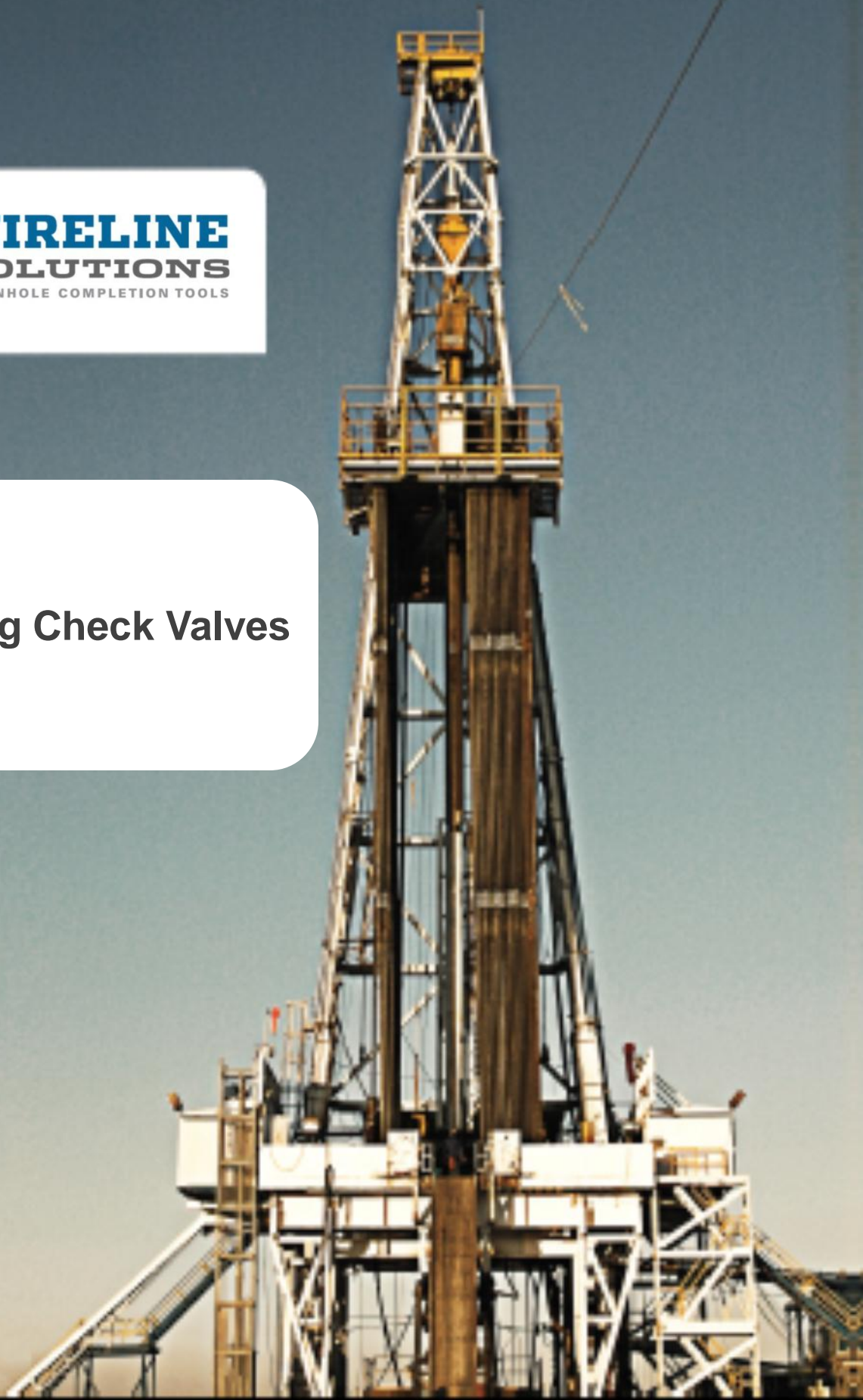




**WIRELIN
SOLUTIONS**
DOWNHOLE COMPLETION TOOLS

Equalizing Check Valves



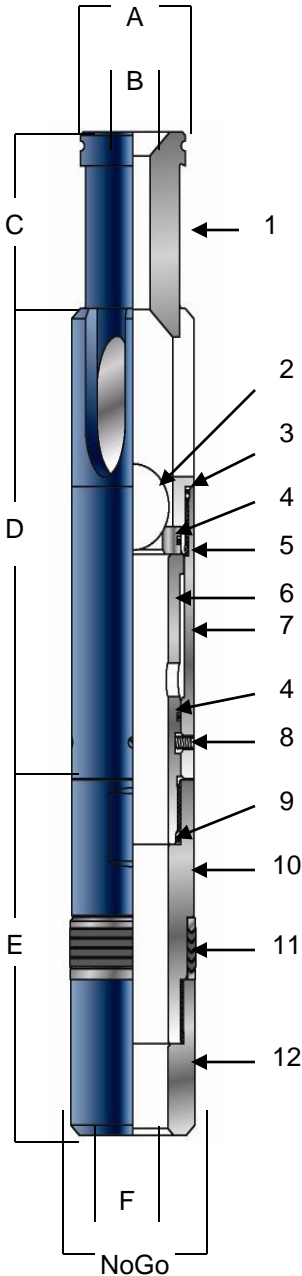
WRB-2 Equalizing Check Valve (Bottom NoGo)

Sizes 1.78 / 1.81 / 1.87

Equalizing Check Valves are sometimes called “Standing Valves” because they prevent fluid flow in one direction (downward) while allowing full fluid flow in the opposite direction (upward). The “WRB-2” seats on the bottom NoGo shoulder of a “WR” type profile which prevents downward movement. It is not locked into the profile, and has a built-in method of allowing equalizing before pulling.

To Run: C-1 Running Tool

To Release: SB or JDC Pulling Tool



MATERIAL SELECTION

4140 / L80

82,000 Yield

Resist Corrosion in

Sour Gas Environments

9C1M / 9 Chrome 1 Moly

80,000 Yield

High Resistance to Corrosion

in Sour Gas Environments

ITEM	PART NAME	No. REQ.
1	Fishing Neck	1
2	Stainless Steel Ball	1
3	O-Ring #127	1
4	O-Ring / #124	2
5	Ball Seat	1
6	By-Pass Mandrel	1
7	Equalizing Sleeve	1
8	Brass Shear Screw	2
9	O-Ring #218	1
10	Packing Mandrel	1
11	Packing Unit Assembly	1
12	Retaining Nut	1

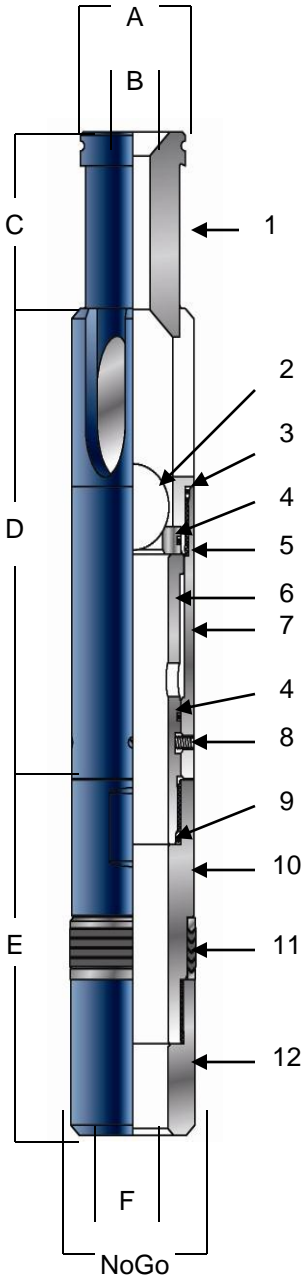
SIZE	NoGo	A	B	C	D	E	F
1.78	1.771	1.375	.438	3.430	6.660	5.590	1.062
1.81	1.802						
1.87	1.865						

WRB-2 Equalizing Check Valve (Bottom NoGo) Sizes 2.25 / 2.31

Equalizing Check Valves are sometimes called “Standing Valves” because they prevent fluid flow in one direction (downward) while allowing full fluid flow in the opposite direction (upward). The “WRB-2” seats on the bottom NoGo shoulder of a “WR” type profile which prevents downward movement. It is not locked into the profile, and has a built-in method of allowing equalizing before pulling.

To Run: C-1 Running Tool

To Release: SB or JDC Pulling Tool



MATERIAL SELECTION

4140 / L80

82,000 Yield

Resist Corrosion in

Sour Gas Environments

9C1M / 9 Chrome 1 Moly

80,000 Yield

High Resistance to Corrosion

in Sour Gas Environments

ITEM	PART NAME	No. REQ.
1	Fishing Neck	1
2	Stainless Steel Ball	1
3	O-Ring #133	1
4	O-Ring / #128	2
5	Ball Seat	1
6	By-Pass Mandrel	1
7	Equalizing Sleeve	1
8	Brass Shear Screw	2
9	O-Ring #222	1
10	Packing Mandrel	1
11	Packing Unit Assembly	1
12	Retaining Nut	1

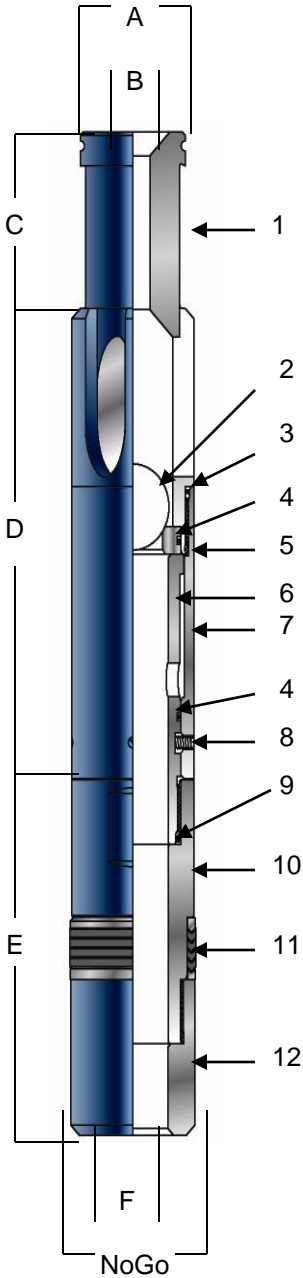
SIZE	NoGo	A	B	C	D	E	F
2.25	2.240	1.750	.438	3.310	8.310	5.750	1.250
2.31	2.302						

WRB-2 Equalizing Check Valve (Bottom NoGo) Sizes 2.75 / 2.81

Equalizing Check Valves are sometimes called “Standing Valves” because they prevent fluid flow in one direction (downward) while allowing full fluid flow in the opposite direction (upward). The “WRB-2” seats on the bottom NoGo shoulder of a “WR” type profile which prevents downward movement. It is not locked into the profile, and has a built-in method of allowing equalizing before pulling.

To Run: C-1 Running Tool

To Release: SB or JDC Pulling Tool



MATERIAL SELECTION

4140 / L80	9C1M / 9 Chrome 1 Moly
82,000 Yield	80,000 Yield
Resist Corrosion in Sour Gas Environments	High Resistance to Corrosion in Sour Gas Environments

ITEM	PART NAME	No. REQ.
1	Fishing Neck	1
2	Stainless Steel Ball	1
3	O-Ring #141	1
4	O-Ring / #135	2
5	Ball Seat	1
6	By-Pass Mandrel	1
7	Equalizing Sleeve	1
8	Brass Shear Screw	2
9	O-Ring #225	1
10	Packing Mandrel	1
11	Packing Unit Assembly	1
12	Retaining Nut	1

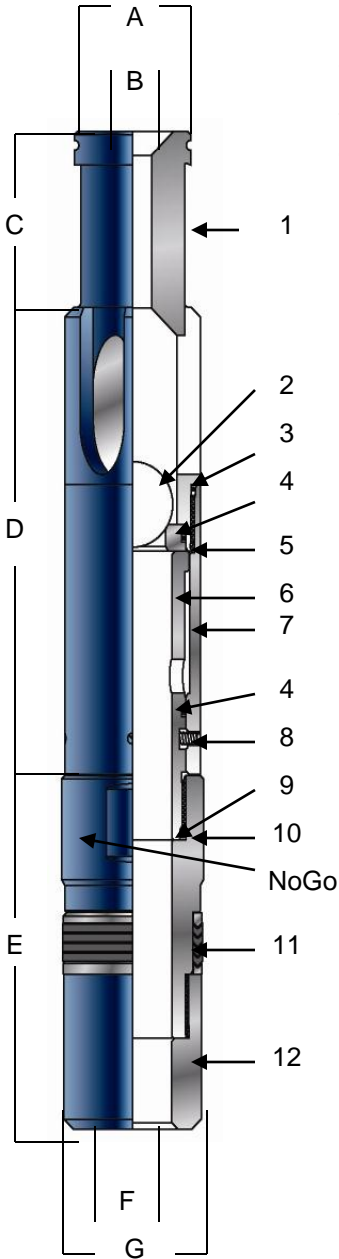
SIZE	NoGo	A	B	C	D	E	F
2.75	2.740	2.313	.750	3.310	8.320	7.180	1.563
2.81	2.802						

WFB-2 Equalizing Check Valve (Top NoGo) Sizes 1.78 / 1.81 / 1.87

Equalizing Check Valves are sometimes called “Standing Valves” because they prevent fluid flow in one direction (downward) while allowing full fluid flow in the opposite direction (upward). The “WFB-2” seats on the top NoGo shoulder of a “WF” type profile which prevents downward movement. It is not locked into the profile, and has a built-in method of allowing equalizing before pulling.

To Run: C-1 Running Tool

To Release: SB or JDC Pulling Tool



MATERIAL SELECTION

4140 / L80

82,000 Yield

Resist Corrosion in
Sour Gas Environments

9C1M / 9 Chrome 1 Moly

80,000 Yield

High Resistance to Corrosion
in Sour Gas Environments

ITEM	PART NAME	No. REQ.
1	Fishing Neck	1
2	Stainless Steel Ball	1
3	O-Ring #127	1
4	O-Ring / #124	2
5	Ball Seat	1
6	By-Pass Mandrel	1
7	Equalizing Sleeve	1
8	Brass Shear Screw	2
9	O-Ring #218	1
10	Packing Mandrel	1
11	Packing Unit Assembly	1
12	Retaining Nut	1

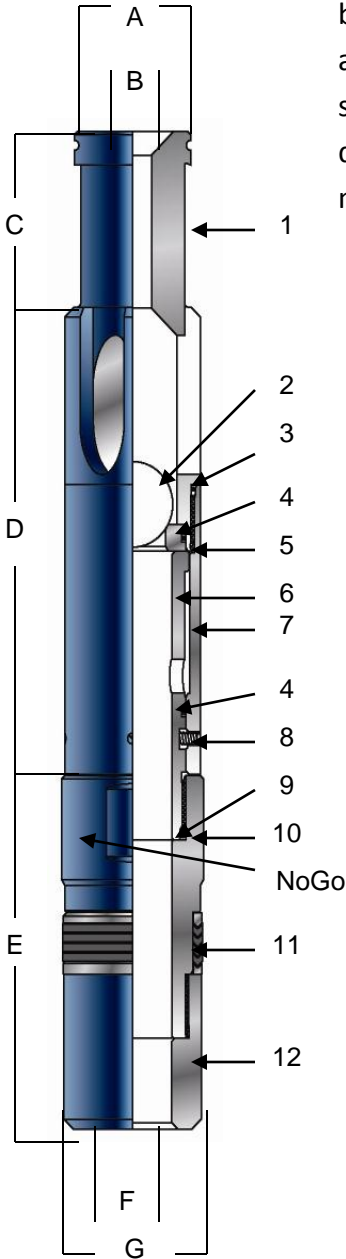
SIZE	NoGo	A	B	C	D	E	F	G
1.78	1.802	1.375	.438	3.430	6.660	5.590	1.062	1.771
1.81	1.865							
1.87	1.905							

WFB-2 Equalizing Check Valve (Top NoGo) Sizes 2.25 / 2.31

Equalizing Check Valves are sometimes called “Standing Valves” because they prevent fluid flow in one direction (downward) while allowing full fluid flow in the opposite direction (upward). The “WFB-2” seats on the top NoGo shoulder of a “WF” type profile which prevents downward movement. It is not locked into the profile, and has a built-in method of allowing equalizing before pulling.

To Run: C-1 Running Tool

To Release: SB or JDC Pulling Tool



MATERIAL SELECTION

4140 / L80	9C1M / 9 Chrome 1 Moly
82,000 Yield	80,000 Yield
Resist Corrosion in Sour Gas Environments	High Resistance to Corrosion in Sour Gas Environments

ITEM	PART NAME	No. REQ.
1	Fishing Neck	1
2	Stainless Steel Ball	1
3	O-Ring #133	1
4	O-Ring / #128	2
5	Ball Seat	1
6	By-Pass Mandrel	1
7	Equalizing Sleeve	1
8	Brass Shear Screw	2
9	O-Ring #222	1
10	Packing Mandrel	1
11	Packing Unit Assembly	1
12	Retaining Nut	1

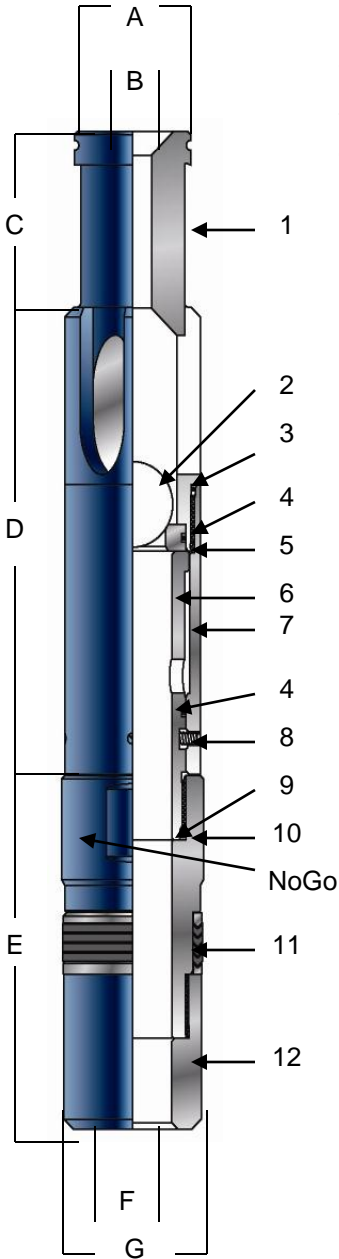
SIZE	NoGo	A	B	C	D	E	F	G
2.25	2.302	1.750	.438	3.310	8.310	5.750	1.250	2.240
2.31	2.365							

WFB-2 Equalizing Check Valve (Top NoGo) Sizes 2.75 / 2.81

Equalizing Check Valves are sometimes called “Standing Valves” because they prevent fluid flow in one direction (downward) while allowing full fluid flow in the opposite direction (upward). The “WFB-2” seats on the top NoGo shoulder of a “WF” type profile which prevents downward movement. It is not locked into the profile, and has a built-in method of allowing equalizing before pulling.

To Run: C-1 Running Tool

To Release: SB or JDC Pulling Tool



MATERIAL SELECTION

4140 / L80	9C1M / 9 Chrome 1 Moly
82,000 Yield	80,000 Yield
Resist Corrosion in Sour Gas Environments	High Resistance to Corrosion in Sour Gas Environments

ITEM	PART NAME	No. REQ.
1	Fishing Neck	1
2	Stainless Steel Ball	1
3	O-Ring #141	1
4	O-Ring / #135	2
5	Ball Seat	1
6	By-Pass Mandrel	1
7	Equalizing Sleeve	1
8	Brass Shear Screw	4
9	O-Ring #225	1
10	Packing Mandrel	1
11	Packing Unit Assembly	1
12	Retaining Nut	1

SIZE	NoGo	A	B	C	D	E	F	G
2.75	2.802	2.313	.750	3.310	8.320	7.180	1.563	2.740
2.81	2.865							