



Carbon Steel Pneumatically Actuated Steam Ball Valve.

- Fully Encapsulated Body
- 1/2" to 2"
- TFM 4215 High Temperature Seats
- Carbon Steel Body – Part BV8806
- Various End Connections
- Double Acting and Single acting
- 200°C at 13 Bar Maximum
- Fully Maintainable
- ATEX Approved



Description

A 3 piece fully maintainable ball valve, Perfectly suited for on/off steam isolation. Fitted to a powerful Pneumatic Actuator, spring close/open or double acting. An extended bracket is fitted between the valve and actuator to dissipate the heat from the process. A 30% safety factor is included when sizing, offering reliable and safe operation.



Beschreibung

Ein 3-teiliger, vollständig wartbarer Kugelhahn, der sich perfekt für die Dampfisolierung eignet. Ausgestattet mit einem leistungsstarken pneumatischen Antrieb, mit Federschließen / Öffnen oder doppelwirkend. Eine verlängerte Halterung ist zwischen dem Ventil und dem Stellantrieb angebracht, um die Wärme aus dem Prozess abzuleiten. Bei der Dimensionierung wird ein Sicherheitsfaktor von 30% berücksichtigt, der einen zuverlässigen und sicheren Betrieb gewährleistet.



Descripción

Una válvula de bola de 3 piezas totalmente mantenible, Perfectamente adecuada para el aislamiento de vapor con./desc. Montado en un potente actuador neumático, resorte cerrado / abierto o doble efecto. Se instala un soporte extendido entre la válvula y el actuador para disipar el calor del proceso. Se incluye un factor de seguridad del 30% al dimensionar, lo que ofrece un funcionamiento confiable y seguro.



Description

Une vanne à boisseau sphérique entièrement mantenible en 3 pièces, parfaitement adaptée à l'isolation de vapeur par tout ou rien Adapté à un puissant actionneur pneumatique, ressort à ouverture / fermeture ou double effet. Un support prolongé est monté entre la vanne et l'actionneur pour dissiper la chaleur du processus. Un facteur de sécurité de 30% est inclus lors du dimensionnement, offrant un fonctionnement fiable et sûr.

Description

Designed specifically for isolation on steam lines up to 200°C at 13 Bar Max. This fully encapsulated heavy duty ball valve and pneumatic actuator is the perfect combination in meeting today's industry standards. Comprising of a three piece Carbon Steel fully maintainable ball valve, with TFM 4215 Sealing. The valve offers a high cycle life and has self-adjusting packing glands. The valve has a mounting pad that fits directly onto an extended heat dissipating bracket, because of the temperatures involved and is driven by either a single or double acting pneumatic actuator. Universal mounting platforms are offered as standard for position feedback, pilot solenoids and gearbox override. Various End Connections include BSP, NPT, Socket and Butt Weld.

Design Advantages

Heavy Duty Body ANSI B16.34

TFM4215 Seals as Standard

ATEX Approved

Blow - out proof stem

Prevents stem blowing out for maximum safety.

Easy in line maintenance

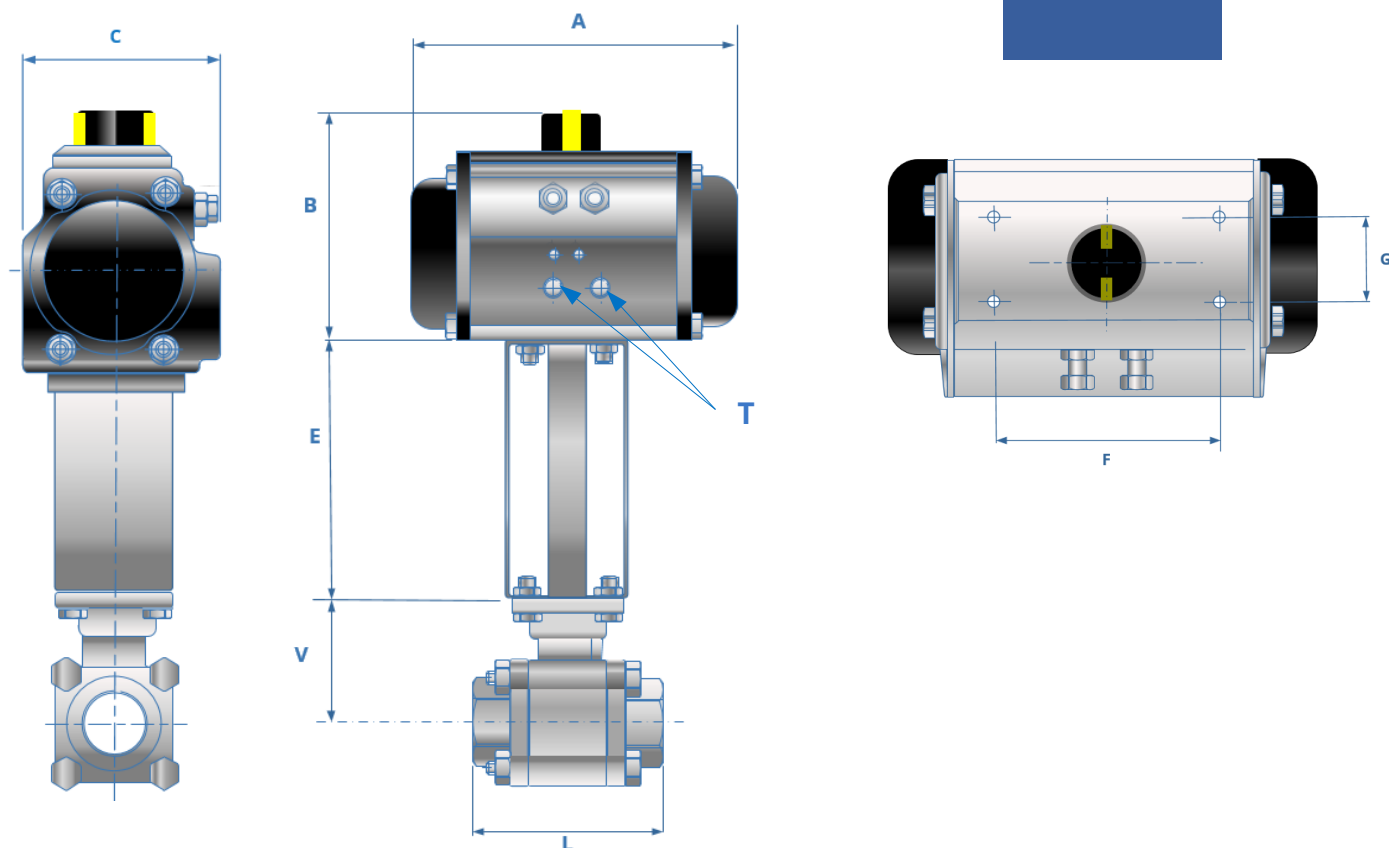
3 piece body swing out design, allowing easy maintenance.

Repair Kits Readily Available

Normally Closed by Spring – NC

Normally Open by Spring – NO

Double Acting – Air to Open and Close



Spring Open / or Close - Dimensions mm

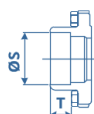
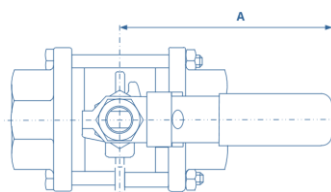
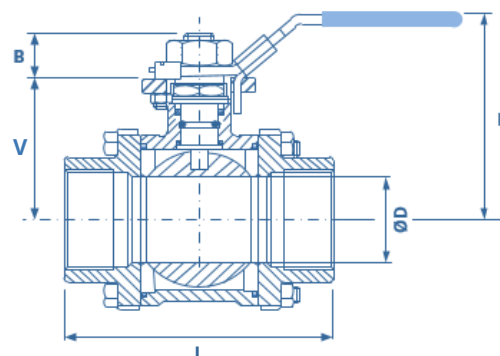
Port Connection	Actuator Type	L	ØD	V	A	B	C	F	G	T	E	Weight kg	KV m³/h
Size	Model												
1/2"	HP66S	70	15	48	202	107	85	80	30	1/8"	100	3.5	19
3/4"	HP75S	92	20	53	210	124	96	80	30	1/8"	100	5	46
1"	HP75S	105	25	59	210	124	96	80	30	1/8"	100	5.5	72
1 1/4"	HP88S	111	32	62	247	136	108	80	30	1/8"	100	6	105
1 1/2"	HP115S	124	40	70	316	166	141	80	30	1/4"	100	10	170
2"	HP125S	150	50	90	347	179	151	80	30	1/4"	100	16	275

Double Acting - Dimensions mm

Port Connection	Actuator Type	L	ØD	V	A	B	C	F	G	T	E	Weight kg	KV m³/h
Size	Model												
1/2"	HP63D	70	15	48	202	87	85	80	30	1/8"	100	2.7	19
3/4"	HP63D	92	20	53	210	104	96	80	30	1/8"	100	2.7	46
1"	HP63D	105	25	59	210	104	96	80	30	1/8"	100	4.6	72
1 1/4"	HP66D	111	32	62	247	116	108	80	30	1/8"	100	5.8	105
1 1/2"	HP88D	124	40	70	268	128	123	8	30	1/8"	100	8.8	170
2"	HP100D	150	50	90	347	159	141	80	30	1/4"	100	12	275

Actuator and Valve Details

Valve	3-Piece Fully Maintainable
Body	Carbon Steel
Ball	Stainless Steel 1.4408
Seat	PTFE, TFM1600, TFM4215
Temperature	180°C-220°C (see chart)
Pressure	2000 psi / PN138
Sizes	1/2" to 2"
Actuator	
Control Function	Normally Closed (NC) Normally Open (NO) Double Acting (DA)
Pilot Pressure	6 - 8 Bar
Pilot Port	G1/8" - G1/4"
Pilot Medium	Compressed Air, filtered, oiled or dry
Body material	Aluminium

Socket
weld

Dimensions

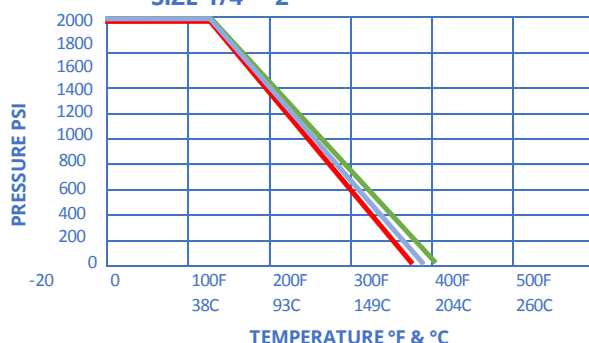
Size	A	B	C	L	S	T	Weight kg
1/2"	122	49	15	75	15	12.7	0.48
3/4"	142	55	20	80	20	14.3	0.84
1"	164	71	25	90	25	15.9	1.1
1 1/4"	164	76	32	110	32	17.5	1.78
1 1/2"	212	83	38	120	40	19.1	2.54
2"	212	94	50	140	50	22.2	4.12

Specification

Pressure range	1/2" to 2" 2000 PSI
Size	Full Bore 1/2" to 2"
Temperature range	PTFE 180°C / TFM 1600 185°C 200°C TFM 4215
Movement	90°
Cycle life	1,000,000 operations
Diameter Class	Full Port Schedule 40 Pipe
Packing Gland	Self Adjusting TFM
End Connections	BSPP, Socket Weld, Butt Weld

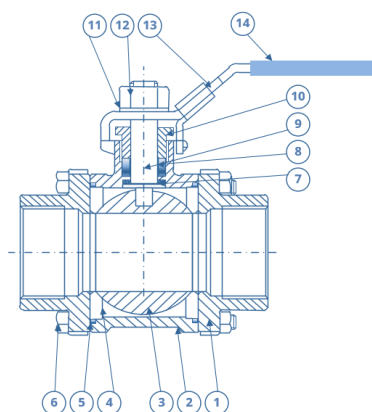
Pressure - Temperature Limits

SIZE 1/4" - 2"

TFM
1600TFM
4215

PTFE

TYPE BV8806



Material List

NO.	Parts	Materials	QTY
1	End Cap	WCB	2
2	Body	WCB	1
3	Ball	SS316	1
4	Seat	PTFE	2
5	Gasket	TFM	2
6	Bolts	SUS304	4
7	Thrust Washer	TFM	1
8	Stem Packing	TFM	1
9	Stem	SUS316	1
10	Gland	SUS304	1
11	Spring Washer	SUS304	1
12	Stem Nut	SUS304	1
13	Handle	SUS304	1
14	Handle Cover	PLASTIC	1

**Firesafe and Antistatic to API - 6th Edition
and Certified
ATEX Approved**

All information is sourced from our manufacturer's data and is intended for guidance only - ValvesOnline can accept no liability for changes, omissions or errors.

Repair Kits

Size	TFM4215	TFM1600
1/2"	RK8807-920673	RK8807-920664
3/4"	RK8807-920674	RK8807-920665
1"	RK8807-920675	RK8807-920666
1 1/4"	RK8807-920676	RK8807-920667
1 1/2"	RK8807-920677	RK8807-920668
2"	RK8807-920678	RK8807-920669



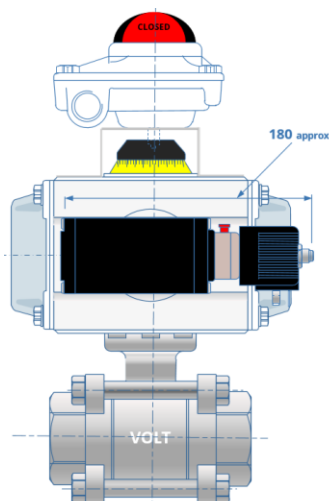
TFM 1600



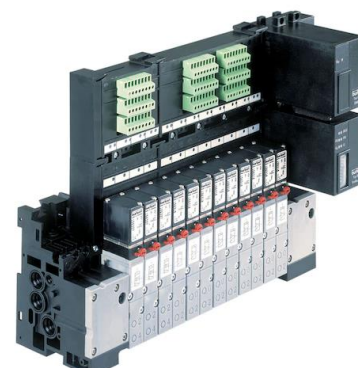
TFM 4215

Pilot Solenoid
Ordering Chart

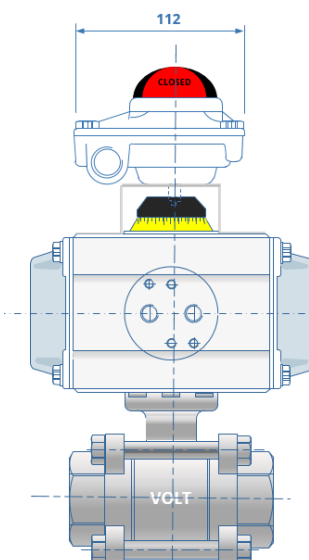
Voltage	Part Number
24 VDC	AP9000-900001
24 VAC	AP9000-900002
110 VAC	AP9000-900003
230 VAC	AP9000-900004



For multi-valve systems ask about our manifolded pilot valves and valve-islands

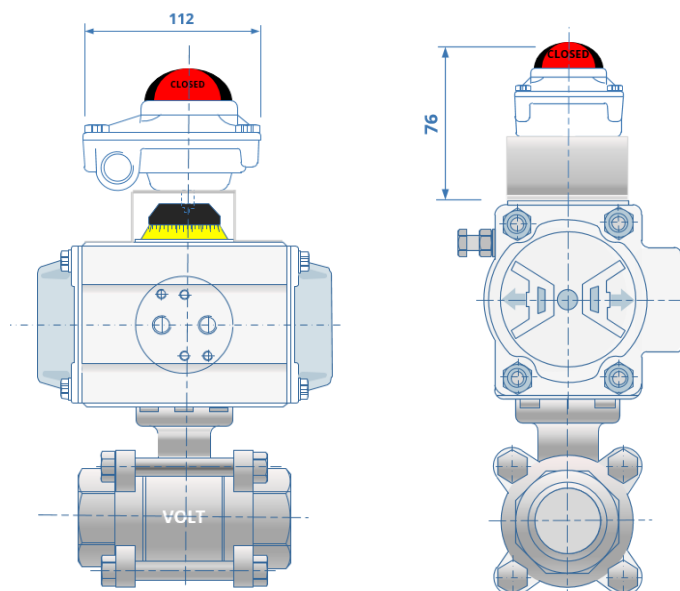
Switch Box
Ordering Chart

Voltage	Part Number
24 VDC	APL210
24 VAC	APL210
110 VAC	APL210
230 VAC	APL210



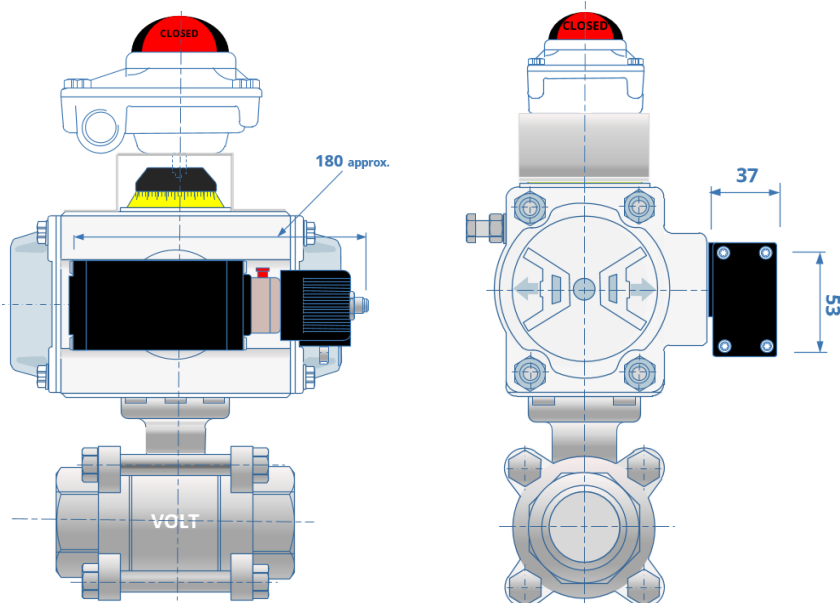
Combination of fieldbus, pilot valves and I/O modules

TYPE APL

**APL 2 Standard Switchbox**

Offering a reliable Optical and Electrical indication of the valve position at all times. Fitted with 2 x SPDT Limit Switches, offering IP67 protection, Beacon Indicator with choice of alternative colours and 2 x M20 cable entries.

Options:- include Proximity Sensors, Stainless Steel Housing, ATEX Exd or Exia Versions.

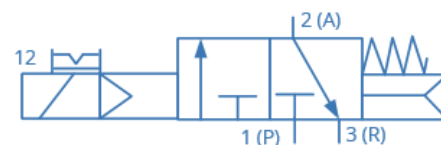
**Namur Pilot Solenoid Valve**

Sized to operate at 6 Bar, IP65 with Cable Plug, Seals NBR and Ports 1/4" BSP Brass.
Voltages 24VDC
24/ 110 / 230 V/ 50-60 Hz

TYPE AP9000

C Function 3/2

Usually used on Spring Return, Normally Closed with manual override, G1/4"Port, Supplied with cable Plug.

**H Function 5/2**

Usually used on Double Acting, manual override, G1/4"Port, Supplied with cable Plug.

