Product Application

Choke valve can be divided into fixed type, needle type, cage type and orifice type. It can adjust fluid flow and pressure though changing the cross session of the channel. The medium has great velocity between choke valve disc and valve seat, which will lead cavitation on the surface of adjusting parts. In order to reduce cavitation damage , all controller made by Douson are manufactured with cavitation resistant material(wearing resistant alloy).

The advantages of choke valve:

Simple structure is convenient to manufacture and maintain, additionally, the cost is low.

The shortages of choke valve:

Adjusting accuracy is low, sealing surface is easy to erode, and it cannot be used to cut medium.

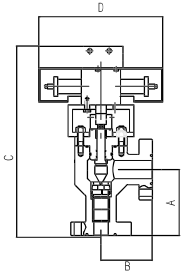


MOV Orifice Choke Valve

Orifice choke valve adopts a rotating fork, generally speaking, orifice choke valve only need 90°or 180°rotating direction, in this way, switch can be regulated. Rotating fork possesses lock position at both ends, which greatly improve the stiffness of rotating fork and make it move stably, and in this way, vibration has been reduced. With actuator, fast and precise regulation can be realized. That's why we say orifice possesses a large range of application.

Specification	
Nominal Bore	1" ~ 6"
Working Pressure	2000psi ~ 10,000 psi
Temperature	-50° F ~ +250° F (-46°C ~ +121°C)
Body Material	AA,BB,CC,DD,EE,FF,HH





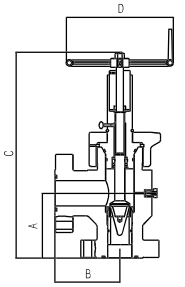
size	working pressure rating(psi)	choke aperture(in)	A(mm)	B(mm)	C(mm)	D(mm)	weight(kg)
2-1/16"	5000	1-3/8"	265	210	900	300	139
3-1/8"	5000	1-9/16"	289.1	225	795.5	545	144
4-1/16"	5000	3"	462	300	1130	300	230
3-1/16"	10000	1-9/16"	273	273	779.3	545	150

H2 Adjustable Choke Valve

H2 adjustable choke valve has forged steel valve body, which is characterized as high pressure resistance and erosion resistance. It can be operated manually.The structure is simple and maintenance is low. It is equipped with serialized and standard choke aperture.



size	working pressure rating(psi)	choke aperture(in)	A(mm)	B(mm)	C(mm)	D(mm)	weight(kg)
2-1/16"	2000	1"	198.4	169.9	577.3	280	77
	3000		203.2	175	582	280	86
	5000		203.2	175	582	280	86
	10000		223.8	195.3	603	280	90
	15000		261.9	225.4	641	243	100
2-9/16"	2000	1"	198.4	169.9	578	280	124
	3000		209.6	176.2	589	280	136
	5000		209.6	176.2	589	280	137
	10000		236.5	208	616	280	150
	15000		298.5	266.7	677.5	343	151
3-1/8"	2000	2"	289.1	225.6	799.3	343	170
	3000		289.1	225.6	799.3	343	185
	5000		289.1	225.6	827.2	343	185
3-1/16"	10000	2"	298.5	263.7	808	343	246
	15000		295.3	262.7	823	432	246
4-1/16"	2000	3"	217.4	217.4	786	432	270
	3000		235	235	805	432	273
	5000		311.2	311.2	880	432	286
	10000		262.5	262.5	830	432	287
	15000		296.9	296.9	865.5	432	293



Specification	
Nominal Bore	2-1/16"~ 4-1/16"
Working Pressure	2000psi ~15000 psi

Specification	
Application	high flow capacity, moderate corrosion
Working Pressure	2000psi ~ 10,000 psi
Temperature	-75° F ~ +350° F (-60°C ~ +177°C)
Body Material	AA,BB,CC,DD,EE,FF,HH

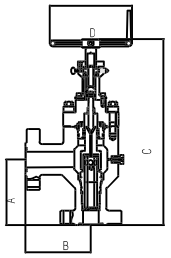
MOS Multi Orifice Sleeve Choke Valve



It can be used to control fluid flow in various service conditions, including single-phase and poly-phase(oil, gas and water). This kind of choke valve can be operated manually and actuated with electric actuator or hydraulic actuator.

MOS choke valve is designed to meet the continually changing needs of today's following reservoirs.The unique design is configured to ensure excellent flow rato control of all well types over a wide range of service conditions.

size	working pressure rating(psi)	choke aperture(in)	A(mm)	B(mm)	C(mm)	D(mm)	weight(kg)
2-9/16"	15000	2"	273	273	725	343	142
3-1/8"	2000	2"	225.6	225.6	772		157
	3000						168
	5000		240	240	692		190
	10000		273	273	725		212
4-1/16"	2000	2"	268.7	253	720		259
	3000						279
	5000		298.5	263.7	750		310
	10000		322.6	322.6	775		329



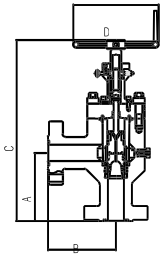
Specification	
choke controller	tungsten carbide casing
Working Pressure	5000psi ~ 20,000 psi
Temperature	-75° F ~ +400° F (-60°C ~ +204°C)
Body Material	AA,BB,CC,DD,EE,FF,HH

EXT Cage and External Sleeve Choke Valve



With integral cage design technology, inner annular space had been increased, and in this way, the possibility of corrosion for valve core shall be reduced and maximum flow control shall be provided. Valve body and valve bonnet are sealed with metal, and valve stem is sealed in assistance of PTFE multiple level lip spring, which guarantee the sealing performance. With 64-case visual position indicator, the fluid flow is well controlled. Our customers can choose freely from Manually type, hydraulically type, pneumatically type and electrically type. It is simple to maintain and the manufacture cost is low.

size	working pressure rating(psi)	choke aperture(in)	A(mm)	B(mm)	C(mm)	D(mm)	weight(kg)
2-9/16"	15000	2"	273	273	776	343	149
3-1/8"	2000	2"	225.6	225.6	772		162
	3000						173
	5000		240	240	692		194
	10000		273	273	725		215
4-1/16"	2000	2"	268.7	253	720		263
	3000						282
	5000		298.5	263.7	802		313
	10000		322.6	322.6	826		332



Specification	
Nominal Bore	1.13/16"~7.1/16" (46mm~180mm)
Working Pressure	2000psi ~ 20,000 psi
Temperature	-46°C~121°C (LU level)
Body Material	AA,BB,CC,DD,EE,FF,HH

POS Positive Choke valve

For positive choke valve, special tools are adopted to replace oil nozzle. In this way, flow section can be controlled to control flow fluid. Choke oil nozzle is manufactured with ceramic or cemented carbide, which is characterized as wearing resistance and erosion resistance, which is convenient to replace with special tool. Valve body and valve bonnet are connected with union, which make it easy to replace oil nozzle.

size	working pressure rating(psi)	choke aperture(in)	A(mm)	B(mm)	C(mm)	weight(kg)
2-1/16"	2000	1"	198.4	169.9	230	73
	3000		203.2	175	230	80
	5000		203.2	175	230	80
	10000		223.8	195.3	230	82
	15000		261.9	225.4	270	96
2-9/16"	2000	1"	198.4	169.9	230	120
	3000		209.6	176.2	230	129
	5000		209.6	176.2	230	129
	10000		236.5	208	230	142
	15000		298.5	266.7	270	143
3-1/8"	2000	2"	289.1	225.6	270	164
	3000		289.1	225.6	270	180
	5000		289.1	225.6	270	180
3-1/16"	10000	2"	298.5	263.7	270	240
	15000		295.3	262.7	302	240
4-1/16"	2000	3"	217.4	217.4	302	260
	3000		235	235	302	268
	5000		311.2	311.2	302	270
	10000		262.5	262.5	302	273
	15000		296.9	296.9	302	280



