KOSO PARCOL



1-6330 SERIES THECO AUTOMATED VALVES

THECO 1-6330 SERIES AUTOMATED ON-OFF VALVES

Compact and sturdy construction and reduced dimension make this valve suitable for on-off service in continuous or discontinuous low capacity processes for long and heavy operation almost without maintenance.

Two and three way models are identical, except for the bottom flange, which is anyhow interchangeable.

The piston design plug allows changing the valve action by simply turning plug and spring upside down. The seal ring mounted on the plug grants perfect sealing in closed position.

Limit switches provided with induction detectors may be installed as well at both travel ends. Plants for rubber vulcanizing, food industry, plastic molding, etc. are commonly automated by THECO valves.

TECHNICAL CHARACTERISTICS BODY

material: AISI 316

dimensions: DN $\frac{1}{2}$ ", $\frac{3}{4}$ ", 1", $\frac{1.1}{4}$ ", $\frac{1.1}{2}$ " connections: ANSI B2.1 - 500 psi series

threaded ANSI 300 - PN40 flanged

ratings: see p/T diagram

PACKING

Teflon "V" rings supplied with preloading spring.

PLUG

design: integral with the stem inserts: loaded TEFLON

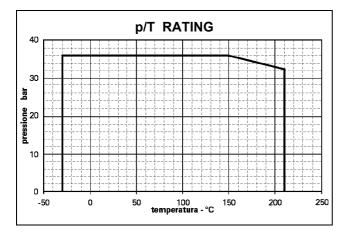
sealing: VI class as per IEC 60534-4

service: on-off

SEAT

construction: directly machined in the body or

bottom flange



ACTUATOR

pneumatic cylinder

spring range: 1 ÷ 1.5 bar

action: direct or reverse (changeable)

connection: 1/4" NPT

air supply:

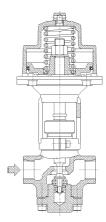
- nominal: 2.5 or 3.5 bar (see max allowable Δp table)
- max air supply to avoid internal parts damage: 5 bar
- pressure containing parts design: 11 bar

INSTALLATION

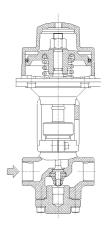
1-6330 series valves may be installed in any position.

The valve orientation is identified with regard to flow direction by suitable marks on the body corresponding to schematics shown in the present bulletin.

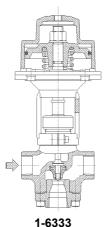
AVAILABLE MODELS



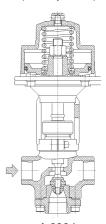
1-6331 two way – air to close (normally-open)



1-6332 two way – air to open (normally-closed)

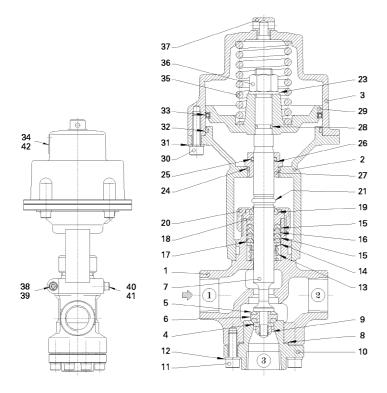


three way - air to open straight way (normally-closed straight way)



1-6334 three way – air to close straight way (normally-open straight way)

Fig. 1 – PART LIST



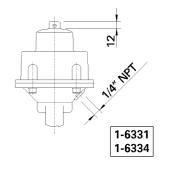
Item	Part name	Material
1	BODY	AISI 316
2	YOKE	SPHEROIDAL GRAPHITE CAST IRON
3	CYLINDER	SPHEROIDAL GRAPHITE CAST IRON
4	WASHER	AISI 316
5	SEALING SEAT RING	LOADED PTFE
6	SUPPORT	17-4-PH
7	STEM	HARDENED STAINLESS STEEL
8	GASKET	COPPER
9	ELASTIC STOP-NUT	AISI 304
10	BOTTOM FLANGE	AISI 316
11	SCREW	AISI 304
12	WASHER	AISI 304
13	SPRING	AISI 316
14	SPRING SEAT	LEADED BRASS
15	PACKING RING	PTFE
16	INTERMEDIATE RING	LOADED PTFE
17	PACKING END RING	LOADED PTFE
18	PACKING FOLLOWER	LEADED BRASS
19	SCRAPER	PTFE
20	CLAMPING NUT	CARBON STEEL
21	TRAVEL INDICATOR	SILICONE
23	STOP WASHER	AISI 304
24	O-RING	NBR 70
25	O-RING	NBR 70
26	BACK-UP	TEFLON
27	GUIDE	LEADED BRASS
28	O-RING	NBR 70
29	PISTON	ALUMINIUM
30	SCREW	AISI 304
31	WASHER	AISI 304
32	O-RING	NBR 70
33	SEAL RING	LOADED PTFE
34	RIVET	ALUMINIUM
35	SPRING	CARBON STEEL
36	NUT	AISI 304
37	PLUG	PVC
38	SCREW	AISI 304
39	WASHER	AISI 304
40	SCREW	AISI 304
41	WASHER	AISI 304
42	PLATE	AISI 304

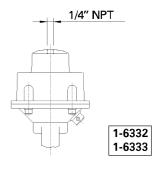
			Flow coefficients C _V					
DN	Ø SEAT	TRAVEL	2 way direct	2 way reverse	3 way			
inches	mm	mm	1 → 2	1 → 2	$2 \rightarrow 3$			
			2 → 1	2 → 1	$3 \rightarrow 2$			
1/2	16	12	6	6	7			
3/4	16	12	6	6	7			
1	19	15	8	8	9.5			
1.1⁄4	25	18	15	15	17			
1.1/2	.½ 32 22		24	24	27			
F∟ recovery factor			0.9	0.9	0.8			
Pressure diff	erential ratio factor condition x _T	or in limit flow	0.74	0.74	0.65			

MAX ALLOWABLE Δp - bar

	2 way				3 way									
		P2				1 – 2 open				2 – 3 open				
DN		N.	C.				N.	C.				N	.C.	
in.	P1	sup	supply		P1	supply		N.A.		supply		N.A.		
		0.5.5	0.51	N.A.		2.5	bar	3.5	bar			2.5 bar	3.5 bar	
		2.5 bar	3.5 bar			P2	P3	P2	P3	P2	P3	P2 P3	P2 P3	P2 P3
1/2	36	18	32	27	36	36	18	36	32	36	27	18	32	27
3/4	36	18	32	27	36	36	18	36	32	36	27	18	32	27
1	36	19	34	29	36	36	19	36	34	36	29	19	34	29
1.1/4	36	15	27	23	36	36	15	36	27	36	23	15	27	23
1.1/2	36	14	25	22	36	36	14	36	25	36	22	14	25	22

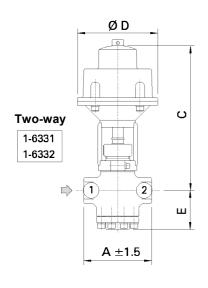
PNEUMATIC SUPPLY

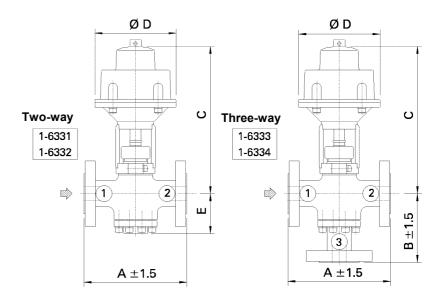


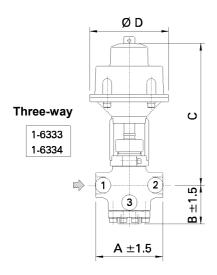


THREADED CONSTRUCTION NPTF ANSI 300

FLANGED CONSTRUCTION ANSI 300 and PN 40







way	commuta	ting valve		mixing valve	
number	normally open	normally closed	switching valve		
1	outlet	inlet	outlet	inlet	
2	tank	tank	inlet	outlet	
3	inlet	outlet	outlet	inlet	

NPS	1/2	3/4	1	1.1/4	1.1/2		
STROKE	12	12	15	18	22		
Ø CYLINDER	90	90	110	125	150		
THREADED	HREADED A				136	136	165
CONSTRUCTION (1) B	В		89	102	102	129
	IEC 534-3-1	Α	170	194	197	213	235
FLANGED	Tab. 1 (2)	В	112	119	144	155	169
CONSTRUCTION	IEC 534-3-1	Α	130	150	160	180	200
	Tab. 2	В	140	140	140	140	175
	206	206	251	283	340		
	D					163	195
E				57	70	84	102
MASS ko	THREADED CONSTRUCT	THREADED CONSTRUCTION			8	11	19
MASS kg	FLANGED	FLANGED CONSTRUCTION			11	16	24

- (1) INTERCHANGEABLE WITH VULCA N 1-6320
- (2) INTERCHANGEABLE WITH VULCA 1-6310

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