

CAGE TRIM CONTROL VALVE

SERIES: N20

The *Series N20* cage valves have been specifically designed to operate under tough conditions, when phenomena like cavitation, flashing or high noise levels play an important role.

In gas and steam services a triple cage *N20* valve is up to 30 dBA more quiet than a traditional globe valve. *N20* valves are available with an open window cage (for plug balancing purposes only), single, double or a triple cage (for low noise purposes only).

SPECIFICATIONS

Valve body

Type: globe, single seat
Connections: flanged UNI 2223/29
PN16-250 / ANSI 150-1500 RF

Materials

-carbon steel ASTM A 216 WCB
-stainless steel ASTM A 351 CF8M

Bonnet

-normal
-finned
-extended

Bonnet packing

-PTFE coal graphite rings
-graphite

Trim

Flow Characteristic

-equal percentage
-linear
-on / off

Seat / plug seal

-metal to metal
-Resilient

Leak rate

-CL. IV ANSI B16.104 (metal seal) unbalanced plug
-CL. IV ANSI B16.104 (resilient seal) unbalanced plug
-CL. IV ANSI B16.104 (metal seal) balanced plug
-CL. IV ANSI B16.104 (resilient seal) balanced plug



Actuator

Type: diaphragm
Handwheel (on request)

-top
-Side

Air connection

1/4" NPT, F
(3/8" NPT, F for actuator size 450/600)

OPTIONS

Valve body

Connections

-flanged ANSI 2500RF/RJ-PN 400
-S.W. according to ANSI B16.11
-B.W. according to ANSI B16: 25

Materials

-steel A 352 LCB (for low temperature)
-steel A 217 WC9
-Hastelloy

Bonnet

-finned (>300°C)
-bellow seal

Cage / plug materials

-AISI 316 stellited

Actuator

-reinforced execution: supply pressure max. 6 bar
-diaphragm: silicon rubber linen reinforced (T. AMB. -50/130°C)

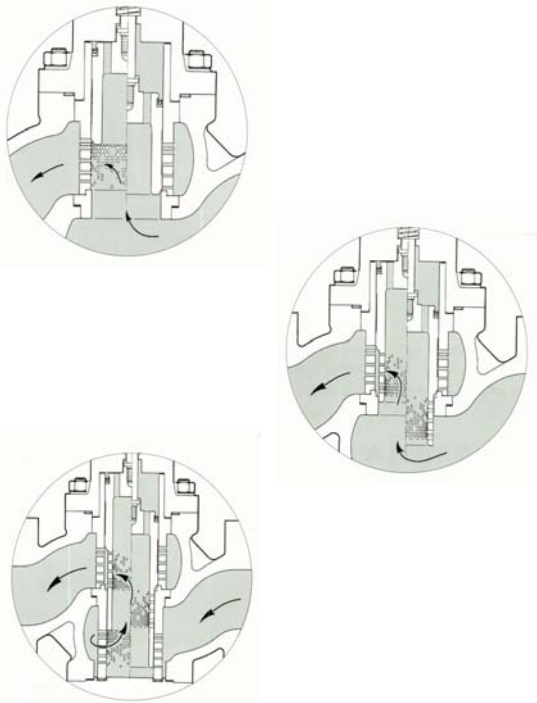
Materials

-Yoke: steel / stainless steel
-Plates: stainless steel

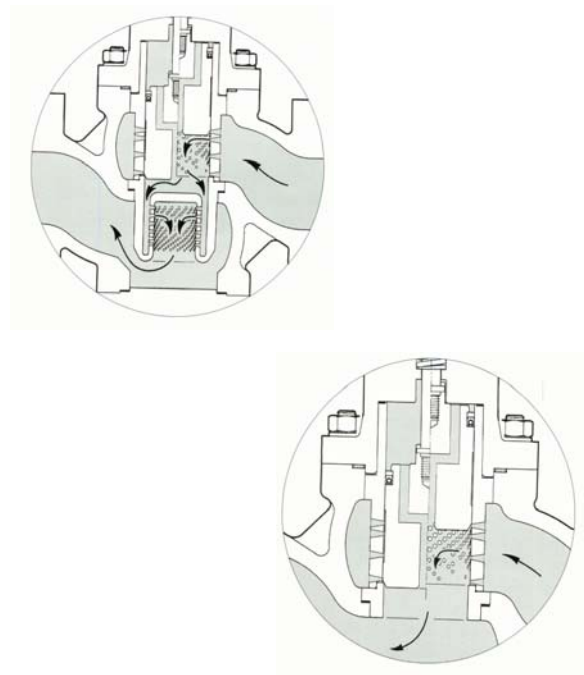
TABLE FOR CV VALUES

			CV VALUE								
Size (mm)	Stroke (mm)	Rangeability	Open Cage		Multi-Holes Single Cage		Multi-Holes Double Cage		Multi-Holes Triple Cage		
			Lin.	=%	Lin.	=%	Lin.	=%	Lin.	=%	
25	22	50 / 1	13		10	8	/	/	/	/	
			6		5	4	/	/	/	/	
40	22		32		22	18	13	10	10	8	
			13		9	7	5	4	4	3	
50	34		50		43	35	24	19	20	16	
			20		17	14	11	7	9	6	
80	50		111		100	80	62	45	51	36	
			45		33	26	25	14	21	12	
100	50		165		145	116	93	65	75	53	
			66		58	47	42	26	34	21	
150	80	70 / 1	350		320	256	222	171	166	140	
			140		130	105	90	70	73	57	
200	80		580		400	320	268	214	219	175	
			230		160	130	154	87	126	71	
200	100		690		500	450	356	302	274	222	
			270		200	100	181	120	148	98	
250	100		80 / 1	900		770	690	517	463	422	378
				360		310	280	241	188	197	153
				1100		1000	900	671	604	548	493
250	150			440		400	360	295	241	241	197
		1200			900	800	604	537	493	438	
300	100	480			360	320	322	214	263	175	
		1500			1300	1100	873	738	713	603	
		600			520	440	403	295	329	241	

LOW DB TRIM



ANTI-CAVITATION TRIM



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