INDSOL

01-2017 Fluid Connectors - 200 bar

Screw-in type, nominal diameter 6/10





Advantages:

- 🗸 Very low leackage and air intake
- ✓ Each part 85% rought vacuum endurance
- Pressurized and depressurized connectable
- Suitable for fluids and gases
- Mounting into individual contour
- Low pollution possibility
- Mounting compatible to nominal diameter 3 and 8
- ✓ Stainless steel parts

Description

C004

Technical Data:

Nominal Diameter [ND):		6	10
max. working pressure	[bar]	200	200
max. flow rate oil hydraulics	[l/min]	15	35
max. flow rate air/vacuum	[l/min]	800	1800
max. flow rate water	[l/min]	18	52
Coupling stroke	[mm]	4,5	7
Couping force min. at 0 bar	[N]	70	92
Axial positioning tolerance		+ 0,3	+ 0,3
Radial positioning tolerance		± 0,2	± 0,3
Permitted angle tolerance	[mm]	± 0,6°	± 0,6°
Coupling force under pressure	* [mm]	F [N]=16 x p [bar]	F [N]=38 x p [bar]

*= see following page as well.



Explanation:

These coupling elements are only for and are used mechanically connecting for the transfer of liquids and gases.

The elements have to be integrated directly into a counter contour. Because of the use of an axial seal between coupling mechanism and coupling nipple, radial and axial positioning tolerances can be compensated in a limited scope.

All mechanical parts are made of stainless steel (partly high density). The coupling elements are **pressurized and depressurized** connectable.

The screw-in elements are mounting compatible to standard elements with nominal diameter 3 and 8.

Recommendations for use:

The mechanism and the nipple must be coaxial and opposite to each other before the coupling process.

The inclusion bodies of both coupling elements must be guided approximately 2 mm before the contact of the flat face sealing, without passing the radial position tolerance.

When coupling nipple and coupling mechanism are locked and under pressure, there's a coupling force acting between them.

The coupling force must be absorbed by a form-locking or nonpositive design. (see technical data -. coupling force).

The connecting- surfaces must be free of dirt before connecting.

Parameters



Hydraulic oil: 200 bar Air: 6 bar Water: 35 bar

ND 6

Pressure drop - hydraulic oil



Pressure drop - air



Pressure drop - water



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Coupling mechanics

Coupling nipples

C004



Details

Nom inal diamete	ər	6	5	1	0	Mounting tool
Model	Unit	Mechanic	Nipple	Mechanic	Nipple	50
а	mm	M20x 1,5	M20x 1,5	M36x 1,5	M30x 1,5	25
b	mm	18	16	30	25	
С	mm	21,5	23	31	26	
d	mm	10	8,5	13	8,5	
е	mm	28	19	40	22,5	
f	mm	31	-	46,5	-	
g	mm	13	13	19,5	14	
h	mm	29,2	25,9	44	30	
i	mm	11,2	-	18	-	
S	mm	-	4,5	-	7,5	
t	mm	16,6	16,6	25,4	25,4	
D1	mm	22	22	30	30	
Torque	Nm	14	14	20	20	
Part number		ICME06-003	ICN106-003	ICME10-003	ICNI10-003	0.51
Mounting tool		ITC06-002	ITC06-002	ITC10-002	ITC10-002	Additional Information

Coupling force



Compatibility:

With regard to the mounting contour, the inosol elements are interchangeable with some competititive products, but these elements offer a much larger free cross-section (nominal width).

Multi Coupling Systems:

Since multi coupling systems always manufactured according to individual customer specifications, there is no separate data sheet available.

We will gladly make an offer according to your specific requirements.

Contact

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