



Description

A serious valve for serious applications. 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 meeting today's industry standards. Comprising of a three piece Carbon or Steel ball valve, having an investment cast body with TFM 4215 Sealing. The valve offers a high cycle life and has self-adjusting packing glands. The valve fits directly onto a powerful pneumatic actuator, via a mounting pad ISO 5211 and heat dissipating bracket. Offered in both single and double acting functions with the addition of universal mounting platforms for position feedback, pilot solenoids and gearbox override. Various End Connections:- BSP, Socket, Butt Weld.

Design Advantages

Heavy Duty Body ANSI B16.34

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

Firesafe and Antistatic to API - 6th Edition and Certified

STOCKED PRODUCT

Heavy Duty Pneumatically Actuated Steam Ball Valve.

- Fully Encapsulated Body
- 1/2" to 2"
- TFM 4215 High Temperature Seats
- Carbon or Stainless steel Body
- Various End Connections
- Double Acting and Single acting
- 200°C at 13 Bar Maximum
- Fully Maintainable
- Available Online



Description

A combination of a 3 piece fully maintainable ball valve, fitted to a powerful Pneumatic spring close/open or double acting actuator. Perfectly suited for on/off steam isolation at temperatures up to 200°C at 13 Bar. A 30% safety factor is included when sizing, offering reliable and safe operation.

Firesafe and Antistatic to API - 6th Edition and Certified



Beschreibung

Eine Kombination aus einem 3-teiligen vollständig wartbaren Kugelventil, das an einem leistungsstarken pneumatischen Feder-Schließer / Öffner- oder doppelwirkenden Betätiger angebracht ist. Perfekt geeignet für die On / Off-Dampfisolierung bei Temperaturen bis zu 200 ° C bei 13 Bar. Bei der Dimensionierung ist ein Sicherheitsfaktor von 30% enthalten, der einen zuverlässigen und sicheren Betrieb ermöglicht.

Firesafe und Antistatik nach API - 6. Ausgabe und zertifiziert



Descripción

Una combinación de una válvula de bola completamente mantenible de 3 piezas, instalada en un potente actuador neumático de cierre / apertura o doble efecto. Perfectamente adecuado para el aislamiento con o sin conexión de vapor a temperaturas de hasta 200 ° C a 13 Bar. Se incluye un factor de seguridad del 30% cuando se dimensiona, ofreciendo un funcionamiento confiable y seguro.

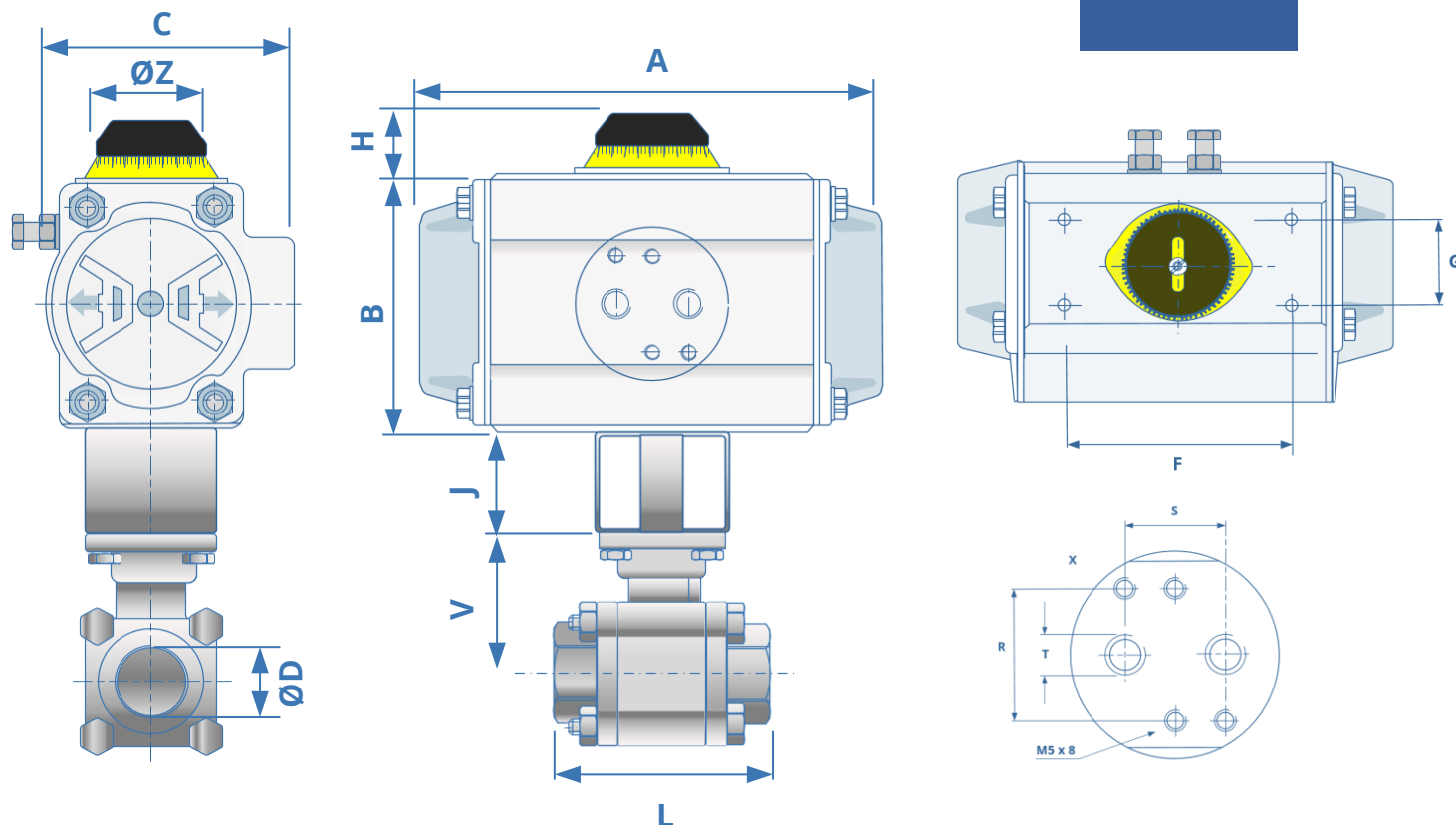
Firesafe y antiestático para API - 6ª Edición y certificado



Description

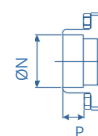
Une combinaison d'un robinet à bille entièrement maintenable en 3 pièces, monté sur un puissant actionneur pneumatique à fermeture / ouverture ou à double effet. Parfaitement adapté pour l'isolation marche / arrêt à la vapeur à des températures allant jusqu'à 200 ° C à 13 bars. Un facteur de sécurité de 30% est inclus lors du dimensionnement, offrant un fonctionnement fiable et sûr.

Firesafe et Antistatic to API - 6ème édition et certifié



Threaded - Spring Open / or Close - Dimensions mm

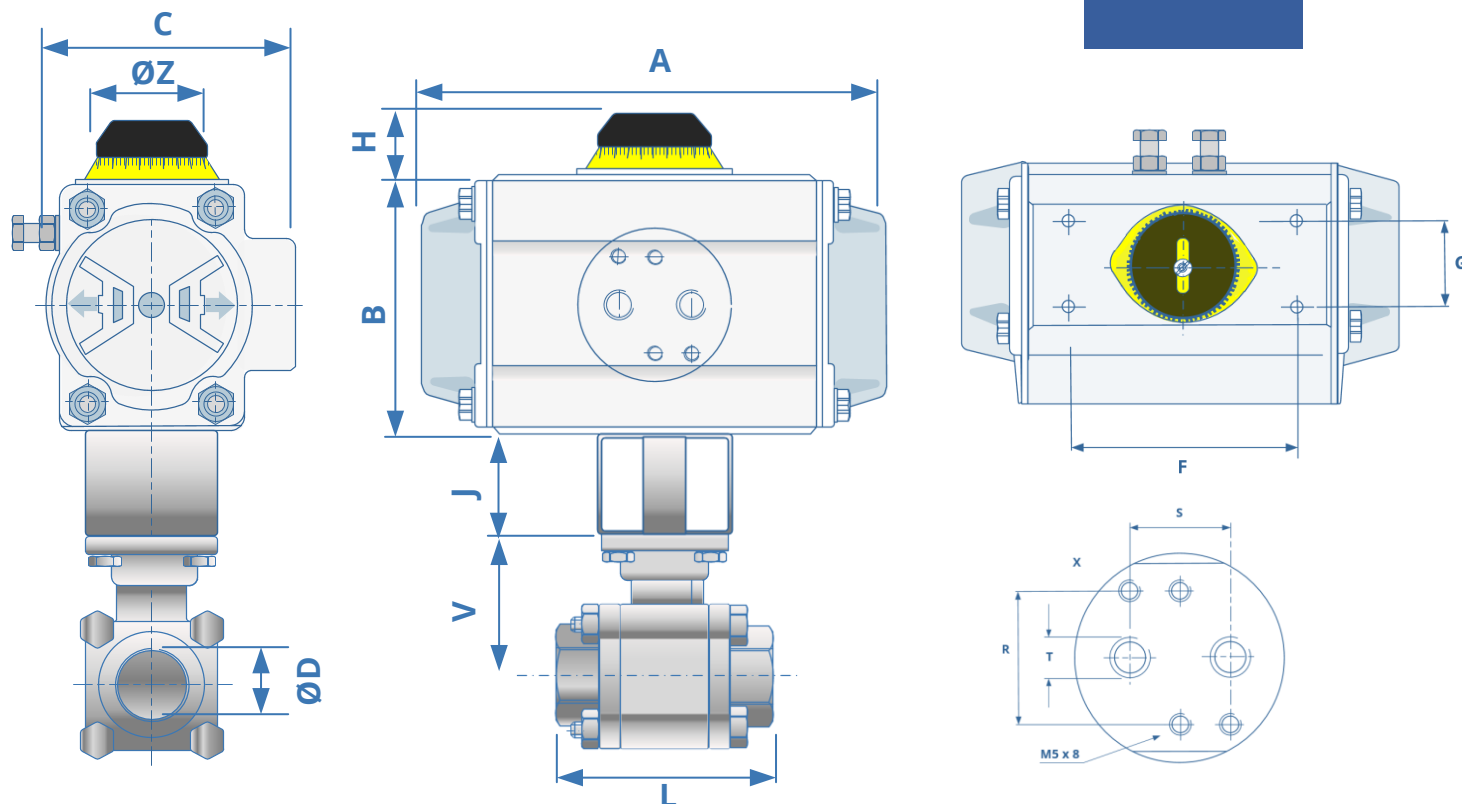
Port Connection	Actuator Type	L	ØD	V	A	B	C	F	G	H	R	S	T	J	Weight kg	KV m³/h
Size	Model															
1/2"	HP66S	70	15	48	202	87	85	80	30	20	32	24	1/8"	100	3.5	19
3/4"	HP75S	92	20	53	210	104	96	80	30	20	32	24	1/8"	100	5	46
1"	HP75S	105	25	59	210	104	96	80	30	20	32	24	1/8"	100	5.5	72
1 1/4"	HP88S	111	32	62	247	116	108	80	30	20	32	24	1/8"	100	6	105
1 1/2"	HP100S	124	40	70	268	128	123	8	30	20	32	24	1/8"	100	10	170
2"	HP125S	150	50	90	347	159	141	80	30	20	32	24	1/8"	100	16	275

Socket
weld

WELDED - Spring Open / or Close - Dimensions mm

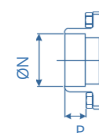
Port Connection	Actuator Type	L	ØD	V	A	B	C	F	G	H	R	S	N	P	T	J	Weight kg	KV m³/h
Size	Model																	
1/2"	HP66S	70	15	48	202	87	85	80	30	20	32	24	21.8	12.7	1/8"	100	3.5	19
3/4"	HP75S	92	20	53	210	104	96	80	30	20	32	24	27.1	14.3	1/8"	100	5	46
1"	HP75S	105	25	59	210	104	96	80	30	20	32	24	33.8	15.9	1/8"	100	5.5	72
1 1/4"	HP88S	111	32	62	247	116	108	80	30	20	32	24	42.5	17.5	1/8"	100	6	105
1 1/2"	HP100S	124	40	70	268	128	123	8	30	20	32	24	48.7	18.3	1/8"	100	10	170
2"	HP125S	150	50	90	347	159	141	80	30	20	32	24	61.1	21.3	1/8"	100	16	275

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.



Threaded - Double Acting - Dimensions mm

Port Connection	Actuator Type	L	ØD	V	A	B	C	F	G	H	R	S	T	J	Weight kg	KV m³/h
Size	Model															
1/2"	HP63D	70	15	48	202	87	85	80	30	20	32	24	1/8"	100	2.7	19
3/4"	HP63D	92	20	53	210	104	96	80	30	20	32	24	1/8"	100	2.7	46
1"	HP63D	105	25	59	210	104	96	80	30	20	32	24	1/8"	100	4.6	72
1 1/4"	HP66D	111	32	62	247	116	108	80	30	20	32	24	1/8"	100	5.8	105
1 1/2"	HP88D	124	40	70	268	128	123	8	30	20	32	24	1/8"	100	8.8	170
2"	HP100D	150	50	90	347	159	141	80	30	20	32	24	1/8"	100	12	275

Socket
weld

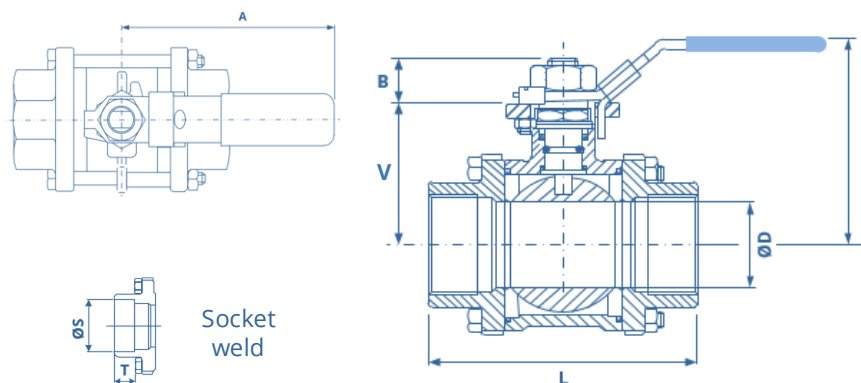
WELD END - Double Acting - Dimensions mm

Port Connection	Actuator Type	L	ØD	V	A	B	C	F	G	H	R	S	N	P	T	J	Weight kg	KV m³/h
Size	Model																	
1/2"	HP63D	70	15	48	202	87	85	80	30	20	32	24	21.8	12.7	1/8"	100	2.7	19
3/4"	HP63D	92	20	53	210	104	96	80	30	20	32	24	27.1	14.3	1/8"	100	2.7	46
1"	HP63D	105	25	59	210	104	96	80	30	20	32	24	33.8	15.9	1/8"	100	4.6	72
1 1/4"	HP66D	111	32	62	247	116	108	80	30	20	32	24	42.5	17.5	1/8"	100	5.8	105
1 1/2"	HP88D	124	40	70	268	128	123	8	30	20	32	24	48.7	18.3	1/8"	100	8.8	170
2"	HP100D	150	50	90	347	159	141	80	30	20	32	24	61.1	21.3	1/8"	100	12	275

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Actuator and Valve Details

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

Socket
weld

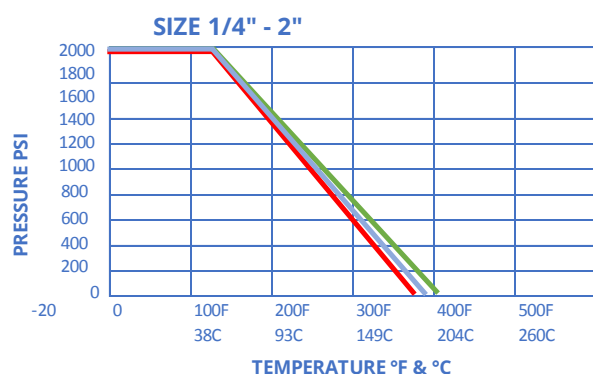
Specification

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

Dimensions

Size	A	B	V	L	S	T	Weight kg
1/2"	130	9	48	70	21.8	12.7	0.48
3/4"	155	12	53	92	27.1	14.3	0.84
1"	155	12	59	105	33.8	15.9	1.1
1 1/4"	205	14.5	62	111	42.5	17.5	1.78
1 1/2"	205	14.5	70	124	48.7	18.3	2.54
2"	300	19	90	150	61.1	21.3	4.12

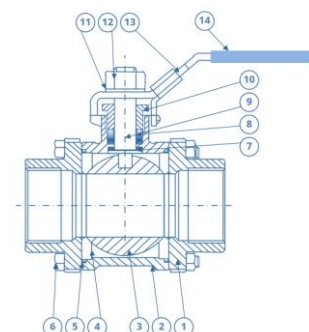
Pressure - Temperature Limits

TFM
1600TFM
4215

PTFE

Material List

NO.	Parts	Materials	QTY
1	End Cap	CF8M	2
2	Body	CF8M	1
3	Ball	SS316	1
4	Seat	PTFE	2
5	Gasket	PTFE	2
6	Bolts	SUS304	4
7	Thrust Washer	RPTFE	1
8	Stem Packing	PTFE	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**

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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



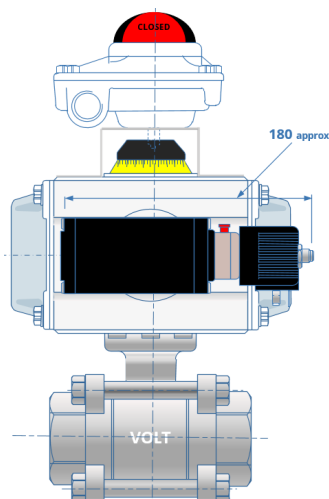
TFM 1600



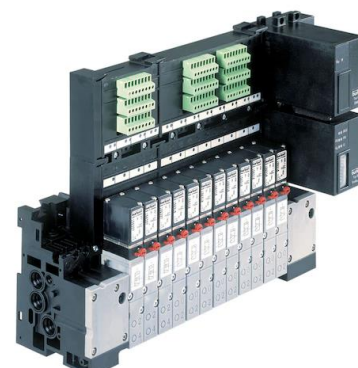
TFM 4215

Pilot Solenoid
Ordering Chart

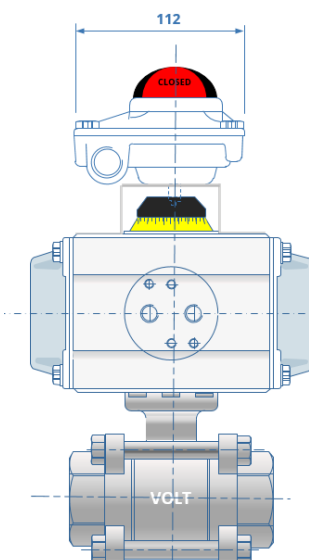
Voltage	Part Number
24 VDC	AP9000-900001
24 VAC	AP9000-900002
110 VAC	AP9000-900003
230 VAC	AP9000-900004



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

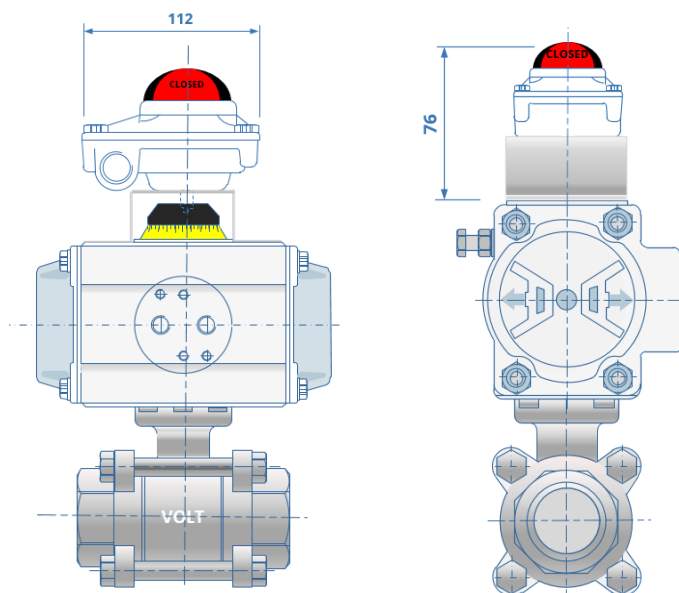
Switch Box
Ordering Chart

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



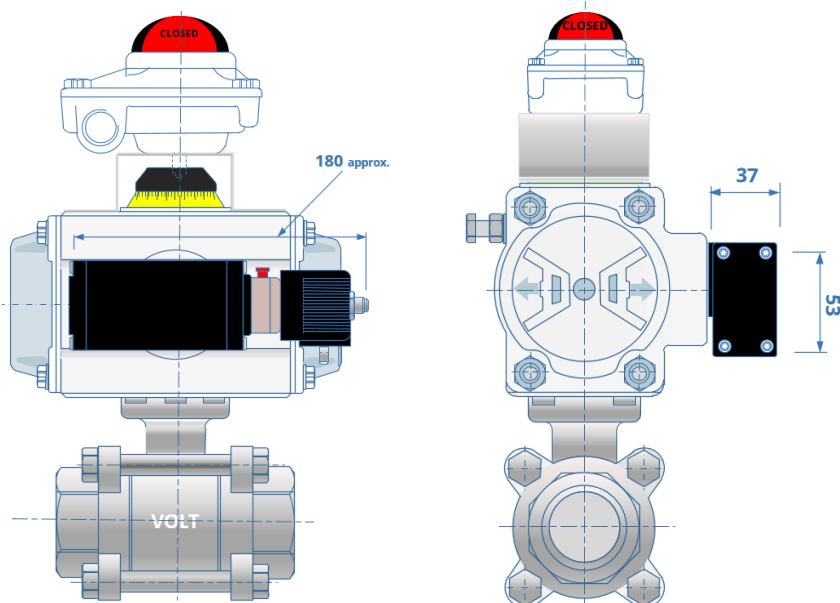
Combination of fieldbus, pilot valves and I/O modules

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.

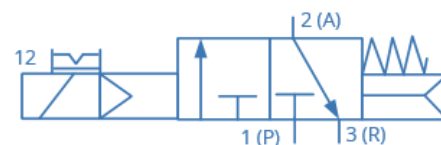
**Namur Pilot Solenoid Valve**

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

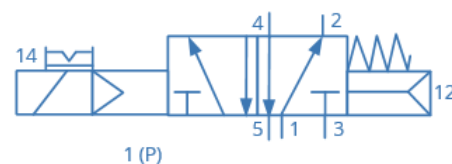
TYPE AP9000

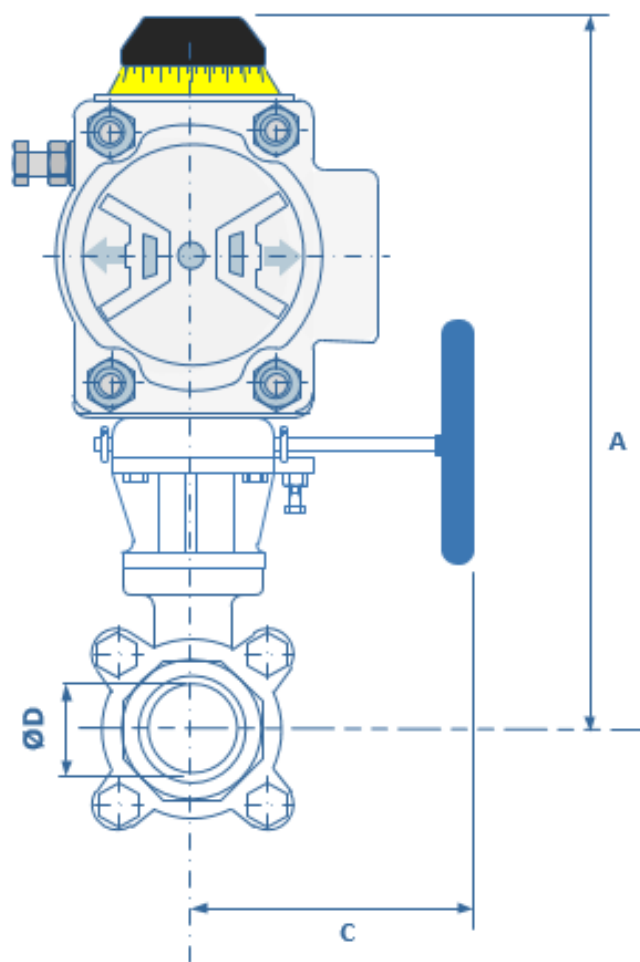
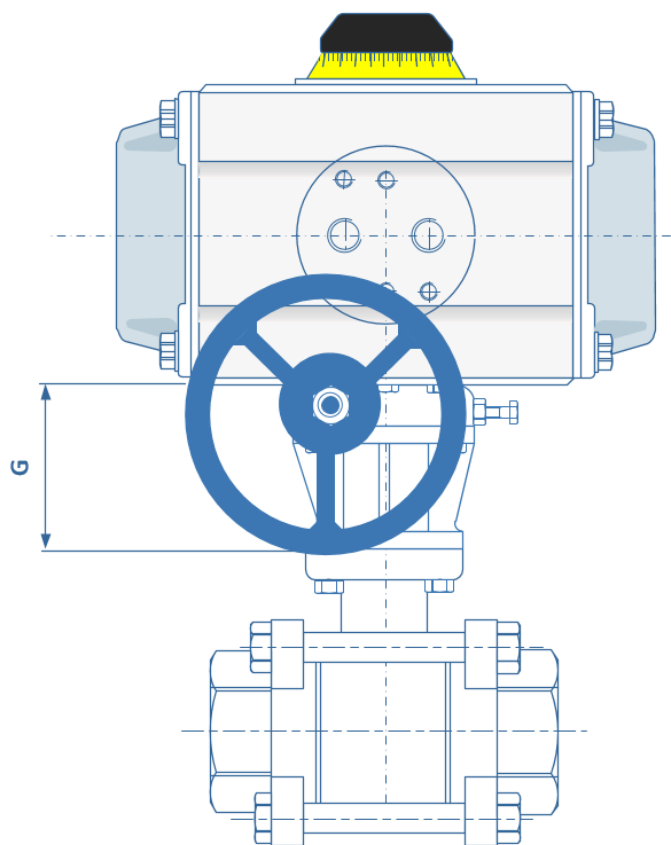
C Function 3/2

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.





Gear Box Ordering Chart

Size	Part Number	Type	A	C	G
1/4"	9393003	960G-010	233	124	104
3/8"	9393003	960G-010	233	124	104
1/2"	9393003	960G-010	249	124	104
3/4"	9393003	960G-010	249	124	104
1"	9393003	960G-010	253	124	104
1 1/4"	9393003	960G-010	269	124	104
1 1/2"	9393003	960G-010	307	124	104
2"	9393004	960G-050	349	142	137

Type	Torque N/M	Ratio
960G-010	120	30:1
960G-050	500	48:1
960G-080	800	52:1
960G-160	1600	64:1