

## Multi-Service Valve

Superior Completion Services' **Multi-Service Valve** provides zonal isolation and full-bore completion control. Communication can be easily established with conventional B or BO shifting tools or special coiled tubing shifting tools. The special slimline OD allows the valve to be run inside of the screen or liner assemblies while still maintaining optimum flow areas. The valve is available with both a standard and a selective profile allowing multiple valve usage in the same wellbore.

### APPLICATIONS

- Both gravel pack and non-gravel pack installations
- Selective production
- Pre- and post-treatment zonal isolation

### Features and Benefits

- Includes wireline-landing nipple profile above and packing bore below the valve mechanism for testing and contingency isolation
- Circulation ports have a larger flow area than the landing nipple and packing bore, which produces lower velocities and pressure drops across the ports
- Standard model B or BO shifting tools can be used to open and close the valve
- A special coiled tubing shifting tool is available with pump-through and bypass features
- Proprietary non-elastomeric packing provides excellent resistance to harsh chemical environments and high differential pressures
- Equalizing ports prevent damage to packing seals during valve opening
- Design certification includes differentially cycled 5,000 psi (34.5 MPa) with gas, 50 cycles at 250°F (121°C) testing
- Valve can be run in type-O (opens down) or type-A (opens up) configurations
- May also be actuated with special hydraulic shifting tools or wireline tractor systems



## Multi-Service Valve (MSV)

### TECHNICAL DATA

Standard temperature rating                      300°F (149°C)  
 Maximum temperature rating                    350°F (177°C)

Multi-Service Valve											
Nominal OD		Minimum OD		Packing Bore Diameter		Tensile Yield Load		Differential Pressure Rating			
inch	mm	inch	mm	inch	mm	lb	kg	psi	MPa	inch <sup>2</sup>	mm <sup>2</sup>
2 1/16	52.4	2.35	59.6	1.63	41.3	51,000	23,192	8,000	55	4.71	3,040.0
2 3/8	60.3	2.71	68.8	1.88	47.6	104,000	47,273	10,000	69	5.89	3,800.0
		2.71	68.8	1.78	45.2	104,000	47,273	10,000	69	5.89	3,800.0
2 7/8	73.0	3.44	87.3	2.19	55.6	98,190	44,632	10,000	69	9.62	6207.1
		3.25	82.6	2.31	58.5	98,190	44,632	10,000	69	9.62	6207.1
		3.27	83.1	2.31	58.8	98,190	44,632	10,000	69	9.62	6207.1
		3.19	80.9	2.19	55.6	98,190	44,632	12,500	86	9.62	6207.1
		3.44	87.3	2.19	55.6	98,190	44,362	15,000	103.5	9.62	6207.1
3 1/2	88.9	3.97	100.7	2.81	71.5	196,327	89,240	8,000	55	18.80	12,129.0
		3.87	98.3	2.56	65.1	230,000	104,545	10,000	69	18.80	12,129.0
		3.87	98.3	2.56	65.1	270,270	104,545	10,000	69	18.80	12,129.0
		3.97	100.7	2.75	69.9	230,000	104,545	10,000	69	18.80	12,129.0
		3.97	100.7	2.81	71.5	230,000	104,545	10,000	69	18.80	12,129.0
		3.87	98.3	2.56	65.1	250,000	113,636	11,000	76	18.80	12,129.0
		4.00	101.6	2.56	65.1	250,000	113,636	11,000	76	18.80	12,129.0
		4.07	103.3	2.56	65.1	250,000	113,636	11,000	76	18.80	12,129.0
		4.32	109.8	2.56	65.1	286,690	113,636	11,000	76	18.80	12,129.0
		4.00	101.6	2.56	65.1	250,000	122,850	12,500	86	18.80	12,129.0
		3.97	100.7	2.75	69.6	230,000	130,314	12,500	86	18.80	12,129.0
		3.97	100.7	2.81	71.5	286,690	130,314	12,500	86	18.80	12,129.0
		4.035	102.5	2.56	65.1	230,000	104,545	15,000	103.5	18.80	12,129.0
4 1/2	114.3	5.01	127.3	3.69	93.7	202,730	92,150	10,000	69	14.85	9,580.6

**REFERENCES**

- PX profile nipple data sheet
- PR profile nipple data sheet
- Model B/Model BO shifting tools data sheet