





**Standard-Nozzles > Pipe Ø 40 mm for Tornado**

	Description	Part No.	Application
 	<p>Step nozzle short with fixed bores M24x1.5 male - 150 l/min - 1100 bar M24x1.5 male - 188 l/min - 1100 bar</p> <p>Step nozzle long with fixed bores and built-in pusher at 45° M24x1.5 male - 150 l/min - 1100 bar M24x1.5 male - 188 l/min - 1100 bar</p>	<p>7011080 7010745</p> <p>7011081 7010385</p>	<p>General pipe cleaning for partially and fully blocked pipes of 40 mm inner diameter and above</p>
	<p>Pusher with 2x ceramic inserts M4 M24x1.5 male - 30 l/min - 1100 bar</p> <p>Ceramic insert M4 - diameter 0.8 mm</p>	<p>7010746</p> <p>7002772</p>	<p>To be used in combination with all step nozzles short as driving nozzle "ALLCUT"</p>
 	<p>Step nozzle "ALLCUT" with fixed bores M24x1.5 male - 150 l/min - 1100 bar M24x1.5 male - 188 l/min - 1100 bar</p> <p><u>required accessories:</u> Plug G1/4" male or Front jetting insert G1/4" male or Guide roller brass Ø 32 mm and Axle G1/4" male</p>	<p>7011082 7010387</p> <p>5040036 7010903 7010748 7011192</p>	<p>General pipe cleaning for partially and fully blocked pipes of 40 mm inner diameter and above</p> <p>Used to guide step nozzle "ALLCUT" Used to guide roller brass</p>
  	<p>Nozzle carrier DT 2 - M24x1.5 female for 2 nozzle inserts Form A + B</p> <p>Nozzle carrier DT 4 - M24x1.5 female for 4 nozzle inserts Form A + B</p> <p><u>required accessories:</u> Nozzle holder for insert nozzle Insert nozzles O-Ring Screw turner for nozzle holder</p> <p><u>additional with:</u> Plug G1/4" male or Front jetting insert G1/4" male or Guide roller plastic Ø 60 mm and Axle G1/4" male</p>	<p>7010388</p> <p>7010389</p> <p>7010901 Z41-1 1060382 7010902</p> <p>5040036 7010903 7010747 7011083</p>	<p>General pipe cleaning for partially blocked pipes of 70 mm inner diameter and above</p> <p>Used to guide nozzle carrier DT Used to guide roller plastic</p>

<b>PIPE CLEANING MACHINE TORNADO</b> <b>NOZZLES</b>	Z 71-3e
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**Special Nozzles < Pipe Ø 40 mm for Tornado**

	Description	Part no.	Application
	Step nozzle short with fixed bores		General pipe cleaning for partially and fully blocked pipes
	G1/8" female - 20 l/min - 1100 bar	7011085	above inner diameter 16 mm
	G1/8" female - 30 l/min - 1100 bar	7011086	above inner diameter 16 mm
	G1/4" female - 30 l/min - 1100 bar	7011087	above inner diameter 20 mm
	G1/4" female - 50 l/min - 1100 bar	7011088	above inner diameter 20 mm
	G3/8" female - 100 l/min - 1100 bar	7011089	above inner diameter 30 mm
	Step nozzle long with fixed bores and built-in pusher at 45°		
	G3/8" female - 100 l/min - 1100 bar G3/8" female - 120 l/min - 1100 bar	7011091 7011092	above inner diameter 30 mm above inner diameter 30 mm
	Pusher with 2 x fixed bores		To be used in combination with all step nozzles short
	G1/8" female - 10 l/min - 1100 bar	7011093	above inner diameter 16 mm
	G1/4" female - 20 l/min - 1100 bar	7011094	above inner diameter 20 mm
	Pusher with 2x ceramic inserts M4		
G3/8" female - 20 l/min - 1100 bar	7011095	above inner diameter 30 mm	
Ceramic insert M4 – diameter 0,7 mm	7002771		

**Special Hoses < Pipe Ø 40 mm for TORNADO**

<u>Pipe cleaning hose</u> DN 5/2 - max. 1040 bar - G 1/4" cap nut / G 1/8" m. - 12 m DN 6/2 - max. 960 bar - G 1/4" cap nut / G 1/4" m. - 12 m DN 10 - max. 750 bar - M 24x1.5 DKO / G 3/8" m. - 10 m	7000558 7000570 7010986	for heat exchanger cleaning above inner diameter 16 mm above inner diameter 20 mm above inner diameter 30 mm
<u>Reducing double nipple</u> M24x1.5 DKO - G1/4" DKR M24x1.5 DKO - M24x1.5 DKO	1051633 1050671	Connection DN 13 with DN 5/6 Connection DN 10 / 13

**Pipe cleaning: max. 12 m length of pipe by using pipe cleaning hoses DN 5 + DN 6**