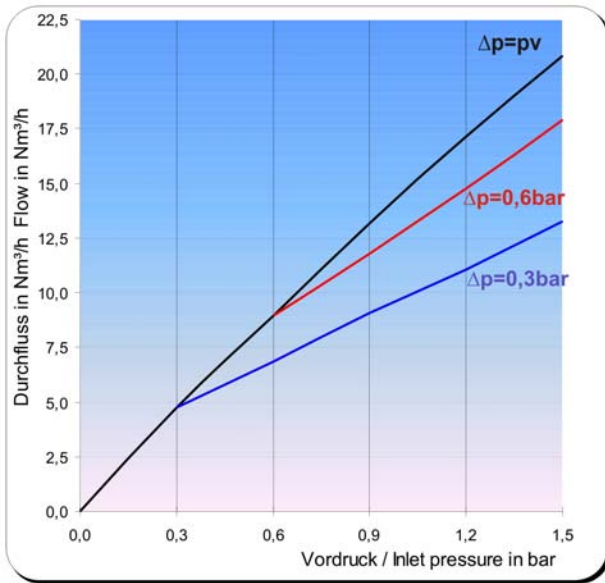
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*Worldwide!*

## Coupling EN 561, ISO 7289

Model: **DKD**

### Flow-Rate Dates:



### Conversion Factors

Gas type	Code	Pressure units:
Acetylen	A	1MPa = 10bar
Oxygen	O	1bar = 14,28psi
Hydrogen	H	1MPa = 1,428psi
Air	D	1bar = 100kPa
Natural Gas, Methane	M	1m³ = 1,31cu.yd
Propane	P	
Ethene	E	
MPS	Y	

### Flow rate

Air	Air	1,00
Air	Acetylen	1,20
Air	Butane	0,86
Air	Natural Gas	1,25
Air	Methane	1,40
Air	Propane	0,90
Air	Oxygen	0,95
Air	Hydrogen	2,50
Air	Ethene	1,02
Air	MPS	0,81



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## Coupling according to EN 561, ISO 7289

Model: **DKT**



**For In-Hose or Torch Side connection.**



**Designed to prevent an accidental disconnection so that an interruption of work is avoided.**

**Recommended Coupling Pins: D1, D2**

**Safety features:**

- Double O-ring sealing
- Coding of coupling pins
- Gas cut-off

**Threads:**

In accordance with EN 560, ISO 3253 or country specific connections

Fuel Gas: 4 , 5 , 6.3 , 8 , 9mm pin

Oxygen: 4 , 5 , 6.3 , 8 , 9mm pin

Inert Gas/Compressed Air: 4 , 5 , 6.3 , 8 , 9mm pin

For additional connections please contact IBEDA.

**Gas-Types:**

Acetylene (A), Town Gas (C), Ethylene (E), Hydrogen (H), Natural Gas (Methane) (M), Propane (P), Oxygen (O), Compressed Air (D), Inert Gas (N)

**Working pressure:**

A 1.5 bar ; CEHMP 20.0 bar ; O 20.0 bar ; DN 20.0 bar

**Measure and weight:**

diameter: 20,04 mm

length: 68,32 mm

weight: 80,00 g

**Maintenance:**

Couplings are wearing parts and have to be tested for Leakage and damage by a qualified and authorised person at least once a year. These tests have to be performed when the couplings are connected as well as disconnected.

**Design:**

Other materials and surface finishing on request.



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## Coupling according to EN 561, ISO 7289

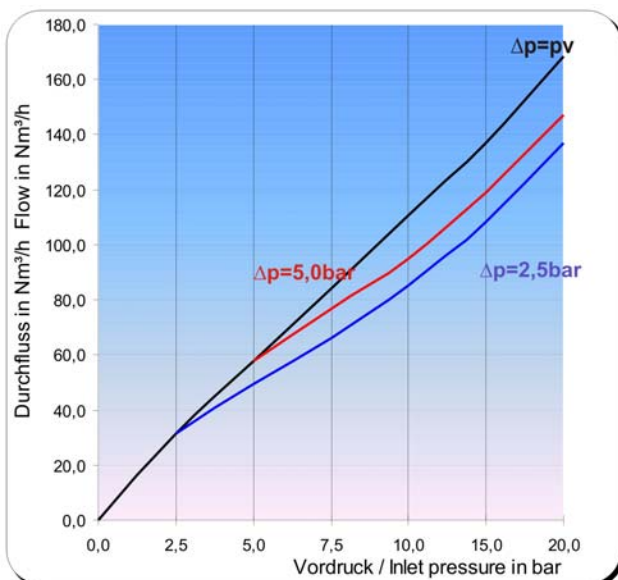
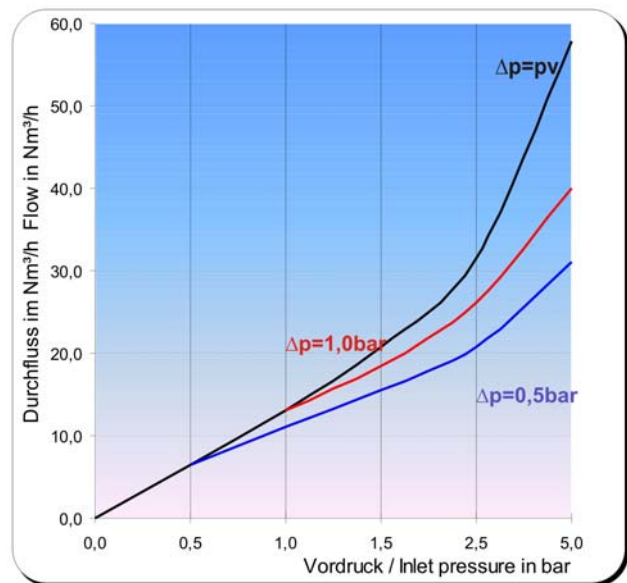
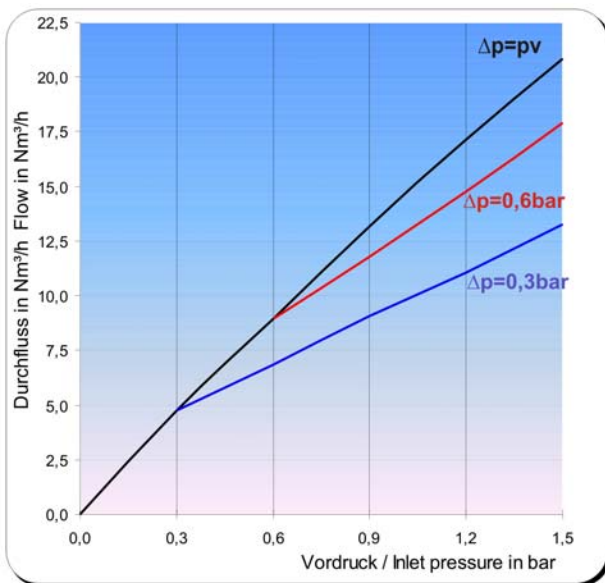
Model: **DKT**

### Flow rates:

$p_v$  = Primary pressure

$p_h$  = Secondary pressure

$\Delta p$  = Primary pressure minus Secondary pressure



### Conversion Factors

Gas type	Code	Pressure units:
Acetylen	A	1MPa = 10bar
Oxygen	O	1bar = 14,503psi
Hydrogen	H	1MPa = 145,03psi
Air	D	1bar = 100kPa
Natural Gas, Methane	M	1m³ = 35,32 ft³/h
Propane	P	
Ethene	E	

### Flow rate

Air	Air	1,00
Air	Acetylen	1,20
Air	Butane	0,86
Air	Natural Gas	1,25
Air	Methane	1,40
Air	Propane	0,90
Air	Oxygen	0,95
Air	Hydrogen	2,50
Air	Ethene	1,02



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## Coupling Pin for Coupling according to EN 561, ISO 7289

Model: **D1**



For Torch Side connection.



The Coupling Pin Model D1 allows in association with the standard Coupling an easy and cost-effective switch of different assignments without tools.

### Safety features:

- Colored marking of coupling pins
- Coding of coupling pins

### Threads:

In accordance with EN 560, ISO 3253 or country specific connections

Fuel Gas: G3/8"LH, M16X1,5LH, UNF9/16"-18LH, UNF5/8"-18LH

Inert Gas/ Compressed Air: G1/4"RH, G3/8"RH, M16X1,5RH, UNF9/16"-18RH, UNF5/8"-18RH

Oxygen: G1/4"RH, G3/8"RH, M16X1,5RH, UNF9/16"-18RH, UNF5/8"-18RH

For additional connections please contact IBEDA.

### Gas-Types:

Acetylene (A), Town Gas (C), Ethylene (E), Hydrogen (H), Natural Gas (Methane) (M), Propane (P), MPS Methyl-acetylen-Propadien-Mixture (Y), Oxygen (O), Compressed Air (D), Inert Gas (N)

### Working pressure:

A 1.5 bar ; CEHMPY 20.0 bar ; O 20.0 bar ; DN 20.0 bar

### Measure and weight:

diameter: 21,00 mm

length: 47,00 mm

weight: 41,80 g

### Maintenance:

Couplings are wearing parts and have to be tested for Leakage and damage by a qualified and authorised person at least once a year. These tests have to be performed when the couplings are connected as well as disconnected.

### Design:

Other materials and surface finishing on request.



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## Couplign Pin for Coupling according to EN 561, ISO 7289

Model: **D2**



For Torch Side connection.



The Coupling Pin Model D2 allows in combination with the standard Coupling an easy and cost-effective switch of different assignments without tools.

### Safety features:

- Colored marking of coupling pins
- Coding of coupling pins

### Threads:

In accordance with EN 560, ISO 3253 or country specific connections

Fuel Gas: 4 , 5 , 6.3 , 8 , 9mm pin

Oxygen: 4 , 5 , 6.3 , 8 , 9mm pin

Inert Gas/Compressed Air: 4 , 5 , 6.3 , 8 , 9mm pin

For additional connections please contact IBEDA.

### Gas-Types:

Acetylene (A), Town Gas (C), Ethylene (E), Hydrogen (H), Natural Gas (Methane) (M), Propane (P), MPS Methyl-acetylen-Propadien-Mixture (Y), Oxygen (O), Compressed Air (D), Inert Gas (N)

### Working pressure:

A 1.5 bar ; CEHMPY 20.0 bar ; O 20.0 bar ; DN 20.0 bar

### Measure and weight:

diameter: 10,50 mm

length: 51,96 mm

weight: 15,00 g

### Maintenance:

Couplings are wearing parts and have to be tested for Leakage and damage by a qualified and authorised person at least once a year. These tests have to be performed when the couplings are connected as well as disconnected.

### Design:

Other materials and surface finishing on request.

