NTB Adjustable choke parts and components exhibit these features: Conventional tried and tested Carbide or Ceramic Needle and Seat

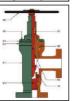
- design available with Orifice sizes of %" to 2"

 The stems are Stainless Steel with Carbide Cone tips
- Parts are interchangeable to construct a positive, adjustable or combination Choke
- Bonnet nuts have rugged forged lugs that can be hammered loose.



Positive Choke

Part N°	Description	
01	Plug	
02	Bonnet	
03	Body	
04	Choke Bean	



Adjustable Choke

Part N°	Description
01	Body
02	Bonnet
03	Seat
04	Body studs nuts
05	Body studs
06	Handwheel
07	Stem + Needle
08	Body/Bonnet Gasket
09	Stem Gasket
10	Seat Gasket



NTB HITECH CERAMICS

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NTB CHOKES

NTB Hittech Positive or Adjustable Choke parts are built to the highest standards using advanced techniques and material in pressure ratings upto 15,000 psi. this ensures optimal performance and reliability. NTB Chokes and Valve components are line with Cobat/Mickel bonded Tunosten Carbide hard metals of

fine/medium grain carbides sintered to 95-99% theoretical density.
NTB Choke and Valve components conform to NACE standards.

NTB Positive Chokes-NTB Positive Chokes accept preplaceable fixed ordine flow beans (Ceramic or Carbide Lined of severe applications) that are measured in 6.9° of an inch All adjustable Chokes can be converted into Positive Chokes by replacing the bornet assembly with an appropriate blanking plug and Choke bean assembly, Positive Choke beans range from 6.0° to 4.96° of 7.9° beans and from 50.64° to 6.46° for the 1° Positive Choke. NTB Positive Chokes are manufactured with SS 4.10 and are brazed with highly wear resistant Tungsten Carbide Cores with suitable ordices.



NTB Adjustable Chokes – NTB Adjustable Choke parts and components exhibit these features: Conventional tried and tested Carbide or Ceramic Needle and Seat design available with Orifice sizes of \$2' to 2"

Office sizes of % to 2
Parts are interchangeable to construct a positive, adjustable or combination choke.
Bonnet nuts have rugged forged lugs that can be hammered loose.

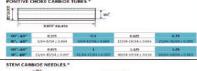


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NTB TUNGSTEN CARBIDE PRODUCTS FOR OIL AND GAS POSITIVE CHOKE CARBIDE TUBES *



-C--





CHOKE CARBIDE LINER SLEEVES*, PARTIAL/STEP/STRAIGHT(score)











NTB HITECH CERAMICS (A Division of NTB International Pvt. Ltd.) Corporate Office & Works:

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NTB TUNGSTEN CARBIDE PLUGS, CAGES AND DISCS

NTB Hitch Ceramics, India is an ISP-9001:2015 expertified organization, managed by a team of upulfied professionals with 25 plus years of experience in this business. We are conveniently located at Chakan Pune, a leading high of Automotive and Hitch-Engineering Industry, NTB orders Machine, Diamond Group parts and components designed to reliably control the flow

rate of fluids discharged from an Oil and Gas well.

NTB Choke and Valve components are lined with 6-10% Cobalt/Nickel bonded Tungsten Carbide hard-metals, with fine/medium grain carbides of 0.8-2 µm and sintered to 95-99% Theoretical Density with Hardness=88-91. HRA & TRS=1800-2200 N/mm². NTB also offers above wear components, times and Discs in Numina, Zirocnia and SiC Caramias.

Tungsten Carbide Valve Seats & Balls

These are used in high wear assemblies of Gas Lift Valves, Wire Line Retrievable (WLR) & Injection Pressure Operated (IPO) Gas Lift Valves. Seats are made to perfect sizes and surface finish and balls to high roundness & polish, to insure leak-proof assembly.





Tungsten Carbide Flow Cages & Plugs

Some newer designs of Choke Valves use Flow Cages & Plugs for accurate and precise flow control. These are manufactured in high wear-resistant carbide grades with 6-8% Cobalt. The location and dimensions of the holes ser maintained within close tolerances with precise machining. Highly polished mating faces provide leakproof shut-off at high temperatures and pressures

Tungsten Carbide Stabilizer Discs

This Special product used in the Oil & Gas Industry Is manufactured from a high Nickel (27%) Bonded Tungsten Carbide grade. They are twoically offered in four sizes and can also he customized.





Tungsten Carbide Flow Trims

Flow Trims are manufactured with high accuracy and close tolerances. The location, dimensions of the holes and pockets is tightly controlled. Special Carbide grades with fine size grains provide high toughness and hardness and result in maximum operating life in tough Oil & Gas spolications.

Tungsten Carbide Choke Sleeves (Tubes)

NTB Positive Chokes accept replaceable fixed orifice flow beans (Cernatic to accept the Control of the Control





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NTB CHOKES, STEMS & SEATS

NTB CHOKES ARE AVAILABLE FROM 4/64" TO 64/64". These are manufactured in Tungsten Carbide Core with Stainless Steel Housing.



NTB STEMS are offered in various sizes 3/4 ", 1", 2", 3 /1/36" These are available in stainless Steel. These Stems are tested for V Notch Impact Charpy Test at 20°F (-29°C) for US Markets and - 50°F (-46°C) for Canada Markets.



NTB SEATS are offered in sizes 3/4", 1", 2". These are offered in either fully Lined TC or Partially Lined TC. With Stainless Steel Housing. Are tested for V-Notch Impact Charpy Test at -20"F (-29"C) for LIS Markets and -50"F (-46"C) for Canada Markets.



ALL NTB PRODUCTS ARE MANUFACTURED AS PER NACE STANDARDS

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PROCESS SEQUENCE wo-

REDUCTION

TUNGSTEN METAL (W)

BLENDING

CARBURISING

TUNGSTEN CARBIDE (WC)

BALL MILLING SPRAY DRYING

MIXED POWDER

PRESSING

PRE-SINTERING

SHAPING SINTER HIPPING

SINTERED PRODUCT

FINISHED PRODUCT









THERMAL CONDUCTIVITY



TB HITECH CERAMICS vision of NTB International Pvt. Ltd.

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