

Water, Fuel
Working Pressure 0 - 3,500kpa
Municipal, Mining, Infrastructure



The 33 series range of Automatic Control Valves (ACVs) has been optimised to represent a major step forward in control valve application. It continues to represent the high quality, reliable and dependable valve that Mack has always stood for, and has been re-engineered for today's demanding expectations.

All of Mack's ACVs will come standard with full 316 stainless steel trim for enhanced corrosion protection (unless ordered for bespoke application) and is designed & manufactured in accordance with IAW AS5081.

Mack's 33 series is used across the Infrastructure, Mining and Fire Protection industries, wherever the demand for absolute dependability exists. It can be fitted for in excess of 20 configurations, to ensure it does the job you need.

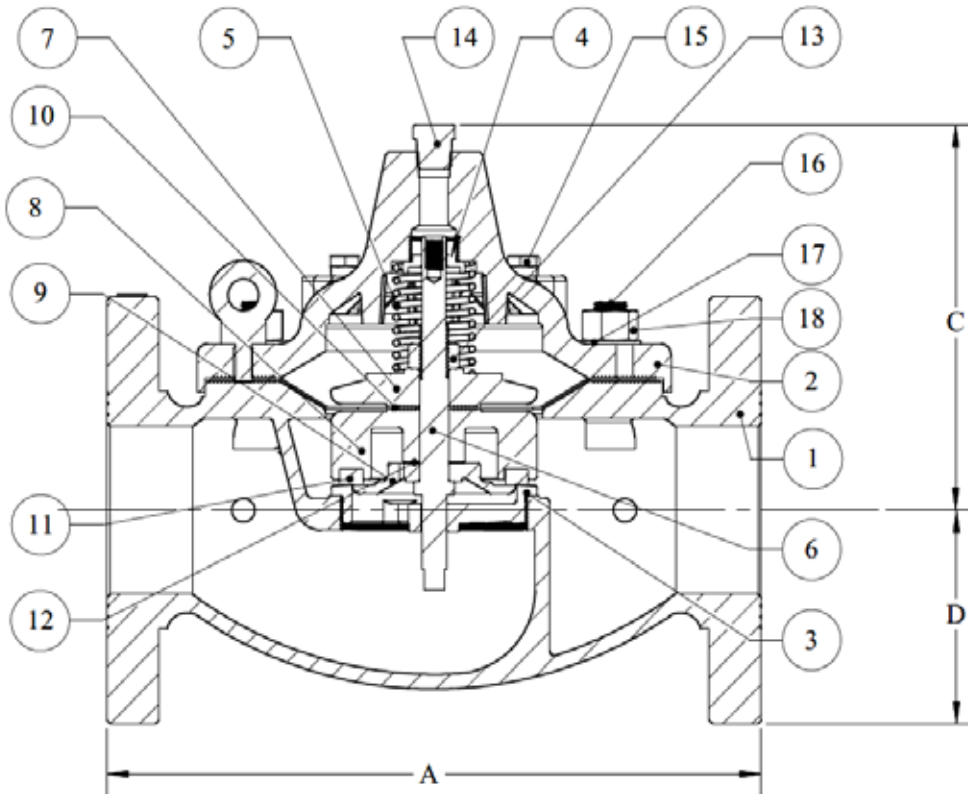
SELECTION & APPLICATION

The new 33 Series range comes standard in ductile iron, FBE coated, and is available in sizes from 50mm to 250mm. It can be used for a whole range of liquid mediums including potable water, seawater, aviation fuel, diesel and many others, and has been certified to AS4020 for products in contact with drinking water. Specialist application pilot systems allow the valve to be used in all applications from water level management, to pump and flow control.

PRODUCT NUMBERING

Automatic Control Valves												
33	-	#	#	##		#	-	##		-	###	
Base No.	-	Body Material	Trim Material	Flange Drilling		Special Feature		-	Pilot Configuration		-	Size
33		6 Ductile Iron	2 BR	00	Undrilled	S	Standard		11	Rate of Flow		050
			4 SS	1A	ANSI 150	C	Anti-Cavitation Trim		13	Sustaining/Relief		080
				1U	AS4087 PN16	V	V-Port Trim		18	Pressure Reducing		100
				2U	AS4087 PN21	F	Viton Elastomers		22	Main Valve Only		150
				3A	ANSI 300	I	Visual Position Ind.		23	Ball Float		200
				3U	AS4087 PN35				26	Solenoid		250
				DE	Table D/E				28	Altitude		300
				F0	Table F				34	Twin Solenoid		

All build options are available from Mack on special order, thus enabling clients to create their own specifications for their own specific needs, but our stock is based around common material specifications favoured by the water, mining and infrastructure industries.



ITEM NO.	DESCRIPTION
1	Body
2	Cover
3	Seat
4	Cover Bearing
5	Spring
6	Stem
7	Diaphragm Washer
8	Disc Retainer
9	Disc Guide
10	Diaphragm
11	Disc
12	Space Washer
13	Hex Nut
14	Hex Plug
15	Hex Plug
16	Stud
17	Washer
18	Hex Nut
19	Eye Bolt
20	Name Plate Inlet
21	Name Plate
22	Drive Pin (No Shown)

	Dimensions				Standard Port			Anti-Cavitation Trim			V-Port			Volume of Cover Chamber (L)	Weight (Kg)
	A	B	C	D	Flow Range (L/sec)	Head Loss Required (KPa)	Cv Factor	Flow Range (L/sec)	Head Loss Required (KPa)	Cv Factor	Flow Range (L/sec)	Head Loss Required (KPa)	Cv Factor		
50mm	245	168	141	83	1.5 - 14	69	1.65	0.7 - 14	108	1.32	0.25 - 14	191	0.99	0.12	17
80mm	349	230	183	105	3.0 - 30	87	3.23	1.5 - 30	135	2.59	0.5 - 30	240	1.94	0.38	35
100mm	403	292	230	127	5.0 - 52	98	5.24	2.5 - 52	153	4.19	0.8 - 52	272	3.14	0.60	63
150mm	533	405	308	159	11 - 118	92	12.28	6.0 - 118	144	9.82	2.0 - 118	255	7.37	2.00	136
200mm	671	507	380	190	20 - 204	120	18.56	10 - 204	188	14.85	3.0 - 204	334	11.14	4.20	216
250mm	791	604	451	222	30 - 321	131	28.08	16 - 321	204	22.47	5.0 - 321	363	16.85	7.60	345

Notes:

- 1) Maximum flow is based on velocity of 6 m/s
- 2) Recommended maximum velocity for continuous service is 6 m/s
- 3) Recommended maximum velocity for intermittent service is 7.5 m/s
- 4) Recommended maximum velocity for momentary service is 14.0 m/s
- 5) Cv units are L/sec per $\sqrt{\text{KPa}}$
- 5) All specific sizing can be calculated as per application

