

## Plug Valves

BRC Engineering manufactures premium quarter turn, top entry, plug valves with a full floating plug, providing excellent sealing capabilities from high to low pressure applications.

BRC Engineering plug valves have been FEA and CFD optimized to be light weight, without sacrificing strength and performance. Industry leading low opening torques have been achieved through precision machined, specialty surface treated internals, which undergo regular inspection as part of BRC Engineering's Quality Management System. BRC Engineering plug valves come standard with hard chromed plug and Black Armour™ treated valve body and seats for lasting performance, even in the most demanding applications, with high flow rates and abrasive slurry's.

Plug valves are manufactured to meet the requirements of API6A PSL1/PR1, and are available in standard and sour service. Sour service trim also meets the requirements of NACE MR0175.

All plug valves are fully assembled and tested in the Calgary facility, and are provided with documentation including, pressure test charts, assembly logs & Certificates of Compliance.



**2" Fig 1502 Plug Valves**

Part Number	Description	NSCWP* (psi)	Service
100-03-017	2" Fig 1502 Plug Valve 10k Sour	10,000	Sour
100-03-017-HA	2" Fig 1502 Plug Valve 10k Sour Hydraulic Actuated	10,000	Sour
100-03-187	2"x1" Fig 1502 Plug Valve 10k Sour	10,000	Sour
100-03-187-HA	2"x1" Fig 1502 Plug Valve 10k Sour Hydraulic Actuated	10,000	Sour
100-03-028	2" Fig 1502 Plug Valve 15k Std	15,000	Standard
100-03-028-HA	2" Fig 1502 Plug Valve 15k Std Hydraulic Actuated	15,000	Standard
100-03-049	2"x1" Fig 1502 Plug Valve 15k Std	15,000	Standard
100-03-049-HA	2"x1" Fig 1502 Plug Valve 15k Std Hydraulic Actuated	15,000	Standard
100-03-013-SIT	2" Plug Valve Seat Installation Tool	-	-
100-03-026	2" Plug Valve Top Nut Pin Wrench	-	-
100-03-064	2"x1" Wear Insert Pin Wrench	-	-
100-03-196	2" Plug Valve Hydraulic Actuator Mounting Kit BRC1000	-	-
100-03-199	2" Plug Valve Hydraulic Actuator Kit BRC1000	-	-
100-03-00R	2" Plug Valve Major Rebuild Kit	10,000/15,000	Sour/Standard
100-03-00S	2" Plug Valve Minor Seal Kit	10,000/15,000	Sour/Standard
100-03-00W	2"x1" Plug Valve Wear Insert Kit	10,000/15,000	Sour/Standard
100-03-051	2" Plug Valve Window Seat	10,000/15,000	Sour/Standard

\*Non-Shock Cold Working Pressure

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### 3" Fig 1502 Plug Valves

Part Number	Description	NSCWP* (psi)	Service
100-04-095	3" Fig 1502 Plug Valve 17" 10k Sour Manual	10,000	Sour
100-04-097	3" Fig 1502 Plug Valve 15.69" 10k Sour Manual	10,000	Sour
100-04-099	3" Fig 1502 Plug Valve 15.69" 10k Sour Gear Actuation	10,000	Sour
100-04-099-HA	3" Fig 1502 Plug Valve 15.69" 10k Sour Hydraulic Actuation	10,000	Sour
100-04-129	3" Fig 1502 Plug Valve 17" 10k Sour Gear Actuation	10,000	Sour
100-04-129-HA	3" Fig 1502 Plug Valve 17" 10k Sour Hydraulic Actuation	10,000	Sour
100-04-090	3" Fig 1502 Plug Valve 17" 15k Std Manual	15,000	Standard
100-04-096	3" Fig 1502 Plug Valve 15.69" 15k Std Manual	15,000	Standard
100-04-098	3" Fig 1502 Plug Valve 15.69" 15k Std Gear Actuation	15,000	Standard
100-04-098-HA	3" Fig 1502 Plug Valve 15.69" 15k Std Hydraulic Actuation	15,000	Standard
100-04-130	3" Fig 1502 Plug Valve 17" 15k Std Gear Actuation	15,000	Standard
100-04-130-HA	3" Fig 1502 Plug Valve 17" 15k Std Hydraulic Actuation	15,000	Standard
100-00-056	1-8 x 2.50 SHCS 3"1502 Cap Screw	10,000/15,000	Sour/Std
100-04-00R	3" Fig 1502 Plug Valve Major Rebuild Kit	10,000/15,000	Sour/Std
100-04-00S	3" Fig 1502 Plug Valve Minor Seal Kit	10,000/15,000	Sour/Std
100-04-015	3" Plug Valve Window Seat	10,000/15,000	Sour/Std
100-04-016	3" Fig 1502 Slip (Individual, 3 required)	10,000/15,000	Sour/Std



### 3" Fig 206 Plug Valves

Part Number	Description	NSCWP* (psi)	Service
100-06-005	3" Fig 206 Slip (Individual, 3 required)	2,000	Sour
100-06-00R	3" Fig 206 Plug Valve Major Kit	2,000	Sour/Standard
100-06-00S	3" Fig 206 Plug Valve Minor Kit	2,000	Sour/Standard
100-06-011	3" Fig 206 Plug Valve 2k Sour	2,000	Sour
100-06-011A	3" Fig 206 Plug Valve 2k Sour w/ AC140 Actuator	2,000	Sour
100-06-008	3" Fig 206 Plug Valve Stem Wrench	-	-
100-06-012	3" Fig 206 Plug Valve Top Nut Pin Wrench	-	-
100-06-024	3" Fig 206 Actuator Kit for Meridian AC 140	-	-

\*Non-Shock Cold Working Pressure

## Chokes

BRC Engineering manufactures high performance chokes. Available in both fixed and adjustable trim levels, the body is interchangeable and they can be transitioned between trim levels at any time.

The Black Armour™ treatment ensures that the choke body will perform even in the most aggressive sand and slurry applications. The adjustable chokes come standard with a carbide tipped stem greatly extending the service life. All choke bodies come standard with 9/16" (F562C) Autoclave port in the body for auxiliary connections. The fixed choke caps are also available with 9/16" (F562C) Autoclave auxiliary port.

BRC Engineering 2" Chokes are designed to work with N60 style seats and beans. The 3" chokes are designed for H2 style seats and beans.

All chokes are manufactured to the same specifications and follows the same Quality Management System as all other BRC products.



**2" Fig 1502 Chokes**

Part Number	Description	NSCWP* (psi)	Service
100-03-067	2" Fig 1502 Adjustable Choke 10k Sour	10,000	Sour
100-03-068	2" Fig 1502 Fixed Choke 10k Sour	10,000	Sour
100-03-125	2" Fig 1502 Choke Bonnet 10k Sour	10,000	Sour
100-03-140	2" Fig 1502 Choke Blast Joint 10k Sour	10,000	Sour
100-03-183	2" Fig 1502 Choke Tee 10k Sour	10,000	Sour
100-03-091-F562C	2" Fig 1502 Adjustable Choke 15k Std	15,000	Standard
100-03-092-F562C	2" Fig 1502 Fixed Choke 15k Std	15,000	Standard
100-03-126	2" Fig 1502 Choke Bonnet 15k Sour	15,000	Standard
100-03-141	2" Fig 1502 Choke Blast Joint 15k Std	15,000	Standard
100-03-184	2" Fig 1502 Choke Tee 15k Std	15,000	Standard
100-03-082	OCT Choke Seat/Bean Wrench	-	-
100-03-127	2" Fig 1502 Choke Bonnet Stem Packing Kit	10,000/15,000	Sour/Standard
100-03-185	2" Fig 1502 Choke Bonnet Rebuild Kit	10,000/15,000	Sour/Standard

\* 2" Fixed Chokes use regular Fig 1502 male caps. See fittings section for details.



### 3" Fig 1502 Chokes

Part Number	Description	NSCWP* (psi)	Service
100-04-111	3" Fig 1502 Adjustable Choke Bonnet 10k Sour	10,000	Sour
100-04-115	3" Fig 1502 Adjustable Choke 10k Sour w/F562C	10,000	Sour
100-04-119	3" Fig 1502 Fixed Choke 10k Sour w/F562C	10,000	Sour
100-04-170	3" Fig 1502 Choke Blanking Cap w/F562C 10K Sour	10,000	Sour
100-04-171	3" Fig 1502 Choke Blanking Cap 10K Sour	10,000	Sour
100-04-182	3" Fig 1502 Choke Body w/ F562C 10k Sour	10,000	Sour
100-04-110	3" Fig 1502 Adjustable Choke Bonnet 15k Std	15,000	Standard
100-04-114	3" Fig 1502 Adjustable Choke 15k Std w/F562C	15,000	Standard
100-04-118	3" Fig 1502 Fixed Choke 15k Std w/F562C	15,000	Standard
100-04-128	3" Fig 1502 Choke Blanking Cap w/F562C 15K Sour	15,000	Standard
100-04-168	3" Fig 1502 Choke Body w/F562C 15k Std	15,000	Standard
100-04-172	3" Fig 1502 Choke Blanking Cap 15k Std	15,000	Standard
100-00-052	Choke Stem - 2" H2 Style	10,000/15,000	Sour/Standard
100-04-061	H2 Style 2" to FC-140/N60 Bean Adapter	10,000/15,000	Sour/Standard
100-04-0BR	3" Fig 1502 Choke Bonnet Rebuild Kit	10,000/15,000	Sour/Standard
100-04-OSP	3" Fig 1502 Choke Stem Packing Kit	10,000/15,000	Sour/Standard

\* Choke beans & seats sold separately

## Fittings

BRC Engineering manufactures crosses, tees, elbows, caps, crossovers, short pups and data headers.

All fittings come standard with the Black Armour™ treatment for industry leading service life in all high pressure oil & gas applications, including fracturing, flow back, cementing & any other high pressure abrasive slurry application. All fittings are manufactured under the BRC Engineering quality management system, ensuring that the customer receives the highest quality product every time.



**2" Fig 1502 Crosses**

Part Number	Description	NSCWP* (psi)	Service
100-03-069	2" Fig 1502 Cross FMMM 10k Sour	10,000	Sour
100-03-070	2" Fig 1502 Cross FFFM 10k Sour	10,000	Sour
100-03-093	2" Fig 1502 Cross FMMM 15k Std	15,000	Standard
100-03-094	2" Fig 1502 Cross FFFM 15k Std	15,000	Standard



**3" Fig 1502 Crosses**

Part Number	Description	NSCWP* (psi)	Service
100-04-102	3" Fig 1502 Cross MMMF 10k Sour w/F562C	10,000	Sour
100-04-105	3" Fig 1502 Cross FFFM 10k Sour w/F562C	10,000	Sour
100-04-100	3" Fig 1502 Cross MMMF 15k Std w/F562C	15,000	Standard
100-04-107	3" Fig 1502 Cross FFFM 15k Std w/F562C	15,000	Standard

\*Non-Shock Cold Working Pressure

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### 2" Fig 1502 Tees

Part Number	Description	NSCWP* (psi)	Service
100-03-071	2" Fig 1502 Tee FMM 10k Sour	10,000	Sour
100-03-110	2" Fig 1502 Tee FFM 10k Sour	10,000	Sour
100-03-095	2" Fig 1502 Tee FMM 15k Std	15,000	Standard
100-03-108	2" Fig 1502 Tee FFM 15k Std	15,000	Standard



### 3" Fig 1502 Tees

Part Number	Description	NSCWP* (psi)	Service
100-04-140	3" Fig 1502 Tee FFM 10k Sour	10,000	Sour
100-04-144	3" Fig 1502 Tee FMM 10k Sour	10,000	Sour
100-04-091	3" Fig 1502 Tee FFM 15k Std	15,000	Standard
100-04-143	3" Fig 1502 Tee FMM 15k Std	15,000	Standard

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### 2" Fig 1502 Elbows

Part Number	Description	NSCWP* (psi)	Service
100-03-080	2" Fig 1502 Cushion Elbow FM 10k Sour	10,000	Sour
100-03-112	2" Fig 1502 Double Cushion Elbow FM 10k Sour	10,000	Sour
100-03-104	2" Fig 1502 Cushion Elbow FM 15k Std	15,000	Standard
100-03-106	2" Fig 1502 Double Cushion Elbow FM 15k Std	15,000	Standard



### 3" Fig 1502 Elbows

Part Number	Description	NSCWP* (psi)	Service
100-04-108	3" Fig 1502 Cushion Elbow FM 10k Sour	10,000	Sour
100-04-109	3" Fig 1502 Elbow FM 10k Sour	10,000	Sour
100-04-092	3" Fig 1502 Cushion Elbow FM 15k Std	15,000	Standard
100-04-093	3" Fig 1502 Elbow FM 15k Std	15,000	Standard

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### Crossovers

Part Number	Description	NSCWP* (psi)	Service
100-04-187	3" Fig 1502 Female x 3" Fig 206 M Crossover 10k Sour	2,000	Sour
100-04-193	3" Fig 1502 Male x 3" Fig 206 Female Crossover 2k Sour	2,000	Sour
100-06-027	3" Fig 206 FF Crossover 2k Sour	2,000	Sour
100-06-030	3" Fig 206 MF Crossover 2k Sour	2,000	Sour
100-06-031	3" Fig 206 MM Crossover 2k Sour	2,000	Sour
100-04-185	3" Fig 1502 Female x 2" Fig 1502 Male Crossover Body 10k Sour	10,000	Sour
100-04-189	3" Fig 1502 FF Crossover 10k Sour	10,000	Sour
100-04-191	3" Fig 1502 Male x 2" Fig 1502 Female Crossover 10k Sour	10,000	Sour
100-04-195	3" Fig 1502 MM Crossover 10k Sour	10,000	Sour
100-04-197	3" Fig 1502 Male x 2" Fig 1502 Female Crossover 15k Std	15,000	Standard
100-04-199	3" Fig 1502 FF Crossover 15k Std	15,000	Standard
100-04-253	3" Fig 1502 Male x 2" Fig 1502 Female Crossover 15k Std	15,000	Standard
100-04-255	3" Fig 1502 MM Crossover 15k Std	15,000	Standard



### 2" Blanking Caps

Part Number	Description	NSCWP* (psi)	Service
100-03-156	2" Fig 1502 Male Blanking Cap w/F562C 10k Sour	10,000	Sour
100-03-157	2" Fig 1502 Male Blanking Cap 10k Sour	10,000	Sour
100-03-163	2" Fig 1502 Female Blanking Cap w/ F562C 10k Sour	10,000	Sour
100-03-165	2" Fig 1502 Female Blanking Cap 10k Sour	10,000	Sour
100-03-097	2" Fig 1502 Male Blanking Cap w/F562C 15k Std	15,000	Standard
100-03-159	2" Fig 1502 Male Blanking Cap 15k Std	15,000	Standard
100-03-166	2" Fig 1502 Female Blanking Cap w/ F562C 15k Std	15,000	Standard
100-03-168	2" Fig 1502 Female Blanking Cap 15k Std	15,000	Standard

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Part Number	Description	NSCWP* (psi)	Service
100-04-134	3" Fig 1502 Male Blanking Cap 10k Sour w/F562C	10,000	Sour
100-04-138	3" Fig 1502 Male Blanking Cap 10k Sour	10,000	Sour
100-04-176	3" Fig 1502 Female Blanking Cap 10k Sour w/ F562C	10,000	Sour
100-04-177	3" Fig 1502 Female Blanking Cap 10k Sour	10,000	Sour
100-04-135	3" Fig 1502 Male Blanking Cap 15k Std w/F562C	15,000	Standard
100-04-139	3" Fig 1502 Male Blanking Cap 15k Std	15,000	Standard
100-04-179	3" Fig 1502 Female Blanking Cap 15k Std w/ F562C	15,000	Standard
100-04-180	3" Fig 1502 Female Blanking Cap 15k Std	15,000	Standard



### 3" Fig 1502 Data Header

Part Number	Description	NSCWP* (psi)	Service
100-04-127	3" Fig 1502 Data Header 24" 10k Sour	10,000	Sour
100-04-126	3" Fig 1502 Data Header 24" 15k Std	15,000	Standard

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### 2" Fig 1502 Pups

Part Number	Description	NSCWP* (psi)	Service
100-03-072	2" Fig 1502 10.31" Pup 10k Sour	10,000	Sour
100-03-181	2" Fig 1502 10.31" Pup w/ F562C 10k Sour	10,000	Sour
100-03-096	2" Fig 1502 10.31" Pup 15k Std	15,000	Standard
100-03-182	2" Fig 1502 10.31" Pup w/ F562C 15k Std	15,000	Standard



### 3" Fig 1502 Pups

Part Number	Description	NSCWP* (psi)	Service
100-04-123	3" Fig 1502 Pup 15.69" 10k Sour	10,000	Sour
100-04-125	3" Fig 1502 Pup 31.02" 10k Sour	10,000	Sour
100-04-263	3" Fig 1502 6" Pup 10k Sour	10,000	Sour
100-04-122	3" Fig 1502 Pup 15.69" 15k Std	15,000	Standard
100-04-124	3" Fig 1502 Pup 31.02" 15k Std	15,000	Standard

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## Debris Catcher

BRC Engineering manufactures double barrel horizontal debris catchers available in 5 and 10 valve models. The compact design allows for easy transport and maneuverability onsite.

End fitting support comes standard on all debris catcher manifolds to make for easier and safer screen changes. Flow through design allows for rig-in to blow down tank for easy cleanout if facilities exist. Designed to have minimal pressure drop across screen up to 85% screen capacity. All internal components have Black Armour™ treatment for protection against erosion and corrosion. Slide mechanism is black powder coated for a durable finish, even after repeated use.



**3" Fig 1502 Debris Catcher**

Part Number	Description	NSCWP* (psi)	Service
100-04-160	3" Fig 1502 Horizontal Debris Catcher 10k Sour	10,000	Sour
100-04-167	3" Fig 1502 Horizontal Debris Catcher 5 Valve Manifold 10k Sour	10,000	Sour
100-04-274	3" Fig 1502 Debris Catcher Minor Seal Kit	10,000	Sour
100-04-285	3" Fig 1502 Horizontal Debris Catcher 10 Valve Manifold 10k Sour	10,000	Sour
100-04-164	3" Fig 1502 Debris Catcher Screen - 3/8" Holes	-	-
100-04-273	Debris Catcher Screen Removal Tool	-	-

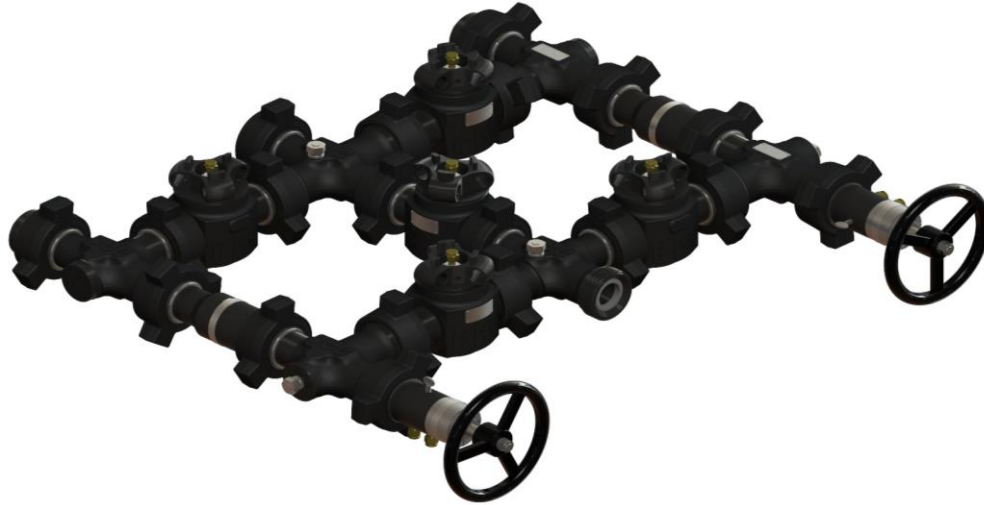
\*Non-Shock Cold Working Pressure

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## Manifolds

BRC Engineering premium flow control products can be configured into manifolds for countless applications.

Standard configurations of 2" and 3" flow back choke manifolds have been made available for reference. Custom manifold layouts can be made available upon request. Please contact BRC Engineering for more information.

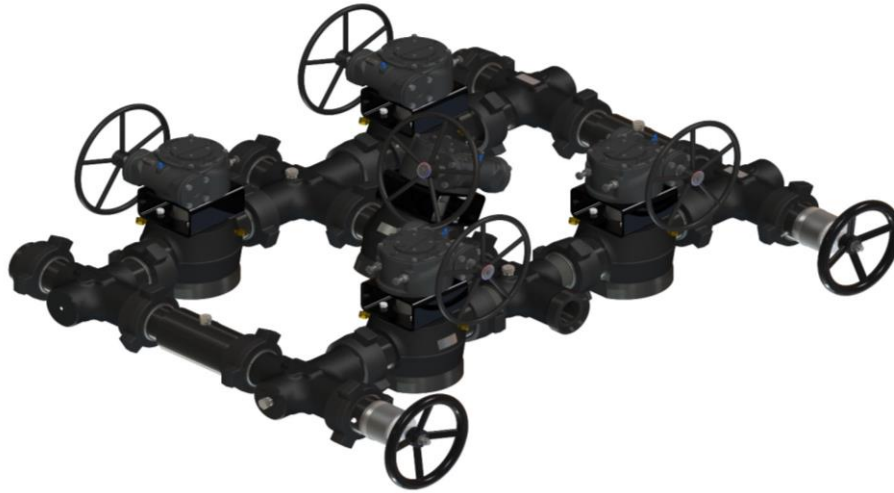


**2" Fig 1502 Manifolds**

Part Number	Description	NSCWP* (psi)	Service
100-03-130	2" Fig 1502 Nine Valve Single Drop w/ Dual Adjustable Chokes - 10k Sour	10,000	Sour
100-03-133	2" Fig 1502 Nine Valve Double Drop w/ Dual Adjustable Chokes - 10k Sour	10,000	Sour
100-03-136	2" Fig 1502 Nine Valve Single Drop w/ Dual Adjustable Chokes - 15k Std	15,000	Standard
100-03-139	2" Fig 1502 Nine Valve Double Drop w/ Dual Adjustable Chokes - 15k Std	15,000	Standard
100-03-142	2" Fig 1502 Single Drop 10 Valve w/ Dual Adjustable Chokes - 15k Std	15,000	Standard
100-03-143	2" Fig 1502 Single Drop 10 Valve w/ Dual Adjustable Chokes - 10k Sour	10,000	Sour
100-03-100	2" Fig 1502 Single Drop w/ Dual Adjustable Chokes - 15k Std	15,000	Standard
100-03-103	2" Fig 1502 Double Drop w/ Dual Adjustable Chokes - 15k Std	15,000	Standard
100-03-076	2" Fig 1502 Single Drop w/ Dual Adjustable Chokes - 10k Sour	10,000	Sour
100-03-079	2" Fig 1502 Double Drop w/ Dual Adjustable Chokes - 10k Sour	10,000	Sour
100-03-144	2" Fig 1502 Double Drop 10 Valve w/ Dual Adjustable Chokes - 15k Std	15,000	Standard
100-03-145	2" Fig 1502 Double Drop 10 Valve w/ Dual Adjustable Chokes - 10k Sour	10,000	Sour

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### 3" Fig 1502 Manifolds

Part Number	Description	NSCWP* (psi)	Service
100-04-202	3" Fig 1502 Five Valve Single Drop w/ Dual Adjustable Chokes 10k Sour	10,000	Sour
100-04-205	3" Fig 1502 Five Valve Double Drop w/ Dual Adjustable Chokes 10k Sour	10,000	Sour
100-04-208	3" Fig 1502 Nine Valve Single Drop w/ Dual Adjustable Chokes 10k Sour	10,000	Sour
100-04-211	3" Fig 1502 Nine Valve Double Drop w/ Dual Adjustable Chokes 10k Sour	10,000	Sour
100-04-214	3" Fig 1502 Ten Valve Single Drop w/ Dual Adjustable Chokes 10k Sour	10,000	Sour
100-04-217	3" Fig 1502 Ten Valve Double Drop w/ Dual Adjustable Chokes 10k Sour	10,000	Sour
100-04-220	3" Fig 1502 Five Valve Single Drop w/ Dual Adjustable Chokes 15k Std	15,000	Standard
100-04-223	3" Fig 1502 Five Valve Double Drop w/ Dual Adjustable Chokes 15k Std	15,000	Standard
100-04-226	3" Fig 1502 Nine Valve Single Drop w/ Dual Adjustable Chokes 15k Std	15,000	Standard
100-04-229	3" Fig 1502 Nine Valve Double Drop w/ Dual Adjustable Chokes 15k Std	15,000	Standard
100-04-232	3" Fig 1502 Ten Valve Single Drop w/ Dual Adjustable Chokes 15k Std	15,000	Standard
100-04-235	3" Fig 1502 Ten Valve Double Drop w/ Dual Adjustable Chokes 15k Std	15,000	Standard

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