ANGLE SEAT BRASS BODY VALVE
VALVOLA A SEDE INCLINATA CORPO OTTONE

Fluid and steam control up to + 187° C
Controllo fluidi e vapore fino a + 187° C

Internal springs designed for high frequency drive up to 10 M cycles*
Molle interne progettate per alta frequenza di azionamento fino a 10 M di cicli *

Swiveling cylinder
Cilindro orientabile

No wrench needed for cylinder orientation
Cilindro orientabile senza uso di chiave inglese

Valve status indicator
Segnalatore stato valvola

Self-lubricated rod guide (seizure prevention)
Autolubrificazione guida stelo (prevenzione grippaggio)

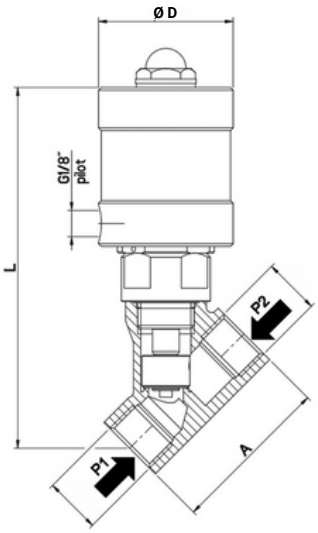
**Based on MAROS engineering's tests*
Test effettuati da MAROS engineering

Type / Tipo	Angle seat valve / Valvola a sede inclinata
Size / Misure	1/2" – 2" (PN16)
Pipe threads / Attacchi	F/F gas ISO228
Available versions/ Versioni disponibili	Normally Closed NC, Normally Open (NO) Double acting (DA) Normalmente Chiuso (NC) Normalmente Aperto (NA) Doppio Effetto (DE)
Flow type / Tipo di flusso	Bidirectional / Bidirezionale
Ambient temperature / Temperatura ambiente	-20°/+80°C
Pilot pressure / Pressione di lavoro	Min 4.0 bar – Max 8.0 bar
Valve body / Corpo valvola	Brass / Ottone
Swiveling cylinder / Cilindro orientabile	Yes / Si
Seal holder / Otturatore	Brass / Ottone
Piston / Pistone	Aluminium / Alluminio
Cylinder / Cilindro	Anodized aluminium / Alluminio anodizzato
Piston rod / Stelo	Aisi 304 stainless steel / Inox Aisi 304
Rod wiper / Raschiatore	Yes / Si
Rod gasket / Guarnizione stelo	Spring loaded V-Ring seal / Pacco V-Ring con molla di precarico
Shutter seal / Guarnizione otturatore	PTFE
Valve status signal / Segnalazione stato valvola	Visual indicator (NC only) / Indicatore visivo (solo NC)

UPON REQUEST / SU RICHIESTA

Atex Certification / Certificazione ATEX
Inductive sensor switch box / Switch-box a sensori induttivi
Valve body nickel-plating (Niploy Process) / Nichelatura chimica del corpo valvola (Processo Niploy)
Cylinder Nickel-plating (Niploy Process) / Nichelatura chimica del cilindro (Processo Niploy)
Seal holder Nickel-plating (Niploy Process) / Nichelatura chimica dell'otturatore (processo Niploy)
FKM or EPDM shutter seal / Guarnizione otturatore in FKM o EPDM

STEAM AND HIGH TEMPERATURE / VAPORE E ALTE TEMPERATURE



ΔP = P1-P2

SRT - NC Closing against flow / SRT- NC Ingresso fluido sotto otturatore								
Code Codice	Gas pipe thread Filett. gas G"	DN	A [mm]	L max [mm]	Ø D [mm]	Ø cylinder cilindro [mm]	Δp Max [bar]	Kv (*) [m³/h]
T1012001	1/2"	15	56	132	50	40	<16.0	3.6
T1012011	1/2"	15	56	152	60	50	<16.0	3.8
T1034001	3/4"	20	67		50	40		
T1034011	3/4"	20	67	163	60	50	<16.0	6.5
T1034021	3/4"	20	67	179	70	60	<16.0	6.5
T1100011	1"	25	78	168	60	50	8.5	11.3
T1100021	1"	25	78	184	70	60	<16.0	10.6
T1100031	1"	25	78	199	94	80	<16.0	11.6
T1114021	1"1/4	32	100	202	70	60	7.7	19.7
T1114031	1"1/4	32	100	217	94	80	<16.0	19.7
T1114041	1"1/4	32	100	249	129	110	<16.0	21.0
T1112031	1"1/2	40	110	226	94	80	10.4	33.4
T1112041	1"1/2	40	110	262	129	110	<16.0	34.5
T1200031	2"	50	124	241	94	80	6.0	58.7
T1200041	2"	50	124	276	129	110	11.5	62.5

**The flow coefficient KV represents the volume flow rate of water passing through the valve under the following conditions:*
Il coefficiente di portata KV rappresenta la portata in volume di acqua che passa attraverso la valvola alle condizioni seguenti:
ΔP = 1 [bar]; T = 5÷40 [°C]; density/densità = 1000 [kg/m³]

Chiave di ordinazione / Ordering Key				
T = Modello valvola / Valve Model				
Attuatore Actuator	Dimensione Tubo Pipe Size BSP	Trattamento superficiale Surface treatment	Alesaggio Cylinder bore	Guarnizione otturatore Shutter seal
	012 – g 1/2"			0 – FKM
1 – NC /NC	034 – g 3/4"	0 – Ossidazione anodica Anodized oxidation	0 – Ø40	
	100 – g 1"		1 – Ø50	1 – PTFE
2 – NA /NO	114 – g 1"1/4		2 – Ø60	
	112 – g 1"1/2	1 – Nichelatura chimica Nickel surface	3 – Ø80	2 - EPDM
3 – DE /DA	200 – g 2"		4 – Ø110	

Esempio : T3100121 - Valvola modello SRT, Attuatore DE, 1", Nichelatura chimica superficiale, Cilindro alesaggio 60, Guarnizione PTFE
Exemple: T3100121 - Model Valve SRT, DA Actuator, 1" BSP, Nickel surface treatment, Cylinder Bore 60, Gasket PTFE

STEAM AND HIGH TEMPERATURE / VAPORE E ALTE TEMPERATURE

SRT - NC Closing with flow / SRT - NC Ingresso fluido sopra otturatore **							
				ΔP [bar]			
Code Codice	Gas pipe thread Filett. (gas) G"	DN	Ø cilindro Ø cylinder [mm]	1	5	10	16
				Press. Pilota Minima [bar] / Min Pilot Pressure [bar]			
T1012001	1/2"	15	40	2.4	2.5	3.2	3.4
T1012011	1/2"	15	50	2.9	3.0	3.2	3.5
T1034011	3/4"	20	50	2.9	3.1	3.6	4.3
T1034021	3/4"	20	60	3.5	3.7	4.0	4.4
T1100011	1"	25	50	2.8	3.0	3.8	4.6
T1100021	1"	25	60	3.6	3.8	4.3	5.1
T1100031	1"	25	80	3.5	3.9	3.9	4.3
T1114021	1"1/4	32	60	3.1	3.4	4.3	5.5
T1114031	1"1/4	32	80	3.3	3.7	4.3	5.0
T1114041	1"1/4	32	110	3.2	3.3	3.5	3.9
T1112031	1"1/2	40	80	3.0	3.2	4.0	5.0
T1112041	1"1/2	40	110	2.9	3.0	3.4	3.9
T1200031	2"	50	80	3.2	3.7	5.0	7.0
T1200041	2"	50	110	2.9	3.1	3.8	4.9

*** Water hammer risk with not-compressible fluids / Rischio colpo d'ariete con fluidi non comprimibili.*

SRT- NO Closing against flow / SRT - NA Ingresso fluido sotto otturatore									
				Pilot Pressure /Pressione Pilota [bar]					
Code Codice	Gas pipe thread Filett. (gas) G"	DN	Ø cylinder cilindro [mm]	4.0	5.0	5.5	6.0	7.0	8.0
				ΔP Max [bar]					
T2012001	1/2"	15	40	<16.0	<16.0	<16.0	<16.0	<16.0	<16.0
T2012011	1/2"	15	50	<16.0	<16.0	<16.0	<16.0	<16.0	<16.0
T2034011	3/4"	20	50	15.5	<16.0	<16.0	<16.0	<16.0	<16.0
T2034021	3/4"	20	60	<16.0	<16.0	<16.0	<16.0	<16.0	<16.0
T2100011	1"	25	50	5.3	7.0	9.8	12.5	<16.0	<16.0
T2100021	1"	25	60	<16.0	<16.0	<16.0	<16.0	<16.0	<16.0
T2100031	1"	25	80	<16.0	<16.0	<16.0	<16.0	<16.0	<16.0
T2114021	1"1/4	32	60	8.9	12.1	13.7	15.3	<16.0	<16.0
T2114031	1"1/4	32	80	<16.0	<16.0	<16.0	<16.0	<16.0	<16.0
T2114041	1"1/4	32	110	<16.0	<16.0	<16.0	<16.0	<16.0	<16.0
T2112031	1"1/2	40	80	11.7	15.7	<16.0	<16.0	<16.0	<16.0
T2112041	1"1/2	40	110	<16.0	<16.0	<16.0	<16.0	<16.0	<16.0
T2200031	2"	50	80	6.3	8.5	9.6	10.7	13.0	15.2
T2200041	2"	50	110	13.7	<16.0	<16.0	<16.0	<16.0	<16.0

SRT - DA Closing against flow / SRT - DE Ingresso fluido sotto otturatore									
				Pilot Pressure / Pressione Pilota [bar]					
Code Codice	Gas pipe thread Filett. gas G"	DN	Ø cylinder cilindro [mm]	4.0	5.0	5.5	6.0	7.0	8.0
				ΔP Max [bar]					
T3012001	1/2"	15	40	<16.0	<16.0	<16.0	<16.0	<16.0	<16.0
T3012011	1/2"	15	50	<16.0	<16.0	<16.0	<16.0	<16.0	<16.0
T3034011	3/4"	20	50	<16.0	<16.0	<16.0	<16.0	<16.0	<16.0
T3034021	3/4"	20	60	<16.0	<16.0	<16.0	<16.0	<16.0	<16.0
T3100011	1"	25	50	15.1	<16.0	<16.0	<16.0	<16.0	<16.0
T3100021	1"	25	60	<16.0	<16.0	<16.0	<16.0	<16.0	<16.0
T3100031	1"	25	80	<16.0	<16.0	<16.0	<16.0	<16.0	<16.0
T3114021	1"1/4	32	60	12.8	<16.0	<16.0	<16.0	<16.0	<16.0
T3114031	1"1/4	32	80	<16.0	<16.0	<16.0	<16.0	<16.0	<16.0
T3114041	1"1/4	32	110	<16.0	<16.0	<16.0	<16.0	<16.0	<16.0
T3112031	1"1/2	40	80	15.8	<16.0	<16.0	<16.0	<16.0	<16.0
T3112041	1"1/2	40	110	<16.0	<16.0	<16.0	<16.0	<16.0	<16.0
T3200031	2"	50	80	9.0	11.0	12.0	13.5	<16.0	<16.0
T3200041	2"	50	110	<16.0	<16.0	<16.0	<16.0	<16.0	<16.0

SRT - DA Closing with flow / SRT - DE Ingresso fluido sopra otturatore **									
				ΔP [bar]					
Code Codice	Gas pipe thread Filett. gas G"	DN	Ø cylinder cilindro [mm]	1	2	5	10	13	16
				Minimum Pilot Pressure / Pressione Pilota Minima [bar]					
T3012001	1/2"	15	40	>2	>2	>2	>2	>2	>2
T3012011	1/2"	15	50	>2	>2	>2	>2	>2	>2
T3034011	3/4"	20	50	>2	>2	>2	>2	2.1	2.6
T3034021	3/4"	20	60	>2	>2	>2	>2	>2	>2
T3100011	1"	25	50	>2	>2	>2	2.6	3.4	4.2
T3100021	1"	25	60	>2	>2	>2	>2	2.4	2.9
T3100031	1"	25	80	>2	>2	>2	>2	>2	>2
T3114021	1"1/4	32	60	>2	>2	>2	3.1	4.0	4.9
T3114031	1"1/4	32	80	>2	>2	>2	>2	2.2	2.7
T3114041	1"1/4	32	110	>2	>2	>2	>2	>2	>2
T3112031	1"1/2	40	80	>2	>2	>2	2.5	3.2	3.9
T3112041	1"1/2	40	110	>2	>2	>2	>2	>2	2.1
T3200031	2"	50	80	>2	>2	2.2	4.4	5.6	7.0
T3200041	2"	50	110	>2	>2	>2	2.3	3.0	3.7

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