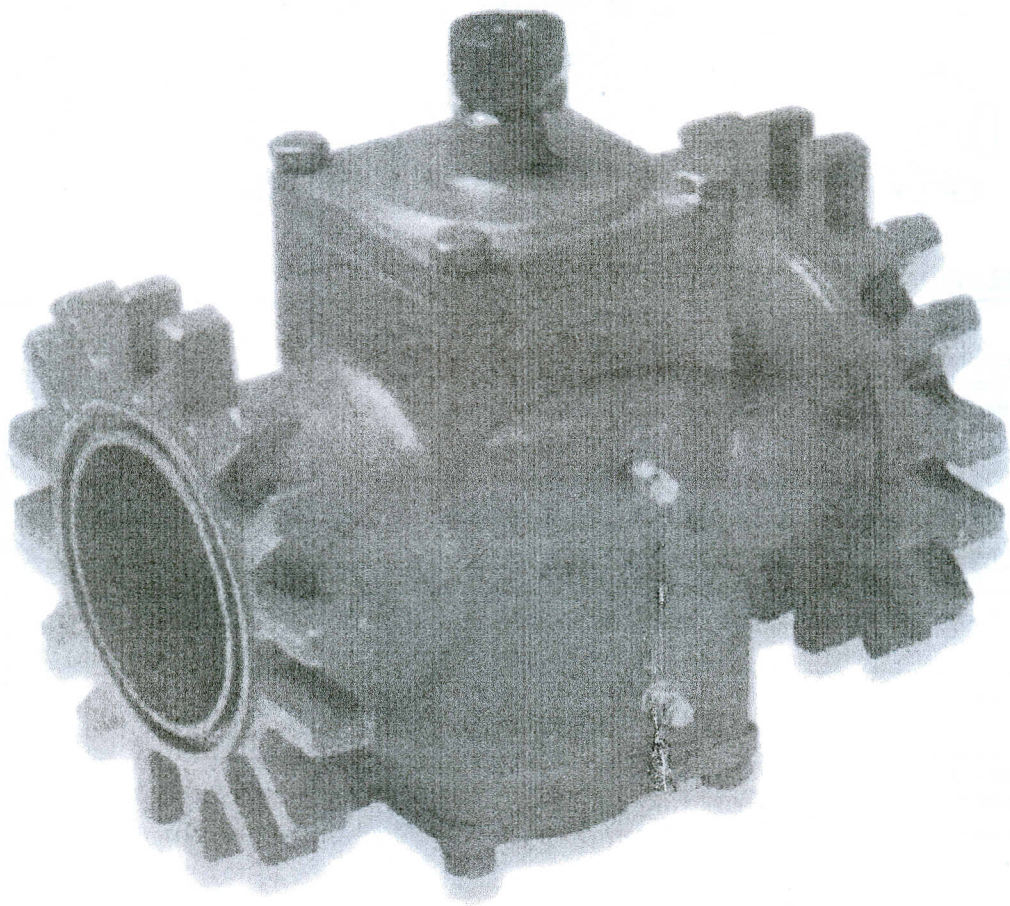


ATERM DI CICERI

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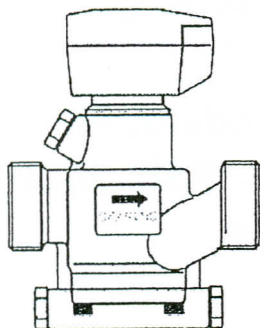
Sede amministrativa Via Pindaro, 40
20128 MILANO - Telefono e fax +39.02.26005155

SEDE OPERATIVA VIA RANZATO, 3 MILANO



SH

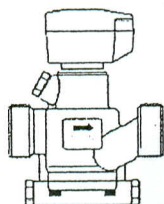
VALVOLA DI BILANCIAMENTO DINAMICO REGOLABILE



SPECIFICHE TECNICHE

Pressione/Temp. Rating: 2500 kPa, 360 psi
 Temperatura media: -20° to 120°C, -4° to 248°F
 Cartuccia: Polyoxymethylene
 Diaframma: Hydrogenated acrylonitrile-butadiene-rubber
 Corpo valvola: Forged brass CuZn39Pb2
 Raccordi: Bronze alloy ISO or NPT
 Guarnizioni: EPDM O-Rings
 Tappi: 1/4" NPT
 Campo di portata: 270 l/h – 6948 l/h

DIMENSIONI E PESI (NOMINALI)



Mod.	MODELLO N°	A	B	C	RACCORDI ¹			PESO (KG)
					ISO Femmina	ISO Maschio	US. SWT	
15mm	SH.1	108.0	89.9	58.9	22.4	25.4	22.4	1.8
20mm					22.4	25.4	28.7	
25mm					N/A	33.5	31.8	
25mm	SH.2	149.1	140.0	63.0	35.1	40.1	35.1	4.5
32mm					35.1	40.1	36.5	
40mm					35.1	41.2	N/A	

SELEZIONE DEL MODELLO SH

SH.

1

Corpo valvola modello :

1 = Raccordo 15,20,25mm, 1/2, 3/4, 1 1/2"

2 = Raccordo 25,32,40mm, 1, 1 1/4, 1 1/2"

0 = No p/t plugs required (standard)

B = p/t plugs

Inserimento raccordo di entrata e di uscita:

Modello	Filettatura maschio	Filettatura femmina	Sweat
Raccordi 15 - 25mm, 1/2 - 1"	E = 15mm = 1/2" F = 20mm = 3/4"	H = 15mm = 1/2" I = 20mm = 3/4" J = 25mm = 1"	K = 3/8", L = 1/2" M = 3/4", N = 1"
Raccordi 25 - 40mm, 1" - 1 1/2"	G = 25mm = 1" P = 32mm = 1 1/4" Q = 40mm = 1 1/2"	J = 25mm = 1" S = 32mm = 1 1/4" T = 40mm = 1 1/2"	N = 1" K = 1 1/4" W = 1 1/2"

Inserire tipo connessione:

Lasciare bianco se non si desiderano raccordi; invece N = NPT, I = ISO

Esempio : A-TERM SH.1.1.0.F.F.I = SH 15-25mm corpo, senza p/t plugs e con raccordi 20mm tipo ISO

ACCESSORI

- Isolamento DN15/20 and DN25/32
- Chiave di regolazione
- Tappi 1/4"

NOTE

¹ Aggiungere lunghezza raccordi alla lunghezza del corpo valvola.

ATERM DI CICERI

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Valvola di bilanciamento dinamico 15/40mm ATERM**SH****CAMPI DI PORTATA**

Model	Sezione		Campo di controllo		Regolazione massima		Regolazione minima	
	mm	pollici	KPaD	psid	l/h	GPM	l/h	GPM
ATERM SH.1	15	1/2"	33-300	4.8-44	2.484	11.0	270	1.20
	20	3/4"						
	25	1"						
ATERM SH.2	25	1"	33-300	4.8-44	6.948	30.5	1.044	4.60
	32	1 1/4"						
	40	1 1/2"						

SPECIFICHE GENERALI

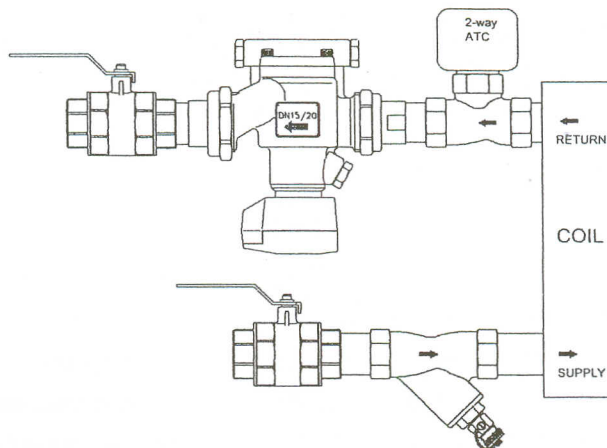
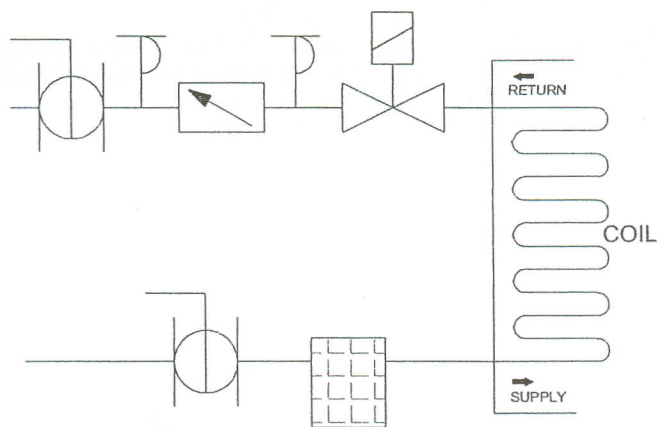
1. VALVOLE DI BILANCIAMENTO DINAMICO ATERM SH
 - 1.1. Le valvole di bilanciamento vengono installate come in progetto.
 - 1.2. Le valvole consistono in unità di limitazione dinamica, regolabile, del flusso.
 - 1.3. Le valvole sono regolabili quando già installate e con il sistema in funzione.
2. CORPO VALVOLA
 - 2.3. La valvola sarà regolabile esternamente tramite una apposita chiave, con la possibilità di 60 punti di regolazione dinamica del flusso.
 - 2.4. Un'etichetta di identificazione sarà disponibile su ogni valvola; verrà indicata la data di produzione, modello e campo di lavoro. L'etichetta sarà in alluminio e con dimensioni 50mm x 25mm

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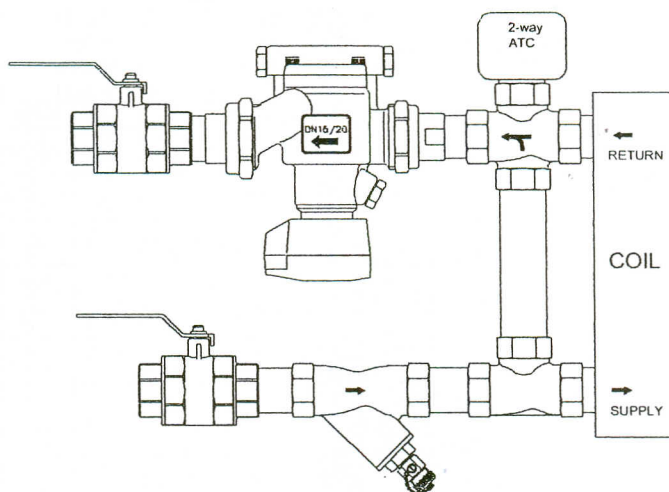
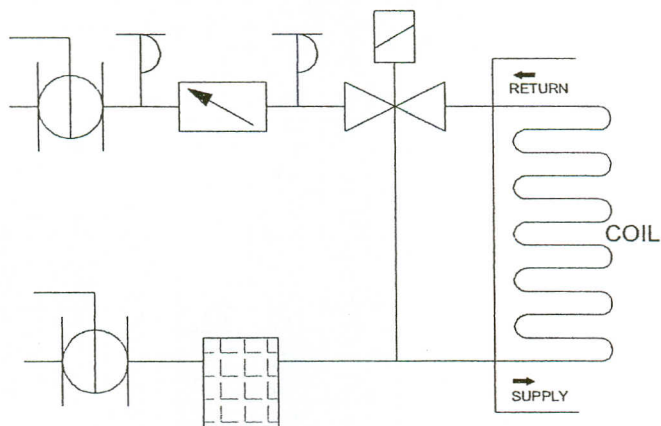
E-mail: atermdicieri@tiscali.it

ESEMPIO DI SISTEMA A DUE VIE**SCHEMA DI SISTEMA A DUE VIE****ATERM** DI CICERI

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E-mail: atermdiciceri@tiscali.it

ESEMPIO DI SISTEMA A TRE VIE**SCHEMA SISTEMA A TRE VIE****ATERM** DI CICERI

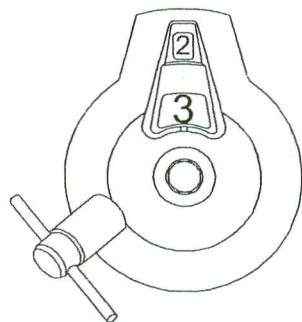
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REGOLAZIONE DELLA PORTATA

Usare la chiave speciale per settare la rotazione (Aterm n° ACC0001) esatta.



La regolazione illustrata a 2.3 corrisponde ad una portata di 0.28 l/s per la valvola del DN15/20/25 e ad una portata di 0.94 l/s per la valvola del DN25/32/40.

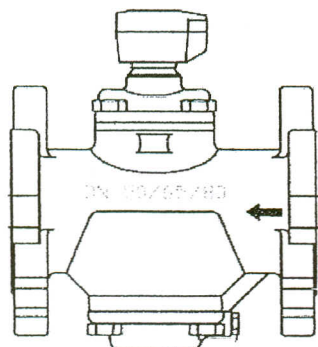
PORTATE						Micrometer Setting
DN15/20/25 1/2" - 1" 33 - 300kPaD 4.8 - 44psid			DN25/32/40 1" - 1 1/2" 33 - 300kPa 4.8 - 44psid			
L/s	L/hr	GPM	L/s	L/hr	GPM	
-	-	-	0.11	396	1.7	0.5
-	-	-	0.15	526	2.3	0.6
-	-	-	0.18	655	2.9	0.7
-	-	-	0.22	785	3.5	0.8
-	-	-	0.25	914	4.0	0.9
0.075	270	1.2	0.29	1044	4.6	1.0
0.090	324	1.4	0.34	1224	5.4	1.1
0.105	378	1.7	0.39	1404	6.2	1.2
0.120	432	1.9	0.44	1584	7.0	1.3
0.135	486	2.1	0.49	1764	7.8	1.4
0.15	540	2.4	0.54	1944	8.6	1.5
0.17	598	2.6	0.59	2124	9.4	1.6
0.18	655	2.9	0.64	2304	10.1	1.7
0.20	713	3.1	0.69	2484	10.9	1.8
0.21	770	3.4	0.74	2664	11.7	1.9
0.23	828	3.6	0.79	2844	12.5	2.0
0.25	886	3.9	0.84	3024	13.3	2.1
0.26	943	4.2	0.89	3204	14.1	2.2
0.28	1001	4.4	0.94	3384	14.9	2.3
0.29	1058	4.7	0.99	3564	15.7	2.4
0.31	1116	4.9	1.04	3744	16.5	2.5
0.32	1166	5.1	1.07	3852	17.0	2.6
0.34	1217	5.4	1.10	3960	17.4	2.7
0.35	1267	5.6	1.13	4068	17.9	2.8
0.37	1318	5.8	1.16	4176	18.4	2.9
0.38	1368	6.0	1.19	4284	18.9	3.0
0.39	1418	6.2	1.22	4392	19.3	3.1
0.41	1469	6.5	1.25	4500	19.8	3.2
0.42	1519	6.7	1.28	4608	20.3	3.3
0.44	1570	6.9	1.31	4716	20.8	3.4
0.45	1620	7.1	1.34	4824	21.2	3.5
0.46	1663	7.3	1.37	4932	21.7	3.6
0.47	1706	7.5	1.40	5040	22.2	3.7
0.49	1750	7.7	1.43	5148	22.7	3.8
0.50	1793	7.9	1.46	5256	23.1	3.9
0.51	1836	8.1	1.49	5364	23.6	4.0
0.52	1872	8.2	1.51	5443	24.0	4.1
0.53	1908	8.4	1.53	5522	24.3	4.2
0.54	1944	8.6	1.56	5602	24.7	4.3
0.55	1980	8.7	1.58	5681	25.0	4.4
0.56	2016	8.9	1.60	5760	25.4	4.5
0.57	2059	9.1	1.62	5846	25.7	4.6
0.58	2102	9.3	1.65	5933	26.1	4.7
0.60	2146	9.4	1.67	6019	26.5	4.8
0.61	2189	9.6	1.70	6106	26.9	4.9
0.62	2232	9.8	1.72	6192	27.3	5.0
0.63	2261	10.0	1.74	6271	27.6	5.1
0.64	2290	10.1	1.76	6350	28.0	5.2
0.64	2318	10.2	1.79	6430	28.3	5.3
0.65	2347	10.3	1.81	6509	28.7	5.4
0.66	2376	10.5	1.83	6588	29.0	5.5
0.67	2405	10.6	1.85	6674	29.4	5.6
0.68	2434	10.7	1.88	6761	29.8	5.7
0.68	2462	10.8	1.90	6847	30.1	5.8
0.69	2491	11.0	1.93	6934	30.5	5.9
0.70	2520	11.1	1.95	7020	30.9	6.0

ATERM DI CICERI

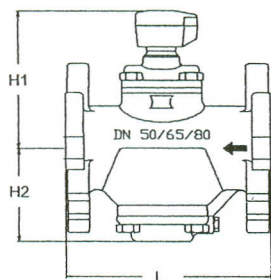
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DYNAMIC BALANCING VALVE DN50/150 ATERM**SH****ADJUSTABLE DYNAMIC SELF BALANCING VALVE****VALVE SPECIFICATIONS**

Static Pressure:	4000 kPa, 580 psi
Media Temperature:	-20° to 120°C, -4° to 248°F
Ambient Temperature:	-10° to 54°C, 14° to 131°F
Body Material:	Ductile Iron, ASTM A536-65T, Class 60-45-18
Internal Components:	316 Stainless Steel
Diaphragm:	EPDM
Test Ports:	1/4" ISO
Maximum Close Off Pressure:	700 kPaD, 101 psid
Maximum Operational ΔP:	400 kPaD, 58 psid

DIMENSIONS & WEIGHTS (NOMINAL)

Model	mm				Weight kg	Inches				Weight ¹ lbs
	Size	L	H1	H2		Size	L	H1	H2	
SH.3	50	224	152	95	11.2	2"	8.8"	6.0"	3.7"	24.8
	65					2 1/2"				
	80					3"				
SH.4	80	320	196	135	33	3"	12.6"	7.7"	5.3"	72
	100					4"				
SH.5	125	422	244	180	66	5"	16.6"	9.6"	7.1"	145
	150					6"				

FLOW RATES

Model	Size		Control Range		Maximum Setting		Minimum Setting	
	mm	Inch	kPaD	psid	l/s	gpm	l/s	gpm
SH.3.1	50	2"	35 - 400	5.1 - 58	7.06	112	2.46	39.0
	65	2 1/2"						
	80	3"						
SH.3.2	50	2"	80 - 400	11.6 - 58	9.82	155.6	3.5	55.5
	65	2 1/2"						
	80	3"						
SH.4.1	80	3"	35 - 400	5.1 - 58	9.25	147	3.45	55
	100	4"						
SH.4.2	80	3"	60 - 400	8.7 - 58	14	222	4.63	73.3
	100	4"						
SH.5.1	125	5"	35 - 400	5.1 - 58	23.4	370	6.52	103
	150	6"						
SH.5.2	125	5"	60 - 400	8.7 - 58	29.6	469	7.46	118
	150	6"						

ATERM DI CICERI

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DYNAMIC BALANCING VALVE DN50/150 ATERM SH

MODEL NUMBER SELECTION

SH

Insert valve body size : _____
3 = 50-80mm, 2"- 3", **4** = 80-100mm, 3"-4", **5** = 125-150mm, 5"-6"

Insert dP control range : _____
1 = 35 - 400kPaD, 5.1 - 58psid, **2** = 60/80 - 400kPaD, 8.7/11.6 - 58psid

Insert p/t plug requirements : _____
B = p/t plugs (standard)

Example : SH31B = SH 50-80mm body for 35-400kPaD with p/t plugs

GENERAL DESCRIPTION

The Aterm SH valve series are dynamic self balancing valves that are pressure independent.

The valve self adjusts for pressure differential and therefore eliminates the need for manual adjustment according to pressure differential after installation as is required with manual balancing valves.

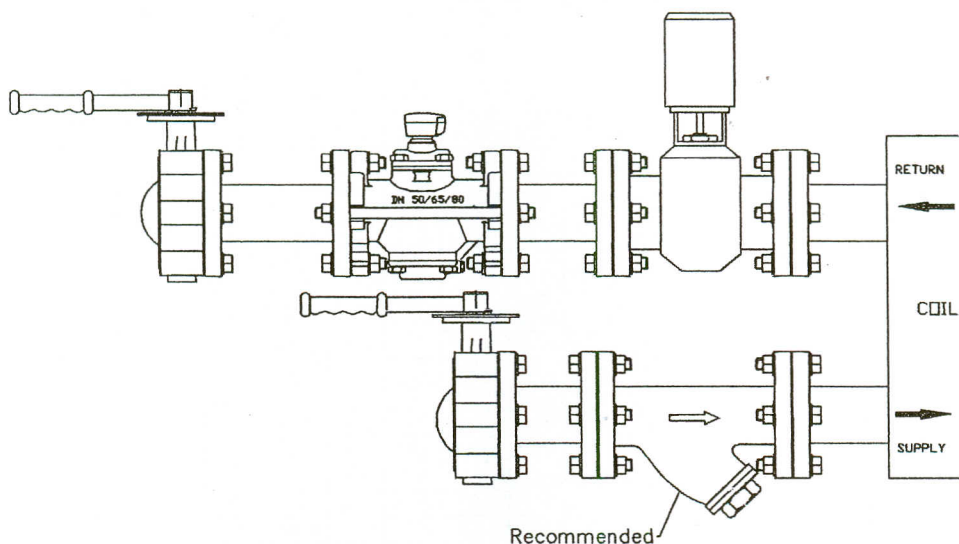
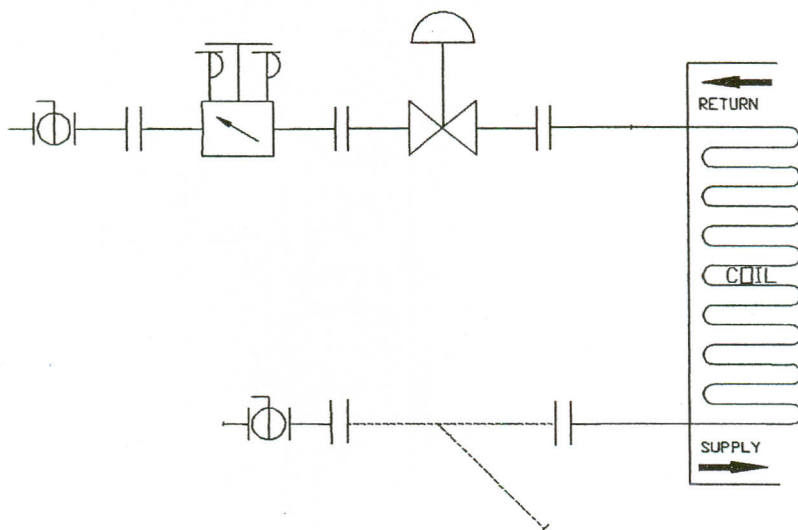
The valve self adjusts to prevent exceeding design flow setting even as system pressure differential fluctuates with operation while valve is within its pressure differential control range.

Each valve has 51 different flow settings.

The valve is wafer body design for installation between flanges.

GENERAL SPECIFICATIONS

1. DYNAMIC BALANCING VALVES **Aterm** SH
 - 1.1. Contractor shall install Dynamic Balancing Valves where indicated in drawings.
 - 1.2. Valve shall consist of dynamic, adjustable, flow limiting device.
2. VALVE HOUSING
 - 2.1. The housing shall be constructed of Ductile Iron ASTM A536-65T, Class 60-45-18 rated at no less than 4000 kPa (580 psi) static pressure and 120°C (248°F).
 - 2.2. Valve housing shall be for installation between flanges.
 - 2.3. Housing shall be configured for external flow regulation unit adjustment to 51 different flow rates.
 - 2.4. Identification tags shall be available for all valves; tags shall be indelibly marked with part number, production date and pressure differential range. Tags shall be of aluminum and in size 50mm x 25mm.
3. FLOW REGULATION UNIT
 - 3.1. Flow regulation unit shall consist of 316 stainless steel and EPDM rubber and shall be capable of controlling flow within +/- 5% of each rated flow.
 - 3.2. Flow regulation unit shall be accessible for maintenance.
 - 3.3. Optional dual pressure/temperature test plugs for verifying accuracy of flow performance shall be available for all valve sizes.

APPLICATION EXAMPLE**SCHEMATIC EXAMPLE****ATERM DI CICERI**

Via Pindaro, 40 - 20128 MILANO

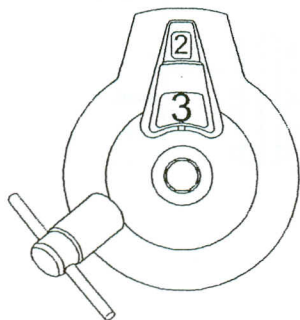
Telefono e fax +39.02.26005155

E-mail: atermdiciceri@tiscali.it

FLOW RATE SETTINGS

Valve size: DN50/65/80 2", 2 1/2", 3"

Use the special designed key
(Aterm part no. ACC0001) for
Micrometer setting



A Micrometer setting at 2.3 correspond
to a Flow Rate of 4.95 l/s for the valve
range 35 – 400 kPa.
And a Flow Rate at 6.55 l/s for the valve
range 80 – 400 kPa.

Flow Rate						Micrometer Setting
50 - 80mm, 2" - 3"						
35 - 400kPaD 5 - 58psid			80 - 400kPaD 11.6 - 58psid			
SH			SHX			
l/s	l/hr	GPM	l/s	l/hr	GPM	Rotations
2.46	8856	39.0	3.50	12600	55.5	1.0
2.73	9814	43.2	3.79	13651	60.1	1.1
2.99	10771	47.4	4.08	14702	64.7	1.2
3.26	11729	51.6	4.38	15754	69.4	1.3
3.52	12686	55.9	4.67	16805	74.0	1.4
3.79	13644	60.1	4.96	17856	78.6	1.5
3.95	14234	62.7	5.19	18691	82.3	1.6
4.12	14825	65.3	5.42	19526	86.0	1.7
4.28	15415	67.9	5.66	20362	89.6	1.8
4.45	16006	70.5	5.89	21197	93.3	1.9
4.61	16596	73.1	6.12	22032	97.0	2.0
4.72	16999	74.8	6.26	22543	99.3	2.1
4.83	17402	76.6	6.40	23054	101.5	2.2
4.95	17806	78.4	6.55	23566	103.8	2.3
5.06	18209	80.2	6.69	24077	106.0	2.4
5.17	18612	81.9	6.83	24588	108.3	2.5
5.26	18936	83.4	6.97	25092	110.5	2.6
5.35	19260	84.8	7.11	25596	112.7	2.7
5.44	19584	86.2	7.25	26100	114.9	2.8
5.53	19908	87.7	7.39	26604	117.1	2.9
5.62	20232	89.1	7.53	27108	119.4	3.0
5.68	20434	90.0	7.62	27432	120.8	3.1
5.73	20635	90.9	7.71	27756	122.2	3.2
5.79	20837	91.7	7.80	28080	123.6	3.3
5.84	21038	92.6	7.89	28404	125.1	3.4
5.90	21240	93.5	7.98	28728	126.5	3.5
5.96	21442	94.4	8.07	29059	127.9	3.6
6.01	21643	95.3	8.16	29390	129.4	3.7
6.07	21845	96.2	8.26	29722	130.9	3.8
6.12	22046	97.1	8.35	30053	132.3	3.9
6.18	22248	98.0	8.44	30384	133.8	4.0
6.22	22406	98.7	8.51	30640	134.9	4.1
6.27	22565	99.3	8.58	30895	136.0	4.2
6.31	22723	100.0	8.65	31151	137.2	4.3
6.36	22882	100.7	8.72	31406	138.3	4.4
6.40	23040	101.4	8.80	31662	139.4	4.5
6.44	23198	102.1	8.87	31918	140.5	4.6
6.49	23357	102.8	8.94	32173	141.7	4.7
6.53	23515	103.5	9.01	32429	142.8	4.8
6.58	23674	104.2	9.08	32684	143.9	4.9
6.62	23832	104.9	9.15	32940	145.0	5.0
6.66	23990	105.6	9.22	33181	146.1	5.1
6.71	24149	106.3	9.28	33422	147.1	5.2
6.75	24307	107.0	9.35	33664	148.2	5.3
6.80	24466	107.7	9.42	33905	149.3	5.4
6.84	24624	108.4	9.49	34146	150.3	5.5
6.88	24782	109.1	9.55	34387	151.4	5.6
6.93	24941	109.8	9.62	34628	152.5	5.7
6.97	25099	110.5	9.69	34870	153.5	5.8
7.02	25258	111.2	9.75	35111	154.6	5.9
7.06	25416	111.9	9.82	35352	155.6	6.0

ATERM DI CICERI

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DYNAMIC BALANCING VALVE

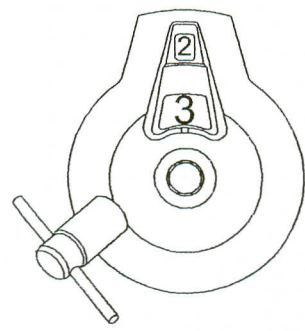
DN50/150

ATERM

SH

Valve size: DN80/100 3", 4"

Use the special designed key
(Aterm part no. ACC0001) for
Micrometer setting



A Micrometer setting at 2.3 correspond
to a Flow Rate of 7.28 l/s for the valve
range 35 – 400 kPa.
And a Flow Rate at 10.33 l/s for the valve
range 60 – 400 kPa.

Flow Rate						Micrometer Setting
80 - 100mm / 3" - 4"						
35 - 400kPaD 5 - 58psid			60 - 400kPaD 8.7 - 58psid			
SH			SHX			
l/s	l/hr	GPM	l/s	l/hr	GPM	Rotations
3.45	12420	54.7	4.63	16668	73.4	1.0
3.82	13738	60.5	5.17	18619	82.0	1.1
4.18	15055	66.3	5.71	20570	90.6	1.2
4.55	16373	72.1	6.26	22522	99.2	1.3
4.91	17690	77.9	6.80	24473	107.7	1.4
5.28	19008	83.7	7.34	26424	116.3	1.5
5.58	20074	88.4	7.76	27950	123.1	1.6
5.87	21139	93.1	8.19	29477	129.8	1.7
6.17	22205	97.8	8.61	31003	136.5	1.8
6.46	23270	102.5	9.04	32530	143.2	1.9
6.76	24336	107.1	9.46	34056	149.9	2.0
6.93	24962	109.9	9.75	35100	154.5	2.1
7.11	25589	112.7	10.04	36144	159.1	2.2
7.28	26215	115.4	10.33	37188	163.7	2.3
7.46	26842	118.2	10.62	38232	168.3	2.4
7.63	27468	120.9	10.91	39276	172.9	2.5
7.74	27878	122.7	11.10	39946	175.9	2.6
7.86	28289	124.5	11.28	40615	178.8	2.7
7.97	28699	126.4	11.47	41285	181.8	2.8
8.09	29110	128.2	11.65	41954	184.7	2.9
8.20	29520	130.0	11.84	42624	187.7	3.0
8.28	29804	131.2	11.97	43085	189.7	3.1
8.36	30089	132.5	12.10	43546	191.7	3.2
8.44	30373	133.7	12.22	44006	193.8	3.3
8.52	30658	135.0	12.35	44467	195.8	3.4
8.60	30942	136.2	12.48	44928	197.8	3.5
8.67	31226	137.5	12.61	45389	199.8	3.6
8.75	31511	138.7	12.74	45850	201.9	3.7
8.83	31795	140.0	12.86	46310	203.9	3.8
8.91	32080	141.2	12.99	46771	205.9	3.9
8.99	32364	142.5	13.12	47232	208.0	4.0
9.01	32443	142.8	13.20	47506	209.2	4.1
9.03	32522	143.2	13.27	47779	210.4	4.2
9.06	32602	143.5	13.35	48053	211.6	4.3
9.08	32681	143.9	13.42	48326	212.8	4.4
9.10	32760	144.2	13.50	48600	214.0	4.5
9.12	32839	144.6	13.58	48874	215.2	4.6
9.14	32918	144.9	13.65	49147	216.4	4.7
9.17	32998	145.3	13.73	49421	217.6	4.8
9.19	33077	145.6	13.80	49694	218.8	4.9
9.21	33156	146.0	13.88	49968	220.0	5.0
9.22	33178	146.1	13.89	50011	220.2	5.1
9.22	33199	146.2	13.90	50054	220.4	5.2
9.23	33221	146.3	13.92	50098	220.6	5.3
9.23	33242	146.4	13.93	50141	220.8	5.4
9.24	33264	146.5	13.94	50184	220.9	5.5
9.25	33286	146.5	13.95	50227	221.1	5.6
9.25	33307	146.6	13.96	50270	221.3	5.7
9.26	33329	146.7	13.98	50314	221.5	5.8
9.26	33350	146.8	13.99	50357	221.7	5.9
9.27	33372	146.9	14.00	50400	221.9	6.0

ATERM DI CICERI

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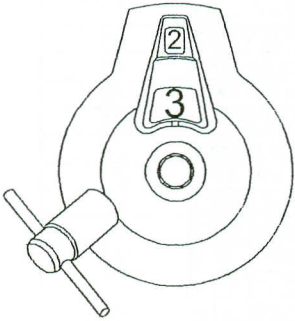
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E-mail: atermdiciceri@tiscali.it

DYNAMIC BALANCING VALVE DN50/150 ATERM**SH**

Valve size: DN125/150 5", 6"

Use the special designed key
(Aterm part no. ACC0001) for
Micrometer setting



A Micrometer setting at 2.3 correspond
to a Flow Rate of 14.8 l/s for the valve
range 35 – 400 kPa.
And a Flow Rate at 17.1 l/s for the valve
range 60 – 400 kPa.

FlowRate						Micrometer Setting
125 - 150mm/ 5" - 6"						
35 - 400kPaD 5 - 58psid			60 - 400kPaD 8.7 - 58psid			
SH			SHX			
l/s	l/hr	GPM	l/s	l/hr	GPM	Rotations
6.52	23472	103	7.46	26856	118	1.0
7.23	26021	115	8.26	29729	131	1.1
7.94	28570	126	9.06	32602	144	1.2
8.64	31118	137	9.85	35474	156	1.3
9.35	33667	148	10.7	38347	169	1.4
10.1	36216	159	11.5	41220	181	1.5
10.7	38527	170	12.2	43978	194	1.6
11.3	40838	180	13.0	46735	206	1.7
12.0	43150	190	13.7	49493	218	1.8
12.6	45461	200	14.5	52250	230	1.9
13.3	47772	210	15.3	55008	242	2.0
13.8	49615	218	15.9	57218	252	2.1
14.3	51458	227	16.5	59429	262	2.2
14.8	53302	235	17.1	61639	271	2.3
15.3	55145	243	17.7	63850	281	2.4
15.8	56988	251	18.4	66060	291	2.5
16.2	58392	257	19.0	68234	300	2.6
16.6	59796	263	19.6	70409	310	2.7
17.0	61200	269	20.2	72583	320	2.8
17.4	62604	276	20.8	74758	329	2.9
17.8	64008	282	21.4	76932	339	3.0
18.1	65268	287	21.7	78152	344	3.1
18.5	66528	293	22.0	79373	349	3.2
18.8	67788	298	22.4	80593	355	3.3
19.2	69048	304	22.7	81814	360	3.4
19.5	70308	310	23.1	83034	366	3.5
19.9	71568	315	23.4	84254	371	3.6
20.2	72828	321	23.7	85475	376	3.7
20.6	74088	326	24.1	86695	382	3.8
20.9	75348	332	24.4	87916	387	3.9
21.3	76608	337	24.8	89136	392	4.0
21.4	77112	340	25.0	90101	397	4.1
21.6	77616	342	25.3	91066	401	4.2
21.7	78120	344	25.6	92030	405	4.3
21.8	78624	346	25.8	92995	409	4.4
22.0	79128	348	26.1	93960	414	4.5
22.1	79632	351	26.4	94925	418	4.6
22.3	80136	353	26.6	95890	422	4.7
22.4	80640	355	26.9	96854	426	4.8
22.5	81144	357	27.2	97819	431	4.9
22.7	81648	359	27.4	98784	435	5.0
22.8	81900	361	27.7	99544	438	5.1
22.8	82152	362	27.9	100303	442	5.2
22.9	82404	363	28.1	101063	445	5.3
23.0	82656	364	28.3	101822	448	5.4
23.0	82908	365	28.5	102582	452	5.5
23.1	83160	366	28.7	103342	455	5.6
23.2	83412	367	28.9	104101	458	5.7
23.2	83664	368	29.1	104861	462	5.8
23.3	83916	369	29.3	105620	465	5.9
23.4	84168	371	29.6	106380	468	6.0

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