

4.11

FREE FLOW VALVES



VALVOIND Srl Via Pascoli, 5 - 24060 Bagnatica (Bergamo) Tel. 035.681919-Fax. 035.684461

Tilted valve, made entirely in AISI, with high coefficient of flow and elevated differential pressures; resistant to the corrosion and to the abrasion, as well as to high temperatures.

If is an ON/OFF valve the bolt is flat while if is a regulation valve the bolt is parabolic.

KM 100

THREADED OR FLANGED FREE FLOW VALVES with HANDWHEEL



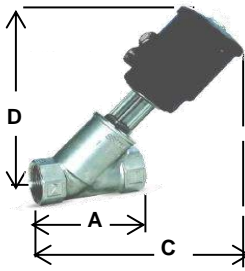
KM110..	Threaded	interception	Code	DN	A	C	E	L	Kv	PN
KM111..		Control	KM...04	1/2"	65	150	128	130	5,8	40
KM 120..	Flanged	interception	Code	DN	A	C	E	L	Kv	PN
KM 121..		Control	KM...05	3/4"	75	155	133	150	9,8	40
			KM...06	1"	90	172	145	160	18,6	40
			KM...07	1 1/4"	110	188	156	180	26,9	25
			KM...08	1 1/2"	120	193	161	200	42	25
			KM...09	2"	150	212	170	230	57	16

Body : AISI 316
Sealling : PTFE+graphite
working temp. : -10 + 190°C

KM 200

FREE FLOW VALVE - GAS THREADED - with pneumatic actuator- OFF - Simple effect - Normally Closed

ON-



Body : AISI 316
working temp. : -10°C ÷ 190°C
Application : water - steam
Sealling : PTFE+graphite
Connections : gas threaded

actuator	Code		
	Ø 50	Ø 70	Ø 100
Pneumatic in Nylon	KM231..	KM241..	KM251..
Pneumatic in AISI 316	KM301..	KM311..	KM321..

Code	Ø	Kv	A	C			D			WORKING PRESSURE (BAR)		
				Ø50	Ø70	Ø100	Ø50	Ø70	Ø100	Ø 50	Ø 70	Ø 100
KM..04	1/2"	5,8	65	130	130	-	166	192	-	18	35	-
KM..05	3/4"	9,8	75	150	150	-	171	197	-	14	25	-
KM..06	1"	19	90	160	160	-	180	206	-	9	20	34
KM..07	1 1/4"	27	110	-	180	180	-	214	275	-	13	22,5
KM..08	1 1/2"	42	120	-	200	200	-	219	280	-	8	20
KM..09	2"	57	150	-	230	230	-	228	290	-	5,5	14
KM..10	2 1/2"	99	175	-	-	290	-	-	300	-	2,7	6,5



FREE FLOW VALVE - UNI PN16 flanged- with pneumatic actuator- ON-OFF - Simple effect - Normally Closed

Body : AISI 316
working temp. : -10°C ÷ 190°C
Application : acqua-vapore
Sealling : PTFE+grafite

actuator	code		
	Ø 50	Ø 70	Ø 100
Pneumatic in Nylon	KM232..	KM242...	KM252...
Pneumatic in AISI 316	KM302..	KM312...	KM322...

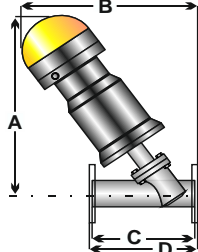
Codici	DN	Kv	A	C			D			WORKING PRESSURE (BAR)		
				Ø50	Ø70	Ø100	Ø50	Ø70	Ø100	Ø 50	Ø 70	Ø 100
KM..04	15	5,8	130	195	222	-	166	192	-	18	35	-
KM..05	20	9,8	150	202	229	-	171	197	-	14	25	-
KM..06	25	19	160	217	244	-	180	206	-	9	20	34
KM..07	32	27	180	-	257	318	-	214	275	-	13	22,5
KM..08	40	42	200	-	262	323	-	219	280	-	8	20
KM..09	50	57	230	-	280	331	-	228	290	-	5,5	14
KM..10	65	99	290	-	-	345	-	-	300	-	2,7	6,5

KM270

FREE FLOW VALVE - MADE IN AISI 316 - with PNEUMATIC ACTUATOR and ELECTROPNEUMATIC POSITIONER

Code	KM272..	treaded connection
Code	KM282..	flanged connection

top for control
actuator : Ø 100 mm
power supply : 24 Volt dc
Air supply : 5/8 bar
ambient temp.: -30°C + 190°C
protection degree : IP 67
Control Signal 4...20 mA / 0...10 V



cod.	..04	..05	..06	..07	..08	..09	..10
DN	15	20	25	32	40	50	65
Kv							
ΔP bar	20	20	20	18	11	7,5	10
a	270	270	270	280	285	305	370
b	290	290	295	310	320	350	430
c	146	146	156	176	196	226	290
d	150	150	160	180	200	230	290



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**MICROVALVES
FREE FLOW VALVE with ACTUATOR
BALANCED VALVE**

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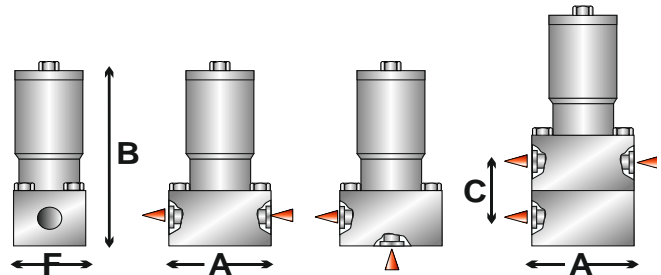
KM 200

MICROVALVES IN AISI 316 with 2 or 3 WAYS and PNEUMATIC ACTUATOR



ON-OFF - gas THREADED - Normally closed - PN40

ambient temp. : -10°C ÷ 170°C
 Body : AISI 316
 Actuator : AISI 316
 Application : acqua-vapore
 Selling : Graphite+PTFE



CODE	Type	kind
KM201..	PCMVF	2 straight ways
KM210..	PCMVS	2 angular square ways
KM220..	PCMVFT	3 angular square ways

Type	Code	DN	Ø	Dp(bar)	Kv	actuator	A	B	C	B	F	Kg
2 WAYS	KM...01	1/8"	13,6	12	0,77	25	46	99,5		99,5	30	0,6
	KM...02	1/4"	17,6	10	1,67	25	46	99,5		99,5	30	0,6
	KM...03	3/8"	17,6	7	2,34	25	46	99,5		99,5	30	0,6
3 WAYS	KM...01	1/8"	13,6	12	0,69	25	46	128,5	29	128,5	30	0,9
	KM...02	1/4"	17,6	10	1,55	25	46	128,5	29	128,5	30	0,9
	KM...03	3/8"	17,6	7	2,15	25	46	128,5	29	128,5	30	0,9

KM 400

FREE FLOW VALVE with ELECTRICAL ACTUATOR IP 55

Valve completely in AISI with Electrical spring return actuator
 Normally closed (available on request N.O.) and position Feedback

Power supply 24V dc ac

Control Signal Setting		
4..20 mA - 0..10V - 3point - On Off .		
Code	Connection	Function
KM401...	threaded	Control
KM402...	flanged	
KM405...	threaded	Intercepion
KM406...	flanged	



THREADED VALVE			W.press. BAR	Kv	FLANGED VALVE		
Cod.	Ø	A			Cod.	DN	A
..04	1/2"	65	16	5,8	..04	15	130
..05	3/4"	75	14	9,8	..05	20	150
..06	1"	90	10	18,6	..06	25	160
..07	1 1/4"	110	6	26,9	..07	32	180
..08	1 1/2"	120	5	42	..08	40	200
..09	2"	150	3	57	..09	50	230
..10	2 1/2"	177	1	98,5	..10	65	290

VA 320

THREADED BALANCED VALVE PN 25



Equal-percentage control characteristic
 piezometric and
 pressure connections complete
 Bronze body and Brass disc
 Soft sealling in PTFE
 Max pressure: 25 bar
 Max temperature : 130°C

Code	Ø	L	H	PRESE	Kg
VA32004	1/2"	90	90	1/4"	0,5
VA32005	3/4"	102	90	1/4"	0,6
VA32006	1"	110	90	1/4"	0,7
VA32007	1 1/4"	121	116	1/4"	1
VA32008	1 1/2"	142	116	1/4"	1,4
VA32009	2"	161	116	1/4"	1,9

VA 325

FLANGED BALANCED VALVE PN 16

Suitable to get the same pressure drops in various circuits.



Equal-percentage control characteristic
 pressure connections complete
 Cast Iron Body
 stainless steel Seat
 PTFE gasket

Max Pressure	Max Temperature
16 bar	120°C
14,4 bar	150°C

Code	DN	L	H	Kg	Kv
VA32510	65	290	300	21	97
VA32511	80	310	330	25	149
VA32512	100	350	335	35	235
VA32513	125	400	355	50	371
VA32514	150	480	405	73	500
VA32515	200	600	580	147	910
VA32516	250	730	655	215	1302
VA32517	300	850	640	280	1718