

AUDCO Plug Valves

Steam Jacketed

Cast Iron & Carbon Steel,
Regular & Venturi Pattern - Standard Type

AUDCO Lubricated Taper Plug Valve has been successfully used in a variety of services because of its unique in line maintenance capability. The Plug and Body seating surfaces, which are lapped and matched, are not exposed to the line fluid; this confines corrosion and erosion to less critical areas. Sealing is further enhanced by a specially developed plug sealant charged evenly around the seating surfaces. Plugs from 1½" are impregnated with a PTFE based anti-friction agent - 'SUPER LoMu' which provides greater wear resistance and ensures low consistent operating torque. SUPER LoMu also enhances resistance to seizure.

Steam jacketed valves have an integral chamber around the body. The chamber is provided with inlet and outlet screwed connections for passing steam. This feature helps to keep the line fluid heated and prevents solidification inside the valve.

OPERATION

Steam Jacketed Lubricated Taper Plug Valves are all supplied with square stems suitable for wrench operation (MJ/MWJ/KWJ Series). Wrenches, as required, should however be ordered separately. 6" valves can be offered with Heavy Duty Worm Gear Unit (KGJ Series). Wrenches and Gear Units should be selected as determined by the service conditions, which influence the operating torque. Gear Units as ordered are installed on the valves and supplied.

Cast Iron Valves (MJ Series) and Carbon Steel Valves (MWJ Series) of sizes upto 4" are of Regular Pattern. Carbon Steel Valve (KWJ/KGJ Series) of size 6" is of Venturi Pattern.

As a standard, Steam Jacketed Valves are supplied with AUDCO 731 Plug sealant which is suitable for most services other than acid solutions and petroleum products. On request, plug sealant from a wide range offered, can be supplied to suit the nature of service. It is recommended that you consult us before selecting the plug sealant for a new service.

END CONNECTIONS

Valves can be offered with flanged ends to the following standards.

- Cast Iron Valves:** BS10 Table D and F ANSI/ASME B16.1 Class 125.
Drilling to DIN 2523 PN 10, BS 4504 PN 10, BS 10 Table E or undrilled flanges can also be offered.
- Carbon Steel Valves:** ANSI/ASME B16.5 Class 300 RF, spirally serrated.
Drilling to DIN 2545 PN 40 or BS 4504 PN40 can be offered.

CATALOGUE NUMBER

A familiarity with our Catalogue number is not necessary when specifying our Valves.

Provide the following details of the valves to our Distributor/Stockist:- Size, Type, Line Fluid,

Materials of construction, Pressure Rating, End Connection and Type of Operation.

MATERIAL SPECIFICATION

Name of Part	Specification	
	MJ 11/11F13	MWJ/KWJ/KGJ33
Body	Cast Iron IS210 Gr. FG220	Carbon Steel, ASTM A 105 upto 1" ASTM A 216 Gr. WCB for sizes 1½" & above
Cover, Gland & Plug	Cast Iron IS 210 Gr. FG 220	ASTM A216 Gr WCB/ IS:2062
Bolting Studs Hex. Screw/ Hex. Nut	Carbon Steel BS:970 220 M07 ANSI B18.2.1 ANSI B18.2.2	Alloy Steel. ASTM A 193 Gr. B7 & A 194 Gr. 2H
Shim	Mild Steel, Nickel Plated	
Gland packing	Rubberised Asbestos	
Gasket	Compressed Asbestos	



TECHNICAL DATA

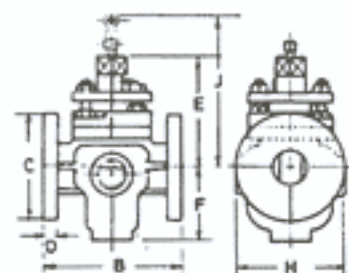
Catalogue No.	End Connection	Max C.W.P.		Test Pressure (psig)	
		psig	bar	Body	Seat
MJ11	Flanged BST'D'	100	7	225	165
MJ11F	Flanged BST'F'	150	10	225	165
MJ13	Flanged Class 125	200	14	300	220
MWJ33/KWJ33/KGJ33	Flanged Class 300 RF	740	51	1125	815

Maximum Working pressure recommended in Jacket-125 psig.

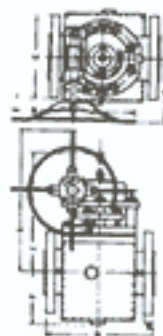
Test pressure for body and seat including duration of test conforms to BS 6755 Part I

DIMENSIONS (mm)

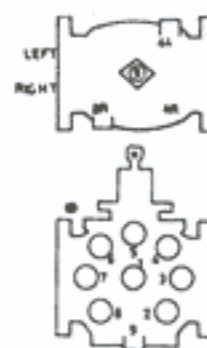
Size	1" DN25	1.1/2" DN40	2" DN50	3" DN80	4" DN100	6" DN150	
Face to Face MJ MWJ/KWJ/KGJ	B	139.7 158.8	165.1 190.5	203.2 215.9	241.3 282.4	355.6 403.4	
Flange diameter BST 'D' BST 'F' CL. 125 CL. 300	C	120.7 120.7 108.0 124.0	133.4 139.7 127.0 155.4	152.4 165.1 152.4 165.1	184.2 203.2 190.5 209.6	215.9 228.6 228.6 254.0	317.5
Flange thickness MJ MWJ/KWJ/KGJ	D	12.7 17.5	15.7 20.6	19.1 22.4	19.1 28.4	23.8 31.8	36.6
CL/to top of plug MJ MWJ/KWJ	E	121 117	155 152	173 176	227 230	248 246	282
C/L to bottom of body MJ MWJ KWJ/KGJ	F	75 51 -	97 65 -	114 81 -	143 114 -	178 140 -	159
H/W diameter	G	-	-	-	-	578	
Max. width MJ MWJ KWJ	H	105 78 -	130 105 -	162 125 -	183 152 -	229 219 441	
Clearance MJ MWJ/KWJ KGJ	J	175 170 -	213 210 -	249 265 -	318 325 -	338 343 403 468	
C/L to H/W face KGJ	K	-	-	-	-	308	
C/L to top KGJ	L	-	-	-	-	589	
Size of Jacket connections	3/4" BSP Tr	1" BSP Tr	1.1/4" BSP Tr	1.1/4" BSP Tr	1.1/2" BSP Tr	3/4" NPT	
No. of Jacket connections	3	3	3	3	5	3	
Positions of Jacket connections	IR IL	IR IL	IR IL	IR IL	6R 6L 4R 4L	IR IL	
	9	9	9	9	9	9	
Wrench No.	3H	4H	5H	7H	8H	10H	
Sealant Stick Size	A	B	C	D	D	E	



Sizes 1" - 6"
Wrench operation



Size 6"
Worm gear unit operation



Positions of
Jacket Connections

1/16" raised face height is included in face to face dimension and flange thickness of Carbon Steel Valves

As we continuously endeavour to improve our products, the data given herein are subject to change.

Manufactured by



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