

# A-2- and M-Series Equalizing Standing Valves

The A-2- and M-series equalizing standing valves are slickline-retrievable, ball-and-seat-type check valves with integral running and pulling necks designed to hold pressure only from above.

## APPLICATIONS

- Flow control in single and dual completions with gas lift
- Packer setting tool
- Tubing testing tool

## BENEFIT

- Holds pressure applied above the valve and allows flow from below the valve

## FEATURES

- External fishing neck
- Integral equalizing device
- Available in various materials
- Reliable, field-proven design
- Rugged construction with a large flow area

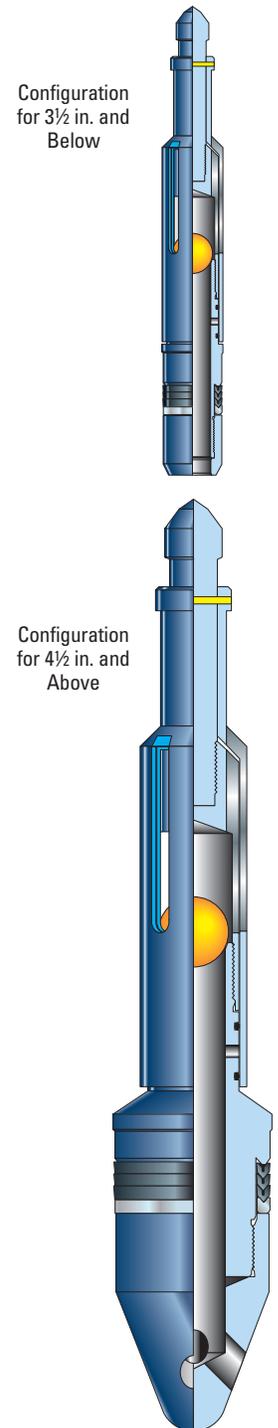
Equalizing standing valves are used in intermittent gas lift wells to contain fluid in the tubing string during an injection cycle. They are also used to set packers and test the tubing string.

Both the A-2- and the M-series equalizing standing valves run in A- series seating nipples and allow pressure to be equalized before they are retrieved from the nipple. The M- series equalizing standing valves are similar to the A-2-series valves. The main difference is that the M-series valves employ a collet-type hold-down that anchors the valve and prevents it from being unseated by upward flow. The M-1 and the M1-DS valves feature a longer packing barrel than the other M-series valves. The longer packing barrels enable them to be set in D or DS nipples, respectively. M1-DS valves can also be set in specific sizes of A- series seating nipples.

## DESCRIPTION AND OPERATION

The A-2- or M-series equalizing standing valve is installed in the well using standard slickline methods. The appropriate JD-series pulling tool and attached standing valve are lowered into the tubing until the assembly shoulders against the packing bore of the nipple. The valve packing seals in the polished section. Downward jarring releases the JD pulling tool for retrieval to the surface.

When removing the equalizing standing valve, upward jarring with the appropriate JD-series pulling tool equalizes and removes the assembly.



Configuration for 3½ in. and Below

Configuration for 4½ in. and Above

A-2 Equalizing Standing Valves

# A-2- and M-Series Equalizing Standing Valves

<b>A-2- and M-Series Equalizing Standing Valves Specifications</b>				
<b>Type</b>	<b>No-Go OD (in. [mm])</b>	<b>Packing OD<sup>†</sup> (in. [mm])</b>	<b>Fishing Neck Size (in. [mm])</b>	<b>Running and Pulling Tool</b>
A-2	1.250 [31.8]	1.187 [30.1]	0.875 [22.2]	1¼-in. JDS
	1.312 [33.3]	1.250 [31.8]		
M	1.312 [33.3]	1.250 [31.8]		
A-2	1.480 [37.6]	1.437 [36.5]		
M	1.500 [38.1]	1.437 [36.5]		
M-1	1.485 [37.7]	1.437 [36.5]		
	1.610 [40.9]	1.562 [39.7]		
A-2	1.610 [40.9]	1.562 [39.7]		
	1.687 [42.8]	1.625 [41.3]		
	1.859 [47.2]	1.812 [46.0]		
M-1	1.874 [47.6]	1.812 [46.0]	1.375 [34.9]	2-in. JDS
M	1.859 [47.2]	1.812 [46.0]		
M-1 DS	1.895 [48.1]	1.875 [47.6]		
A-2	2.296 [58.3]	2.250 [57.2]		
M	2.296 [58.3]	2.250 [57.2]		
M-1	2.296 [58.3]	2.250 [57.2]		
M-1 DS	2.345 [59.6]	2.312 [58.7]	1.375 [34.9]	
IN	2.795 [71.0]	2.750 [69.9]	2.312 [58.7]	3-in. JDS
M-1	2.795 [71.0]	2.750 [69.9]		
M1-DS	2.856 [72.5]	2.812 [71.4]		
A-2	3.370 [85.6]	3.312 [84.1]		
	3.540 [89.9]	3.437 [87.3]		
	3.672 [93.3]	3.625 [92.1]		
	3.735 [94.9]	3.687 [93.6]		
	3.785 [96.1]	3.750 [95.3]		
	3.843 [97.6]	3.813 [96.9]		
	3.937 [100.0]	3.875 [98.9]		
	4.545 [115.4]	4.500 [114.3]		

<sup>†</sup> Other sizes are available on request. Contact your local Schlumberger representative.

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