

MPC Series Choke Valves

The NOV® Best Products line covers a complete range of severe service chokes from 2" to 10" nominal sizes with pressure ratings from 2,000 psi to 20,000 psi for API, and 150 lb to 2500 lb class for ANSI requirements. Customers may choose between an adjustable choke design with multi-orifice cage trim or a positive choke valve design. The acceptance of our MPC Series Choke Valves has given our customers a high level of confidence due to design proven-field performance and reliability under severe conditions.

FEATURES AND BENEFITS

- Seat wear monitor (patented design) detects washout in the wear sleeve before erosion damage can occur in the body
- Closed cage (patented design) that completely encloses the area of the cage that is exposed to the turbulence created by the pressure drop
- Designed with pressure balanced trim for low operating torque under all flow conditions
- Bolted bonnet design for added safety
- Large body reservoir eliminates body erosion
- Extended seat length provides added wear protection in the outlet bore to increase service life
- Cage design reduces noise levels to operate under 85 dba level
- Easy conversion from manual to actuated for remote/automation applications



MPC Series Choke Valves



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 **NATIONAL OILWELL VARCO**

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Angle Body Choke Size Selection Chart

Designation	Nominal Body Size	Maximum Orifice Diameters Available	Maximum Theoretical C _v Values	Working Pressure Options	Flange Sizes Options
SMPC-10	2.0"	.50" .75"	6 13	900 – 1,500 ANSI	2 – 3 ANSI
MPC-20	2.0"	.50" .75" 1.00"	6 13 25	5,000 – 10,000 API 15,000 – 20,000 API 900 – 2,500 ANSI	1-13/16 – 3-1/16 API 1-13/16 – 2-1/16 API 2 – 3 ANSI
MPC-25 MPC-25S	2.5"	.50" .75" 1.00" 1.50"	6 13 25 50	5,000 – 10,000 API 15,000 – 20,000 API 900 – 2,500 ANSI	2-9/16 – 4-1/16 API 2-9/16 – 3-1/16 API 2-1/2 – 4 ANSI
MPC-30S	3.0"	.50" .75" 1.00" 1.50" 2.00"	6 13 25 50 90	900 – 1,500 5,000 – 10,000 API 15,000 – 20,000 API 900 – 2,500 ANSI	2-9/16 – 4-1/16 API 2-9/16 – 3-1/16 API 2-1/2 – 4 ANSI
MPC-40S	4.0"	1.00" 1.50" 2.00" 2.50" 3.00"	25 50 90 150 190	3,000 – 10,000 API 900 – 2,500 ANSI	4-1/16 – 7-1/16 API 4 – 8 ANSI
MPC-60S	6.0"	2.00" 2.50" 3.00" 3.50" 4.50"	90 150 190 270 450	3,000 – 15,000 API 900 – 1,500 ANSI	7-1/16 – 9 API 6 – 8 ANSI

Notes:

- Custom engineered trim sizes for your unique applications are available for most models on special request.
- Best Products offers other connections such as Grayloc™ and Techlok™ hubs on our choke bodies on request.
- MPC-80S replaced with MPX-80.

MPC In-Line Adjustable Choke Size Selection Chart

Designation	Trim Size	C _v Capacity	Working Pressure Options	Flange Size Options
MPC-20	0.05" 0.75" 1.00"	6 13 25	3,000 – 10,000 API 900 – 2,500 ANSI	2-1/16" API 2" ANSI
MPC-30S	0.05" 0.75" 1.00" 1.50" 2.00"	6 13 25 50 90	3,000 – 5,000 API 900 – 2,500 ANSI	3-1/8" API 3" ANSI
MPC-40S	1.00" 1.50" 2.00" 2.50" 3.00"	25 50 90 150 190	3,000 – 5,000 API 900 – 2,500 ANSI	4-1/16" API 4" ANSI
MPC-60S	3.25" 4.50"	230 475	900 – 1,500 ANSI	6" ANSI Techlok Hubs: 6" A42 and 6"42R

Note: C_v is maximum theoretical value for given choke size.

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