Ball taps - MINI

Series VSTT

The mini ball valves with handle are produced in Italy according to the reference ISO norms as warranty of high quality level.

Technical sheet

FLUIDS		Compressed air (for different fluid please contact our Technical Dept.)
APPLICATIONS		Pneumatic, oleodynamic and hydraulic circuits
SUGGESTED TUBES		Plastic: TPU, PA, PE, ecc. Metal: copper, aluminium, steel
TEMPERATURE AND PRESSURE	**Working temperature**	From -20°C to +80°C
	Max working pressure	20 bar
THREAD TYPE		POM Copolymer ISO 10433-1 BSPP pipe thread ISO 228 - BSPT tapered ISO 7 - DIN 2999
MATERIALS	**Ball, ogive, nut, ring nut and shaft**	Brass UNI EN 12164 CW614N ((nickel plated)
	Sleeve, collar and back ring	POM Copolymer ISO 10433-1
	Spring	Stainless steel AISI 301 austenitic
	Washer ball seat	PTFE
	O-Ring	NBR 70

Additional technical informations

Each VSTT taps series batch is tested according to severe cyclics "lot breaker" controls along all the production period, which include shape observation, leakage verification, functionality, at the working pressure of 8 bar. Then all samples taken from the lot are tested by a traction machine which simulate a breaking pressure of 50 bar. Here below are indicated the traction loads (in Newton) for each size:

Tube diameter	Breaking load
Ø4	63 N
Ø6	141 N
Ø8	251 N

Important note

The values refer to the resistance of the crimping gripper, "core part" as per the two fittings series, the brass RAP and the technopolymer Tecno-RAP, whereby homogeneous. The breaking experimental values measured, according to the diameter, were from 1.2 to 2.5 times higher.

Additional information regarding the working temperatures:

Working pressure and breaking pressure (bar) at different temperatures						
Example	T-20°C	T-20°C	T+23°C	T+23°C	T+60°C	T+60°C
Tube 6x4 colored	Working P bar	Breaking P bar	Working P bar	Breaking P bar	Working P bar	Breaking P bar
TPU	18,7	74,8	10,0	40,0	5,2	20,8
PA11	37,4	149,6	20,0	80,0	10,4	41,6
PA12	48,6	168,3	26,0	90,0	10,4	36,0
PE	18,7	74,8	10,0	40,0	5,0	20,0

Further to all the necessary assessments on the use of the VSTT taps in operating conditions different from how suggested in the initial technical sheet must be considered, with reference to temperatures, the nominal data regarding the type of the used tube and the limit imposed by the most critical component. Acetal resins with which some components are made, and the O-ring itself, suggest precise range of usage. Specifically to the NBR O-rings the supplier declares a fork between -25°C and +100°C.

ART. **VSTT**

Tube/tube ball valve

COD.	A	L	Ø TUBE	ØB		9
VSTT0404	23	46	4	9	1	39,50
VSTT0606	23	50	6	11	1	37,50
VSTT0808	23	52	8	13	1	39,30