

Fittings,  
Air Hose

Quick  
Fittings

Mini Quick  
Fittings

Rotary  
Joint

Stop  
Fittings

Check  
Valves

Speed  
Controllers

Hand  
Valves

Ball  
Valves

Air Control  
Valves

Push-IN  
Fittings

316L  
Fittings

KIS-A  
(ISO A)

KIS-B  
(ISO B)

KIS-O

KIS-PP

KZD

KZF

ST

TSP

310  
(ISO-B6)

430  
(ISO-B8)

550  
(ISO-B12)

20 (Super  
Mini Type)

21  
(Mini Type)

320  
(EURO 7.6)

410  
(EURO 10.5)

210  
(ARO210)

19  
(ASIA)

200  
(ASIA)

Pipe  
Fittings

Brass Ball  
Valves

US98A,  
UE95A

UCS

PA12,  
PA6

UN54D

Air Gun

Tracheal  
Scissors

Silencers



### Product feature

1. Non-valved couplers have minimum flow resistance and maximum flow rate.
2. Couplers and nipple are precision machined from qualified metal bar.
3. Steel, Brass, Stainless steel are available upon request.

### Interchange

Nitto TSP series

### Ordering code

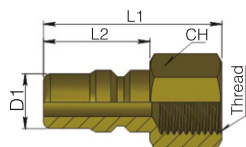
| TB |                 | - | 02 | S | F        |
|----|-----------------|---|----|---|----------|
| T  | Steel           |   |    | P | Nipple   |
| TB | Brass           |   |    | S | Coupling |
| TS | Stainless steel |   |    |   |          |

### Specifications

| Pipe size (Inch)        | 1/8           | 1/4 | 3/8 | 1/2 | 3/4 | 1   |
|-------------------------|---------------|-----|-----|-----|-----|-----|
| Rated pressure (MPa)    | 15            | 15  | 15  | 15  | 15  | 15  |
| Rated flow (L/Min)      | 15            | 25  | 40  | 120 | 350 | 550 |
| Temperature range (NBR) | -20°C ~ +80°C |     |     |     |     |     |

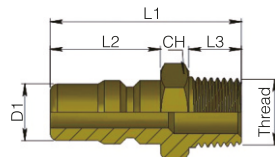
### Dimensions

#### PF Type Female



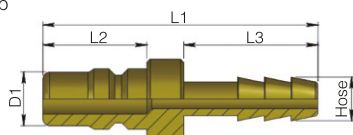
| PART NO. | Thread | D1   | L1 | L2   | CH |
|----------|--------|------|----|------|----|
| TB-1PF   | RC1/8  | 8    | 26 | 15.5 | 14 |
| TB-2PF   | RC1/4  | 10.9 | 34 | 18   | 17 |
| TB-3PF   | RC3/8  | 14.1 | 38 | 21   | 21 |
| TB-4PF   | RC1/2  | 18.9 | 45 | 24   | 29 |
| TB-6PF   | RC3/4  | 23.4 | 51 | 28   | 35 |
| TB-8PF   | RC1    | 34.1 | 60 | 36   | 41 |

#### PM Type Male



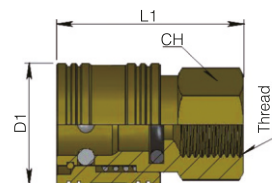
| PART NO. | Thread | D1   | L1 | L2   | L3 | CH |
|----------|--------|------|----|------|----|----|
| TB-1PM   | RC1/8  | 8    | 32 | 15.5 | 9  | 12 |
| TB-2PM   | RC1/4  | 10.9 | 38 | 18   | 13 | 17 |
| TB-3PM   | RC3/8  | 14.1 | 43 | 21   | 13 | 17 |
| TB-4PM   | RC1/2  | 18.9 | 52 | 24   | 17 | 22 |
| TB-6PM   | RC3/4  | 23.4 | 59 | 28   | 19 | 32 |
| TB-8PM   | RC1    | 34.1 | 73 | 36   | 22 | 41 |

#### PH Type Hose barb



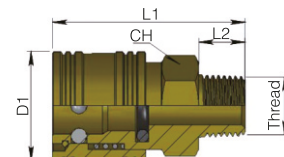
| PART NO. | Hose | D1   | L1  | L2   | L3 |
|----------|------|------|-----|------|----|
| TB-1PH   | 6.5  | 8    | 41  | 15.5 | 20 |
| TB-2PH   | 8    | 10.9 | 53  | 18   | 29 |
| TB-3PH   | 11   | 14.1 | 60  | 21   | 32 |
| TB-4PH   | 15   | 18.9 | 70  | 24   | 39 |
| TB-6PH   | 21   | 23.4 | 84  | 28   | 48 |
| TB-8PH   | 27   | 34.1 | 105 | 36   | 57 |

#### SF Type Female



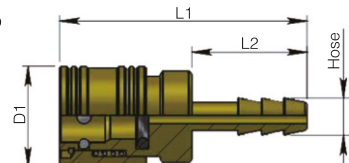
| PART NO. | Thread | D1   | L1 | CH |
|----------|--------|------|----|----|
| TB-1SF   | RC1/8  | 17.5 | 27 | 14 |
| TB-2SF   | RC1/4  | 24   | 32 | 19 |
| TB-3SF   | RC3/8  | 28   | 35 | 23 |
| TB-4SF   | RC1/2  | 35   | 42 | 29 |
| TB-6SF   | RC3/4  | 45   | 48 | 38 |
| TB-8SF   | RC1    | 58   | 59 | 50 |

#### SM Type Male



| PART NO. | Thread | D1   | L1 | L2 | CH |
|----------|--------|------|----|----|----|
| TB-1SM   | RC1/8  | 17.5 | 30 | 9  | 14 |
| TB-2SM   | RC1/4  | 24   | 42 | 13 | 19 |
| TB-3SM   | RC3/8  | 28   | 46 | 13 | 23 |
| TB-4SM   | RC1/2  | 35   | 56 | 17 | 29 |
| TB-6SM   | RC3/4  | 45   | 65 | 19 | 38 |
| TB-8SM   | RC1    | 58   | 75 | 22 | 50 |

#### SH Type Hose barb



| PART NO. | Hose | D1   | L1  | L2 |
|----------|------|------|-----|----|
| TB-1SH   | 6.5  | 17.5 | 40  | 20 |
| TB-2SH   | 8    | 24   | 55  | 29 |
| TB-3SH   | 11   | 28   | 62  | 32 |
| TB-4SH   | 15   | 35   | 74  | 39 |
| TB-6SH   | 21   | 45   | 90  | 48 |
| TB-8SH   | 27   | 58   | 102 | 57 |