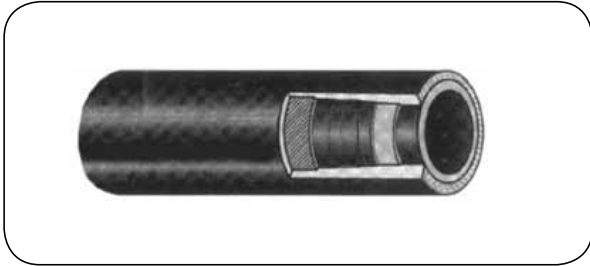


# INDUSTRIAL HOSES - air-conditioning



## 3090

**Internal layer:** Synthetic rubber (CR) with a nylon (PA) interlayer  
**Reinforcement:** Single textile braid  
**External layer:** Pin-pricked synthetic rubber (CIIR)  
**Working temp.:** From -40°C up to +135°C

The top grade hose designed for automotive and commercial refrigeration systems, air-conditioning systems operating with the use of R134a (also R12, Suva MP52, R22, HFO1234yf) and such lubricants as mineral oils, esters, PAG. External layer resistant to abrasion and weather conditions.

Assembly - use fittings for air-conditioning BU-54... (BURGACLIP system, IT-73) or BU-53... (IT-43, IT-44).

code	I.D. [inch]	I.D. [mm]	O.D. [mm]	working pressure [bar]	bursting pressure [bar]	bending radius [mm]
BU-3090-08	5/16	7.9÷8.6	14.2÷15.2	35	172	51
BU-3090-10	13/32	10.2÷11.2	16.8÷17.8	35	172	64
BU-3090-13	1/2	12.5÷13.5	18.9÷19.9	35	121	76
BU-3090-16	5/8	15.6÷16.6	23.1÷24.1	35	121	102
BU-3090-19	3/4	18.9÷19.9	28.1÷29.1	35	121	250
BU-3090-22	7/8	22	31	35	121	-

## Air-conditioning fittings assembly

Thermoplastic hoses designed for air-conditioning applications (e.g. FR5) are usually used with standard hydraulic fittings (Z type) and matching crimp ferrules.

Rubber hoses designed for air-conditioning require specially designed fittings in aluminium or steel: reusable, crimp or for assembly with the use of special clips (fast assembly system).

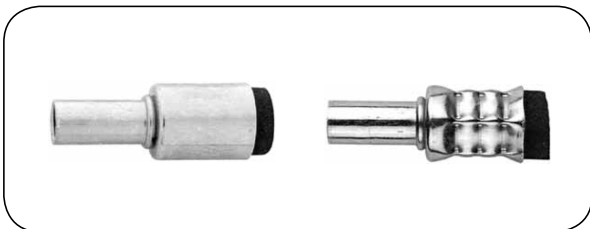


### Reusable fittings

Assembly of a fitting is performed by screwing the fitting together with a ferrule that was fitted on the hose. An advantage of this solution is a lack of need to use tools - useful in the field conditions.

### Fast assembly system

Special design of a fitting tail and a clip enables fast and easy assembly using only assembly pliers.



### Crimp fittings

A crimp fitting for air-conditioning has an integrated ferrule. The crimping process is performed by crimping pliers, crimping machines designed for air-conditioning or by standard FINN-POWER crimping machines (with special die sets).



### Hose assembly repair

If a hose assembly failed but its fittings are not damaged, it can be easily repaired by brazing the fittings to nipples and assembling then once again on the new hose.

## INDUSTRIAL HOSES - air-conditioning

### BURGACLIP fast assembly system



The system enables fast and easy assembly of air-conditioning fittings with the use of special clamps that are tightened with assembly pliers. Special design of a tail combined with a top grade hose ensures excellent quality of the hose assembly - very low Freon permeability.

We provide a range of fittings for fast assembly system (designed for 3090 hose in particular).



D-294050

### Assembly pliers

Special clip pliers designed to assemble clips of the air-conditioning fittings - BURGACLIP.



BU-CASE-1

### Tool case

The case includes a full set of tools necessary to assemble an air-conditioning hose and fittings of BURGACLIP system.

The case contains:

- special clip pliers designed to assemble clips of the air-conditioning fittings - BURGACLIP,
- hose cutter for hose of BU-3090 type in DN 8, 10, 12, 16 dimension,
- dual range hose cutter for hoses with an outside diameter up to 42 mm.



BU-CASE-2

### Service case

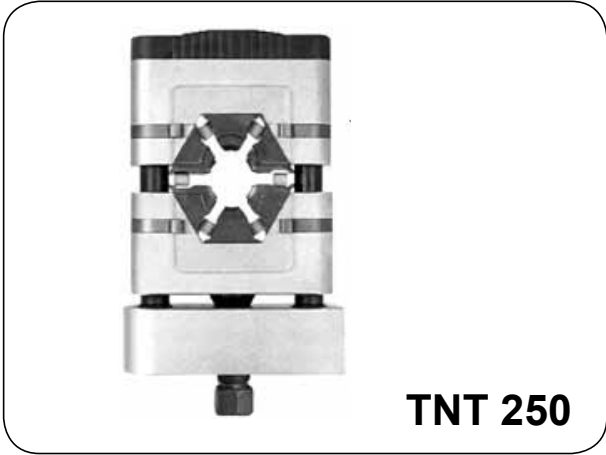
The case contains a set of various (most often used) BURGACLIP fittings for BU-3090 hose type in DN 8, 10, 12 and 16.

The case contains:

- 80 BURGACLIP clips,
- 40 BURGACLIP clip holders,
- 39 BURGACLIP fittings (straight, elbow, UNF thread, for compressors, type: SAE, ORFS),
- 80 HNBR O-rings.

# INDUSTRIAL HOSES - air-conditioning

## Hand crimper for air-conditioning hoses



**TNT 250**



**TNT 8**

Crimping machines designed to assemble fittings on standard rubber hoses for air-conditioning systems in diameters: 5/16" (8 mm), 13/32" (10.3 mm), 1/2" (12.7 mm), 5/8" (16 mm). Using appropriate die sets, one can assemble fittings on standard hoses and hoses with reduced outside diameter. Heads of the crimping machines allow the hose to be pulled through them. This assembly solution makes crimping of the angular fittings particularly easy. TNT 250 - six dies crimp. Depending on a version crimping is performed manually with the help of a special key, by hydraulic pump that is manually or pneumatically operated.

TNT 8 - eight dies crimp. Depending on a version crimping is performed by a simple electric drill, by hydraulic pump that is manually or pneumatically operated.

code	description
PF-TNT250-B	Hand crimper, 6 die sets for standard and reduced O.D. hoses, lubricant, plastic calliper, tool case.
PF-TNT250-P	Hand crimper with manually operated hydraulic pump, 6 die sets for standard and reduced O.D. hoses, lubricant, plastic calliper, tool case.
PF-APT100	Pneumatically operated hydraulic pump (700 bar) - TNT 250.
PF-MPT100	Manually operated hydraulic pump.
PF-UHT100	Hydraulic actuator 5.6 T with 1.8 m hose (700 bar).
PF-HCT100	Hydraulic actuator 5.6 T.
PF-HET100	1.8 m hose (700 bar).
PF-TNT8-MPT100MOSI	Hand crimper with hydraulic pump operated by an electrical drill, 6 die sets for standard and reduced O.D. hoses, tool case.
PF-TNT8-MPT10032SE	Hand crimper with manually operated hydraulic pump, 6 die sets for standard and reduced O.D. hoses, tool case.
PF-TNT8-UHTM	Hand crimper with hydraulic actuator with 1.8 m hose, 6 die sets for standard and reduced O.D. hoses, tool case.
PF-APT100-TNT8	Pneumatically operated hydraulic pump (300 bar) - TNT 8.



PF-TNT250-P



PF-APT100



PF-TNT8-MPT100MOSI



PF-TNT8-MPT10032SE