

Solenoid Valve

Angle Seat Valve

Safety Solenoid Valve

High Pressure Valve

Actuator

Pneumatic Directional Control Valve

Industrial Valve

Rotary Coupling



Uflow Automation is an engineering organization committed to provide complete solutions to customer's requirements. We are established in the year 2007 and progressing with a vision of applying finest engineering practices in Valve manufacturing industry by our restless and high skilled **ENGINEERS**, standard organizational **PROCESSES** and superior quality **PRODUCTS**.

We are leading in Solenoid Valve Manufacturing company in India, Known as **Uflow**. Our range of products include - Pilot Operated Diaphragm Type Valves, Pneumatically Control Valves, Gas Solenoid Valves, High Pressure Valves, Industrial Valve, Pneumatic Directional Control Valve, Rotary Coupling and Actuators. Our products are being sold across INDIA and being exported outside India in various other countries.

Our Quality	Our Commitment	About Us
<ul style="list-style-type: none"> ☑ In-House full scale testing facility. ☑ Lean Manufacturing Practices / Six Sigma, Kaizen, 5S. ☑ Certified by : ISO 9001:2015 (Tuv Nord), CE, ERDA, CIMFR, BIS, PESO. 	<ul style="list-style-type: none"> ☑ To understand customer's Need first before proposing our product ☑ To keep providing competitive Rates by continuously improvement in process without compromising in quality. ☑ To provide continuous support to our customers and go beyond their expectations in terms of delivery and after sale services. 	<ul style="list-style-type: none"> ☑ In house R&D, Manufacturing and Testing facility in single location at Gujarat, India. ☑ Authorized distributor channels in 20 different states in India. ☑ Sales office in the UAE, Germany, Chile, Australia (Expanding).

We started building our products for a specific market segment and over the period of time we progressed to build it for various sectors that includes:

☑ Textile	☑ Water Treatment	☑ Energy & Power	☑ Packaging	☑ Pharmaceutical	☑ Oil & Gas
☑ Nuclear	☑ Marine	☑ Chemical	☑ Food and Beverage	☑ Steel & Cement	☑ Automotive

We Stand amongst the pioneers of the industry because of our following competitive advantages:

- ☑ Total Quality Management Allow us to maintain the quality of our products.
- ☑ We follow genuine customer relationship policy and that help us to build trusted relationships.
- ☑ We believe in timely delivery with and consistent quality standards, State of art testing facility to ensure our customers don't have complains.
- ☑ Innovative products range with and sophisticated and latest technology. Excellent R&D team allow us to develop new product faster.
- ☑ Highly accessible customer service team facilities to interact with our customers. Feel free to ask us for our customer references and product samples.

Uflow quality is based on the platform of process control granting the elimination of variances, a computerized integrated system able to guarantee the quality of products, the recording each production step to ensure effective data analysis as well as a complete and efficient traceability of both components and finished products, always maintaining standards of high competitiveness in the marketplace.

MODEL INFORMATION

Type	Solenoid Operated, Lever Operated, Pilot Air Operated, Push Pull (3X2, 5X2, 5X3 & NC / NO)
Design	Spool with Cartridge Type
3X2 Port Size	In/Out - 1/4" BSP & Exhaust - 1/4" BSP
5X2 & 5X3 Port Size	In/Out - 1/4" BSP & Exhaust / Pilot Port 1/8" BSP
Medium	Compressed Air (Filtered & Lubricated)
Working Pressure Range	2 - 10 bar
Ambient/Medium Temperature	5° - 60° C
Flow	1200 lpm
Materials of Construction	Aluminium, Nitrile, Brass, Polymer

COIL INFORMATION

Coil Width	26 mm
Coil Bore	10 mm
Voltage (V) + 10%	AC (50Hz, 60Hz) - 24V, 110V, 230V DC 12V, 24V, 36V, 48V, 110V
Power Consumption	AC-6W, DC-6W
Duty Cycle	Continuous
Class of Insulation	Class H
Type of Coil Protection	IP65

FEATURES

- ☒ Cartridge Type design for Long Life
 ☒ Compact Design
 ☒ Standard NAMUR Mounting
 ☒ Fast response time at maximum 1000 cycle/min
☒ Low Power Consumption
 ☒ Lubrication not essential
 ☒ Wide range of coil voltage
 ☒ 20 Lacs Cycle tested
 ☒ Manual Override

3X2, 5X2 SINGLE SOLENOID VALVE WITH SPRING RETURN

PRODUCT IMAGE



1 - Input, 2/4 - Output, 3/5 - Exhaust

Model	Function	Symbol
STA1	NC	
STA1Z	NO	
SFA1	SPRING RETURN	

SYMBOL

3X2, 5X2 DOUBLE SOLENOID VALVE

PRODUCT IMAGE



1 - Input, 2/4 - Output, 3/5 - Exhaust

Model	Function	Symbol
STA1D	DOUBLE SOLENOID	
SFA1D	DOUBLE SOLENOID	

SYMBOL

3X2, 5X2 SINGLE SOLENOID NAMUR VALVE WITH SPRING RETURN

PRODUCT IMAGE



1 - Input, 2/4 - Output, 3/5 - Exhaust

Model	Function	Symbol
STA1N	3X2 SPRING RETURN	
SFA1N	5X2 SPRING RETURN	

SYMBOL

3X2, 5X2 DOUBLE SOLENOID NAMUR VALVE

PRODUCT IMAGE



1 - Input, 2/4 - Output, 3/5 - Exhaust

Model	Function	Symbol
STA1DN	3X2 DOUBLE SOLENOID	
SFA1DN	5X2 DOUBLE SOLENOID	

SYMBOL

5X3 DOUBLE SOLENOID VALVE WITH SPRING CENTER

PRODUCT IMAGE



1 - Input, 2/4 - Output, 3/5 - Exhaust

Model	Function	Symbol
SCA1DB	CENTERED BLOCKED	
SCA1DE	CENTERED EXHAUSTED	
SCA1DP	CENTERED PRESSURISED	

SYMBOL

3X2 HAND LEVER VALVE

PRODUCT IMAGE



1 - Input, 2 - Output, 3 - Exhaust

Model	Function	Symbol
LTA1	SPRING RETURN (NC)	
LTA1Z	SPRING RETURN (NO)	
LTA1D	MANUAL RETURN	

SYMBOL

5X2 HAND LEVER VALVE MANUAL WITH SPRING RETURN

PRODUCT IMAGE



1 - Input, 2/4 - Output, 3/5 - Exhaust

Model	Function	Symbol
LFA1	SPRING RETURN	
LFA1D	MANUAL RETURN	

SYMBOL

5X3 HAND LEVER VALVE MANUAL RETURN

PRODUCT IMAGE



1 - Input, 2/4 - Output, 3/5 - Exhaust

Model	Function	Symbol
LCA1DB	CENTERED BLOCKED	
LCA1DE	CENTERED EXHAUSTED	
LCA1DP	CENTERED PRESSURISED	

SYMBOL

5X3 HAND LEVER VALVE SPRING RETURN

PRODUCT IMAGE



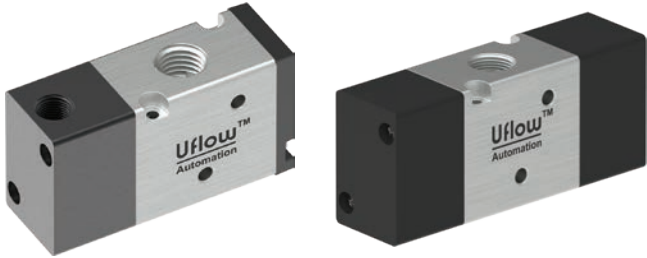
1 - Input, 2/4 - Output, 3/5 - Exhaust

Model	Function	Symbol
LCA1B	CENTERED BLOCKED	
LCA1E	CENTERED EXHAUSTED	
LCA1P	CENTERED PRESSURISED	

SYMBOL

3X2 EXTERNAL PILOT OPERATED VALVE

PRODUCT IMAGE



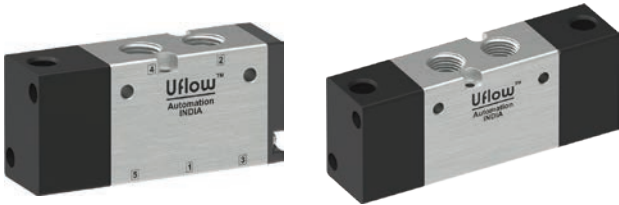
1 - Input, 2/4 - Output, 3/5 - Exhaust, 10/12 - External Pilot

Model	Function	Symbol
ATA1	SPRING RETURN (NC)	
ATA1Z	SPRING RETURN (NO)	
ATA1D	DOUBLE EXTERNAL	

SYMBOL

5X2 EXTERNAL PILOT OPERATED VALVE

PRODUCT IMAGE



1 - Input, 2/4 - Output, 3/5 - Exhaust, 10/12 - External Pilot

Model	Function	Symbol
AFA1	SPRING RETURN	
AFA1D	DOUBLE EXTERNAL	

SYMBOL

5X3 DOUBLE EXTERNAL PILOT OPERATED VALVE WITH SPRING CENTER

PRODUCT IMAGE



1 - Input, 2/4 - Output, 3/5 - Exhaust, 10/12 - External Pilot

Model	Function	Symbol
ACA1DB	CENTERED BLOCKED	
ACA1DE	CENTERED EXHAUSTED	
ACA1DP	CENTERED PRESSURISED	

SYMBOL

3X2 PUSH PULL VALVE MANUAL WITH SPRING RETURN

PRODUCT IMAGE



1 - Input, 2/4 - Output, 3/5 - Exhaust

Model	Function	Symbol
PTA1	SPRING RETURN (NC)	
PTA1Z	SPRING RETURN (NO)	
PTA1D	MANUAL RETURN	

SYMBOL

5X2 PUSH PULL VALVE

PRODUCT IMAGE



1 - Input, 2/4 - Output, 3/5 - Exhaust

Model	Function	Symbol
PFA1	SPRING RETURN	
PFA1D	MANUAL RETURN	

SYMBOL

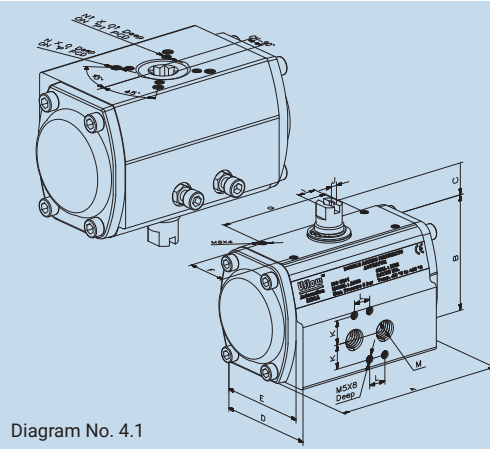


Diagram No. 4.1

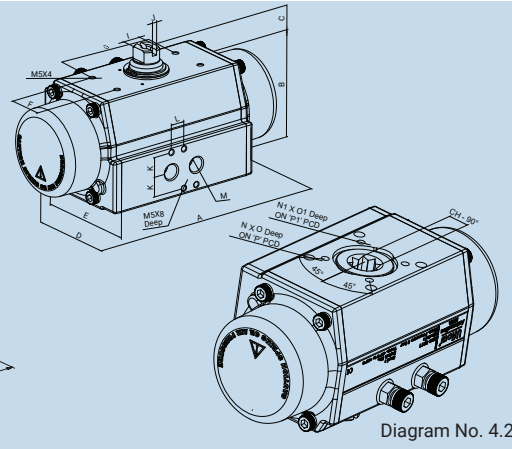


Diagram No. 4.2

FEATURES

Uflow has successfully developed Compact, Patented Aluminium Free Rack & Pinion Pneumatic Rotary Actuator, Consuming Low Volume of Air.

- ✓ Wear proof aluminium free Rack & Pinion design.
- ✓ Low air consumption with maximum torque due to compact design.
- ✓ Providing a hard-anodized body for high corrosion resistance.
- ✓ Smooth travelling stroke for extending the life of ball valve sheet.
- ✓ Finer teeth module for smoother operation, and jerk-free sliding.
- ✓ Maintenance-free design.
- ✓ Aluminium Extruded, Hard Anodized Body.

TEMPERATURE RANGE

NBR	-20°C to + 80°C
Viton	-20°C to + 125°C
Flourosilicone	-60°C to + 110°C

END STROKE (0° - 90°)

+5° Over travelling Possible for opening
-5° Under travelling Can be adjusted

WORKING PRESSURE

Maximum working pressure 8 bar

TORQUE CHART (DOUBLE ACTING)

TORQUE Nm (10Nm = 1 Kgm)

Model No.	Diagram No.	2 Bar	3 Bar	4 Bar	5 Bar	6 Bar	7 Bar	8 Bar
AD32	4.1	3	4.60	6	7.60	9	10.50	12
AD50	4.1	10.80	16	21.50	27	32.50	38	43
AD63	4.1	20	30	40	50	60	70	80
AD80	4.1	34.50	51.50	69	86.50	103	120.50	138
AD100	4.1	73	110	146	183	220	256	293
AD125	4.1	127	190	254	317.50	381	444.50	508
AD150	4.1	210	316	421	526	631	737	842

AIR CONSUMPTION COMPARISON WITH OTHER REPUTED BRAND

Model	Piston Inward Stroke ml / bar	Piston Outward Stroke ml / bar
(Uflow) AD50	128	137
Other Brand Y	260	110
Other Brand X	200	180

TECHNICAL DATA

Model No.	Diagram No.	Double / Single A	B	C	D	E	F	G	I	J	K	L	M	N	O	P	N1	O1	P1	CH 90	ISO FLANGE
AD32 / AS32	4.1 / 4.2	92 / 115	48	20	54	54	30	50	10	4	16	12	1/8"	M5	09	36	-	-	-	09	F03
AD50 / AS50	4.1 / 4.2	131 / 162	77	20	72	65	30	80	13	4	16	12	1/4"	M6	12	50	M5	10	36	11	F03 / F05
AD63 / AS63	4.1 / 4.2	147 / 203	87	20	86	86	30	80	15	4	16	12	1/4"	M8	12	70	M6	10	50	14	F05 / F07
AD80 / AS80	4.1 / 4.2	170 / 233	103	20	98	98	30	80	18	4	16	12	1/4"	M8	12	70	M6	10	50	17	F05 / F07
AD100 / AS100	4.1 / 4.2	217 / 302	129	20	126	126	30	80	26	4	16	12	1/4"	M10	15	102	M8	14	70	22	F07 / F10
AD125 / AS125	4.1 / 4.2	263 / 355	161	20	150	150	30	80	30	4	16	12	1/4"	M12	20	125	M10	14	102	22	F10 / F12
AD150	4.1	296	188	20	175	175	30	80	35	4	16	12	1/4"	M12	20	125	M10	14	102	27	F10 / F12

DOUBLE ACTING

SECTION VIEW

SINGLE ACTING



TORQUE CHART (SINGLE ACTING)

TORQUE Nm (10Nm = 1 Kg/m)

Model No.	Spring Set	Spring Torque		3 bar		4 bar		5 bar		6 bar		Piston Outward Stroke, ml/bar
		0° (Min)	90° (Max)	90° (Min)	0° (Max)	90° (Min)	0° (Max)	90° (Min)	0° (Max)	90° (Min)	0° (Min)	
AS32	21	2	3	2	3	3	4	5	6	6	7	40
	12	3	5	-	-	1	3	3	5	4	6	
	22	4	6	-	-	1	2	2	4	3	5	
AS50	02	6	13	3	10	9	16	14	21	20	27	137
	21	8	14	2	8	8	14	13	19	19	25	
	12	9	16	-	-	6	13	11	18	17	24	
	22	12	18	-	-	4	10	9	15	15	21	
AS63	02	11	22	8	19	18	29	28	39	38	49	280
	21	15	24	6	15	16	25	26	35	36	45	
	12	16	29	1	14	11	24	21	34	31	44	
	22	21	35	-	-	5	19	15	29	25	39	
AS80	201	13	23	29	39	46	56	63	73	80	90	450
	211	19	34	18	33	35	50	52	67	69	84	
	121	23	40	12	29	29	46	46	63	63	80	
	112	23	43	9	29	26	46	43	63	60	80	
	212	26	47	5	26	22	43	39	60	56	77	
	222	36	61	-	-	8	33	25	50	42	67	
AS100	11	40	59	51	70	87	106	124	143	161	180	1040
	16	51	77	33	59	69	95	106	132	143	169	
	18	53	81	29	57	65	93	102	130	139	167	
	22	61	96	14	49	50	85	87	122	124	159	
	24	71	109	-	-	37	75	74	112	111	149	
	26	83	127	-	-	19	63	56	100	93	137	

Note: For Any Other Spring Combination Contact Uflow

UFLOW LIMIT SWITCH FEATURE

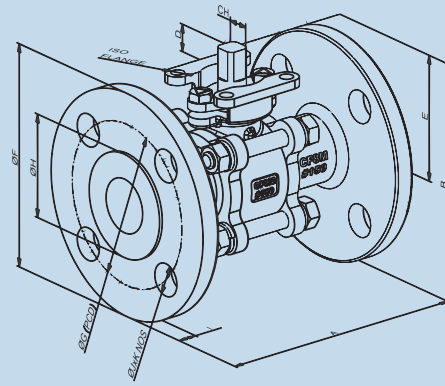
- ☑ Weatherproof limit switch.
- ☑ IP67 For Water, Rain & Dustproof.
- ☑ Compact & Light Weight Design
- ☑ Open / Close Indication show in any direction.
- ☑ No extra attachment require for Indicator Dome inbuilt with Transparent cover.
- ☑ Every adjustable serrated cam for fast & Fine switch adjustment & Also helpful for fine adjusting of feedback setting.
- ☑ Cable entries with various connection availability M20 & 1/2" NPT.
- ☑ Uflow makes special PCB to prevent short circuit.
- ☑ Additional mounting available as the UNC series.
- ☑ A Stainless steel bracket is available as an option.
- ☑ Temperature range - 20°C to + 80°C



PRODUCT IMAGE



Diagram No. 6.1

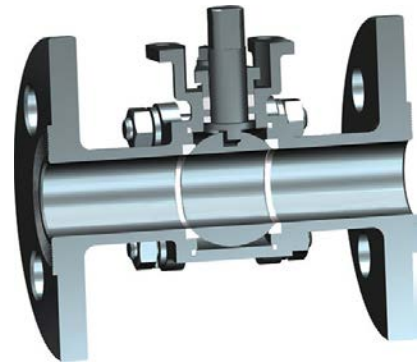


SPECIFICATIONS

End Connection :	Flange end, Butt weld
Face to Face :	ASME B 16.10 (Flange end)
Pressure Class :	150#
Design Standard :	ASME B16.10, ASME B16.25, ASME B16.34, ASME B16.5, API 598, BS EN ISO 17292, ISO 5211
Body Material :	CF8 / CF8M / WCB / CF3M
Tail Piece Material :	CF8 / CF8M / WCB / CF3M
Ball Material :	CF8 / CF8M
Body Seal Material :	PTFE / RPTFE / CFT / GFT / PEEK
Seat Ring Material :	PTFE / RPTFE / CFT / GFT / PEEK
Fastner Material :	SS304 / SS316
Stem Seal Material :	PTFE / RPTFE / CFT / GFT / PEEK
Stem Material :	SS304 / SS316 / SS410
Gland Bush Material :	SS304 / SS316 / SS410
Gland Material :	SS304 / SS316 / SS410

FEATURES

- ✓ 3PC design twinseal ball valve.
- ✓ Full port ball valve.
- ✓ Blow out proof stem.
- ✓ Floating ball design.
- ✓ Hand Lever / Gear / Actuator Operated.
- ✓ Balls are precision machined and mirror finished for bubble-tight shut off with less operating torque.
- ✓ Face to Face:- ASME B16.10.
- ✓ End Connection:- Flanged (ASME B16.5), Buttweld (ASME B16.25).
- ✓ ISO 5211 top mounting pad available for easy Uflow make actuator mounting.



SECTION VIEW

DIMENSION

Model No.	Diagram No.	Pipe (Inch)	A	B	CH	D	E	F	G	H	I	J	K	ISO 5211
BCPC2AF	6.1	½"	108	92	9.10	8.5	47	90	60.50	35	8	16	4	F03
BCPC3AF	6.1	¾"	117	95	9.10	8.5	50	100	70	44.50	9	16	4	F03
BCPC4AF	6.1	1"	127	117	11	13.5	61.50	110	79.50	51	9.60	16	4	F05
BCPC6AF	6.1	1½"	165	136	11	13	73.50	125	98.50	73	12.50	16	4	F05
BCPC8AF	6.1	2"	178	158	11	13	83	150	121	92	14.50	19	4	F05
BCPC9AF	6.1	2½"	190	198.50	14	15	108.50	180	139.50	105	16	19.50	4	F07
BCPCAAAF	6.1	3"	203	218.50	17	20.50	123.50	190	152.50	127	17.50	19.50	4	F07
BCPCBAF	6.1	4"	229	257.50	22	21.50	143	229	190.50	157	22.50	19	8	F07

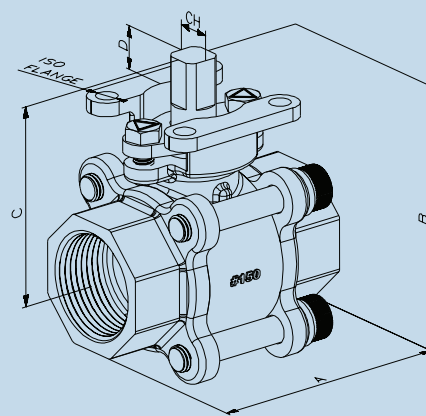


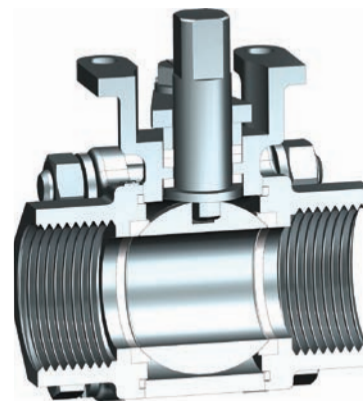
Diagram No. 7.1

SPECIFICATIONS

End Connection:	Screwed end, Socket Weld
Size :	DN15 - DN80
Face to Face :	MFG. Standard
Pressure Class :	150#
Design Standard :	ASME B16.11, ASME B16.34, API 598, BS EN ISO 17292, ISO 5211
Body Material :	CF8 / CF8M / WCB / CF3M
Pipe End Material :	CF8 / CF8M / WCB / CF3M
Ball Material :	CF8 / CF8M
Body Seal Material :	PTFE / RPTFE / CFT / GFT / PEEK
Seat Ring Material :	PTFE / RPTFE / CFT / GFT / PEEK
Fastner Material :	SS304 / SS316
Stem Seal Material :	PTFE / RPTFE / CFT / GFT / PEEK
Stem Material :	SS304 / SS316 / SS410
Gland Bush Material :	SS304 / SS316 / SS410
Gland Material :	SS304 / SS316 / SS410

FEATURES

- ✓ 3PC design twinseal ball valve.
- ✓ Full port ball valve.
- ✓ Blow out proof stem.
- ✓ Floating ball design.
- ✓ Hand lever / Gear / Actuator operated.
- ✓ Balls are precision machined and mirror finished for bubble-tight shut off with less operating torque.
- ✓ Face to Face:- MFG Standard.
- ✓ End Connection:- Screwed / Socket weld (ASME B16.11).
- ✓ ISO 5211 top mounting pad available for easy Uflow make actuator mounting.



SECTION VIEW

DIMENSION

Model No.	Diagram No.	Pipe (Inch)	A	B	C	CH	D	ISO Flange
BCPC2AS	7.1	½"	59.50	68	47.50	9.10	8.50	F03
BCPC3AS	7.1	¾"	57	71	49	9.10	8.50	F03
BCPC4AS	7.1	1"	75.70	90	61.50	11	13	F05
BCPC6AS	7.1	1½"	93.60	110	73.50	11	12	F05
BCPC8AS	7.1	2"	109	128	82.50	11	13	F05
BCPC9AS	7.1	2½"	139	173	108.50	14	15	F07
BCPCAAS	7.1	3"	166	199	123.50	17	20.50	F07

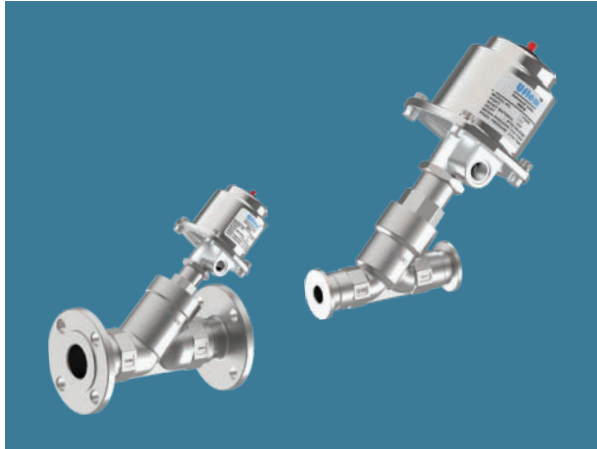
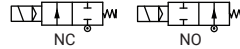
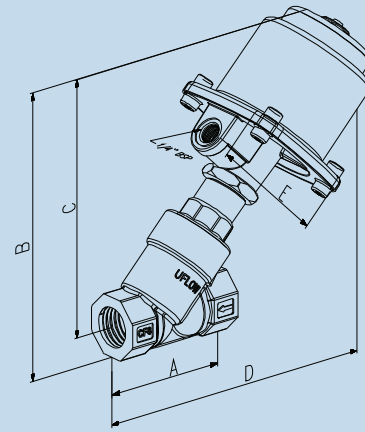


Diagram No. 8.1



SPECIFICATIONS

Port :	Refer below technical data sheet (Available BSP / NPT)
End Connection :	Screwed / Flange / Tri-Clamp
Body Material :	SS ASTM A351 Grade CF8 / CF8M
Seal :	TEFLON / VITON / EPDM / SILICON
Circumstance Temp :	-10°C to 70°C
Media Temp:	-10°C to 180°C
Media :	Steam, Air, Water, Chemical, Gases, Oil, Diesel, Hot Water

DIMENSION (NC)

All dimensions are in mm

Model No.	Port Size	Diagram No.	A	B	C	D	E
YCP25	½"	8.1	65	163	151	173	90
YCP35	¾"	8.1	77	172	156	183	90
YCP45	1"	8.1	89	182	162	190	90
YCP55	1¼"	8.1	124	200	172	208	90
YCP65	1½"	8.1	124	200	172	208	90
YCP83	2"	8.1	150	225	191	234	90

ACTUATOR TYPE

Cover :	SS304
Plate :	Aluminum Die-Cast
Working Pressure :	3.5 to 7 bar air (Not recommended actuator pressure above 7 bar)
Life :	More than ten million cycle
Other Technical Data :	Available on Request

NOTE: Use of filter in the inlet port is recommended.

TECHNICAL DATA

Model No.	Body Material	Pipe (Inch)	Orifice (mm)	Min. Operating Pressure Kg/cm ²	Max. Operating Pressure Kg/cm ²	Seal & 'O' Ring Material	Flow Factor Kv m ³ / hr
YCP25	CF8 / CF8M	½"	15	0	16	PTFE / VITON / EPDM	6
YCP35	CF8 / CF8M	¾"	20	0	16	PTFE / VITON / EPDM	10.90
YCP45	CF8 / CF8M	1"	25	0	16	PTFE / VITON / EPDM	21
YCP55	CF8 / CF8M	1¼"	40	0	16	PTFE / VITON / EPDM	35
YCP65	CF8 / CF8M	1½"	40	0	16	PTFE / VITON / EPDM	49
YCP83	CF8 / CF8M	2"	50	0	07	PTFE / VITON / EPDM	68



SECTION VIEW

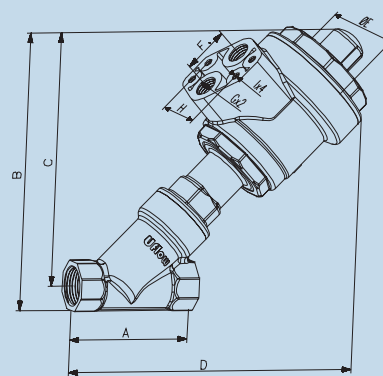
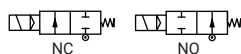


Diagram No. 9.1



SPECIFICATIONS

Port :	Refer below technical data sheet (Available BSP / NPT)
End Connection :	Screwed / Flange / Tri-Clamp
Body & Sleeve Material :	SS ASTM A351 Grade CF8 / CF8M
Seal :	TEFLON / PEEK / VITON / EPDM
Shaft :	SS304 / SS316
Circumstance Temp :	-10°C to 70°C
Media Temp :	-10°C to 180°C

ACTUATOR TYPE

Cover :	Nylon Glass-Filled (Corrosion resistive) with SS Liner
Seal :	NBR / VITON
Working Pressure :	3.5 to 8 bar (Air)
Life :	Three Million Cycle Tested
Other Technical Data :	Available on Request - High Pressure 25Kg series

NOTE: Use of filter in the inlet port is recommended

DIMENSION

All dimensions are in mm

Model No.	Port Size	Diagram No.	A	B	C	D	E	F	G	H	I
ACP255	½"	9.1	65	141.50	129	151.50	64.50	24	G1/4"	32	M5
ACP355	¾"	9.1	77	151	134	161.50	64.50	24	G1/4"	32	M5
ACP456	1"	9.1	89	194	173	202	85	24	G1/4"	32	M5
ACP556	1¼"	9.1	124	210.50	183	219	85	24	G1/4"	32	M5
ACP656	1½"	9.1	124	210.50	183	219	85	24	G1/4"	32	M5
ACP858	2"	9.1	150	285	250	302	115	24	G1/4"	32	M5

TECHNICAL DATA

Model No.	Body Material	Pipe (Inch)	Orifice (mm)	Min. Operating Pressure Kg/cm ²	Max. Operating Pressure Kg/cm ²	Seal & 'O' Ring Material	Flow Factor Kv m ³ / hr
ACP255	CF8 / CF8M	½"	14.50	0	16	PTFE / PEEK / VITON	6
ACP355	CF8 / CF8M	¾"	20	0	16	PTFE / PEEK / VITON	10.9
ACP456	CF8 / CF8M	1"	25	0	16	PTFE / PEEK / VITON	21
ACP556	CF8 / CF8M	1¼"	40	0	16	PTFE / PEEK / VITON	35
ACP656	CF8 / CF8M	1½"	40	0	16	PTFE / PEEK / VITON	49
ACP858	CF8 / CF8M	2"	50	0	16	PTFE / PEEK / VITON	68

For clarification about pressure range ask for the individual catalogue.

FEATURES

- ☑ Convertible from single Acting to Double Acting .
- ☑ Multiple Function with the same operator - NC / NO / Bi-Directional.
- ☑ Rotatable Operator - 360°.
- ☑ Namur connection for easy to install Pilot Solenoid Valve (Optional).
- ☑ Also available in non-Namur connection operator.
- ☑ Transparent dome for visual valve open indication.
- ☑ Lubricated air not essential.
- ☑ Flow direction below or above the seat.
- ☑ Media : Steam, Air, Water, Chemical, Gases, Oil, Diesel, Hot Water.
- ☑ Application: Steam, Autoclave and Sterilizer, Ink and Paint dispensing, Industrial compressor bottling and dispensing equipment, textile dying and drying and pharmaceutical.



SECTION VIEW

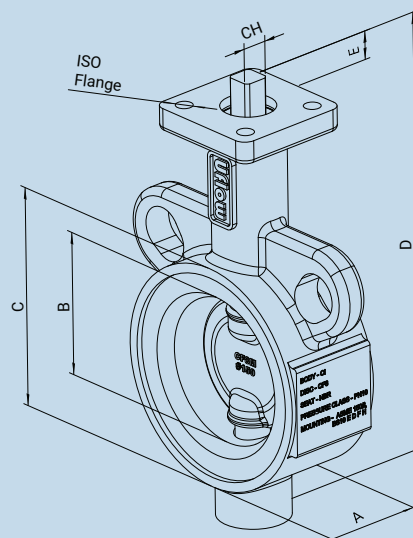


Diagram No. 10.1

SPECIFICATIONS

End Connection :	Wafer - API 609 (CAT - A)
Range :	DN50 - DN250
Suitable to :	ASMI B16.5 150#, BS10 TABLE : E, F, H
Pressure Range :	PN10, PN16
Leakage Class :	100% Tightness at fully differential pressure
Standard :	API 609, BS 5155, ISO 5211, API 598, ASME B16.5
Body Material :	Cast Iron, SGI, WCB
Disc Material :	SGI, WCB, CF8, CF8M, CF3M
Stem Material :	SS 410, SS 304, SS 316
Body Liner / Seat Material :	NBR, EPDM, VITON
Shaft Bearing Material :	PTFE

FEATURES

- ✓ Bi-directional zero leakage butterfly valve.
- ✓ ISO Pad for mounting, Gear Operator / Actuator.
- ✓ Extremely small play between the stem and disc due to 'Double D' drive.
- ✓ Accurate dual stem sealing prevents leakage.
- ✓ Butterfly valve can be mounted between flanges as per ASME, BS-10.
- ✓ 100% tested under Water and Pneumatic.
- ✓ 360° disc rotation.
- ✓ Design Standard : ISO 5211, API 609, ASME B16.5 150#.
- ✓ Nominal Diameter : DN50 -DN250.
- ✓ Pressure Rang (bar) : PN10, PN16.
- ✓ ANSI B16.5 150#, BS10 TABLE E, TABLE F, TABLE H, Flange Accommodation.
- ✓ Face to Face Dimension : API 609 (CAT A).
- ✓ Operator mounting flange : As per ISO 5211.
- ✓ Operator : Hand Lever / Gear / Actuator.
- ✓ End connection : wafer end.
- ✓ Leakage Class : 100% tightness at full differential Pressure.

DIMENSION

All dimensions are in mm

Model No.	Diagram No.	A	B	C	D	E	CH	ISO
RIN8ACAWI	10.1	43	51	92	185	13	11	F05
RINAACAWI	10.1	46	80	122	242	13	11	F05



SECTION VIEW

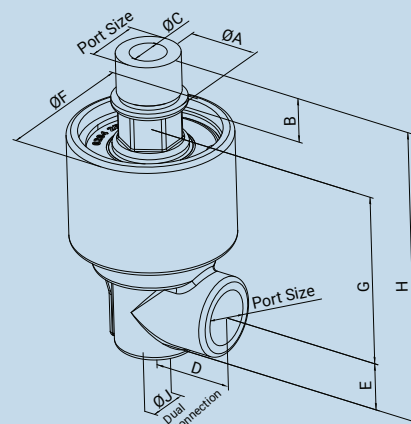


Diagram No. 11.1

SPECIFICATIONS

Port :	Refer below technical data sheet (Available BSP)
Media :	Air, Water, Oil & Gas
Pressure :	Upto 10 bar
Temperature :	85°C (Chilled water & high temperature available on request)
RPM	1000 RPM

FEATURES

- ✓ High-Performance Bearings & Seals.
- ✓ Dual Connection Available.

TECHNICAL DATA

All dimensions are in mm

Model No.	Diagram No.	Body Material	Port Size (BSP)	Seal Material	A	B	C	D	E	F	G	H	J
UCV1L / UCV1R	11.1	CF8 / CF8M	¼"	NBR / VITON	20	14	6	21	12	39	45	85	⅛"
UCV7L / UCV7R	11.1	CF8 / CF8M	⅜"	NBR / VITON	23	14	10	21	13	48	56	97	¼"
UCV2L / UCV2L	11.1	CF8 / CF8M	½"	NBR / VITON	25	16	12	28	16	54	61	106	⅜"
UCV3L / UCV3L	11.1	CF8 / CF8M	¾"	NBR / VITON	32	19	19	39	18	70	75	151	½"
UCV4L / UCV4L	11.1	CF8 / CF8M	1"	NBR / VITON	40	25	24	43	25	82	92	172	¾"
UCV5L / UCV5L	11.1	CF8 / CF8M	1¼"	NBR / VITON	50	26	32	48	32	94	117	209	1"
UCV6L / UCV6L	11.1	CF8 / CF8M	1½"	NBR / VITON	50	26	36	48	32	96	117	211	1"
UCV8L / UCV8L	11.1	CF8 / CF8M	2"	NBR / VITON	71	31	47	61	36	123	153	292	1½"



SECTION VIEW

ROTO SEAL COUPLING MODEL IDENTIFICATION CHART

U C N 1 L											
PRODUCT		BODY MATERIAL		SEAL MATERIAL		PORT SIZE				THREAD TYPE	
U	ROTARY COUPLING	C	CF8	N	NBR	1	¼"	5	1¼"	L	LHS
		M	CF8M	V	VITON	2	½"	6	1½"	R	RHS
		W	WCB			3	¾"	7	⅝"		
						4	1"	8	2"		
UCN1L											
¼" ROTARY COUPLING LHS THREAD											

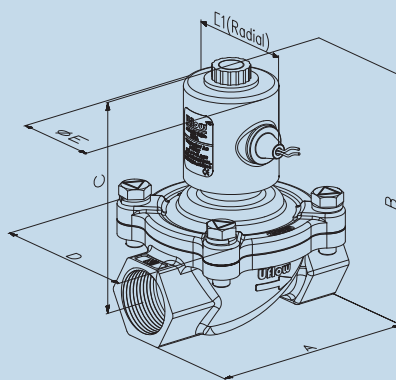


Diagram No. 12.1

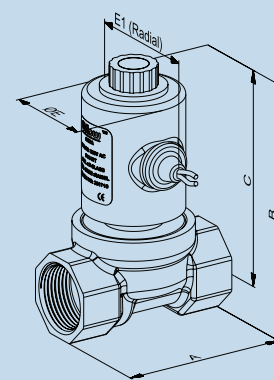
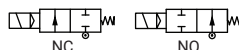


Diagram No. 12.2



SPECIFICATIONS

Port :

End Connection :

Body Material :

Diaphragm :

Media Temp :

Circumstance Temp :

Media :

Main Features :

Operating Voltage :

Power Consumption :

Coil Features :

Coil Housing :

Optional Feature :

Other Specification Data :

Refer below technical data sheet (Available BSP / NPT)

Screwed / Flange

SS ASTM A351 Grade CF8 / CF8M, Forged Brass

Nitrile (NBR)	EPDM	Viton (FKM)	PTFE	
-30° C to 90° C	-10° C to 140° C	-10° C to 180° C	-10° C to 180° C	

-10° C to 70° C

Air, Water, Chemical, Gas, Oil, Steam, LPG.

Internal Parts are in superior corrosion resistance steel, (Equivalent to SS316L) Suitable for Food Industries, Pharmaceuticals, Chemical application & Highly corrosive environment.

24AC	110AC	230AC	12DC	24DC
7W	8W	8W / 17W	10W	11W

High Reliability Unaffected by Voltage Surges.
Easy coil changes coil lockable in 4X90 position or freely movable in between as require.

Epoxy square coil, Metallic round enclosure, IP-67 Flameproof enclosure, IP-68 Weatherproof enclosure.

90% Power saver series also available, Water hammering reducer also available to avoid water hammer forces.
☒ Special high flow rate series available on request at low pressure or gravity pressure application.

Available on Request.

NOTE: Use of filter in the inlet port is recommended.
Preferably Over Horizontal Pipeline with the coil upright.

CAUTION: AC coil should not be used on a DC coil valve and vice versa.
For DC coil max operating pressure may reduce by 1 Kg/cm²

TECHNICAL DATA

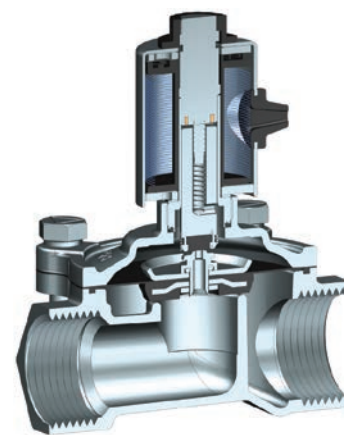
Model No.	Body Material	Pipe (Inch)	Orifice (mm)	Min. Operating Pressure Kg/cm ²	Max. Operating Pressure Kg/cm ²		Seal & Diaphragm Material	Flow Factor Kv m ³ / hr
					AC	DC		
MBN73	Brass	¾"	15.50	0	7	7	NBR / EPDM / VITON	2.50
MBN23	Brass	½"	15.50	0	7	7	NBR / EPDM / VITON	3.10
MBN24	Brass	½"	12	0	10	10	NBR / EPDM / VITON	2.10
MCN24	CF8 / CF8M	½"	17	0	10	8	NBR / EPDM / VITON / PTFE	3.20
MCN34	CF8 / CF8M	¾"	20	0	10	8	NBR / EPDM / VITON	5
MCN44	CF8 / CF8M	1"	25.50	0	10	8	NBR / EPDM / VITON / PTFE	8.20
MCN6D3	CF8 / CF8M	1½"	35	0	4	4	NBR / EPDM / VITON	18.20
MCN8D3	CF8 / CF8M	2"	46.50	0	4	4	NBR / EPDM / VITON	31.40

DIMENSION (NC)

All dimensions are in mm

Model No.	Port Size	Diagram No.	A	B	C	D	E	E1
MBN73	¾"	12.1	57	106	93	46	38	48.50
MBN23	½"	12.1	57	106	93	46	38	48.50
MBN24	½"	12.2	54	91	78	-	38	48.50
MCN23	½"	12.1	69	108	93	56	38	48.50
MCN33	¾"	12.1	76	114	98	62	38	48.50
MCN34	¾"	12.2	65	101	85.3	-	38	48.50
MCN43	1"	12.1	100	121	106	76	38	48.50
MCN6D3	1½"	12.1	108	154	124	89	50	62
MCN8D3	2"	12.1	137	171	137	120	50	62

In normally open valve dimension B&C will increase up to 8mm.



SECTION VIEW

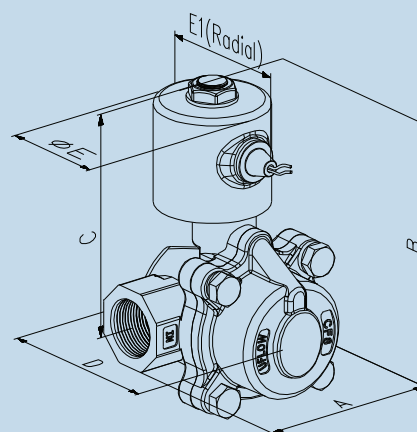
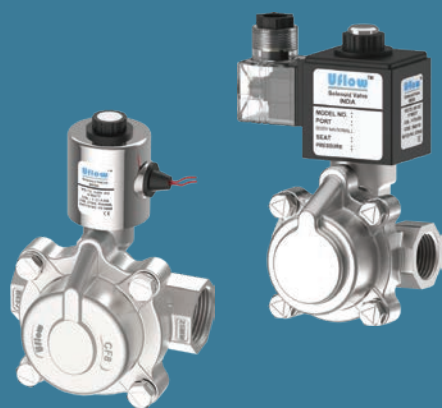
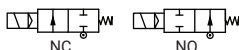


Diagram No. 13.1



SPECIFICATIONS

Port :	Refer below technical data sheet (Available BSP / NPT)
End Connection :	Screwed / Flange
Body Material :	SS ASTM A351 Grade CF8 / CF8M
Seal & 'O' Ring :	PTFE + Silicon / Viton
Media Temp :	-10° C to 180° C
Circumstance Temp :	-10° C to 70° C
Media :	Steam, Hot Water, Hot Fluid, Water Oil
Main Features :	Internal Parts are in superior corrosion resistance steel, (Equivalent to SS316L) Suitable for Food Industries, Pharmaceuticals, Chemical application & Highly corrosive environment.
Operating Voltage :	24AC 110AC 230AC 12DC 24DC
Power Consumption :	7W 8W 8W 10W 11W
Coil Features :	High Reliability Unaffected by Voltage Surges. Easy coil changes coil lockable in 4X90 position or freely movable in between as require.
Coil Housing :	Epoxy square coil, Metallic round enclosure, IP-67 Flame proof enclosure, IP-68 Weather proof enclosure.
Optional Feature :	90% Power saver series also available, Manual Override, Water hammering reducer also available to avoid water hammer forces.
Other Specification Data :	Available on Request

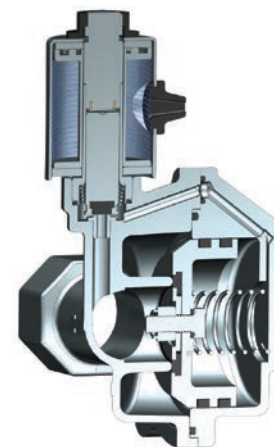
NOTE: Use of filter in the inlet port is recommended.

DIMENSION (NC)

All dimensions are in mm

Model No.	Port Size	Diagram No.	A	B	C	D	E	E1
HCP29	½"	13.1	67	122	94	60	44	57
HCP39	¾"	13.1	81	129.50	97	70	44	57
HCP49	1"	13.1	96	146	104	75	44	57
HCP69	1½"	13.1	108	172	117	96	44	57
HCP89	2"	13.1	132	191	125	114	44	57

In normally open valve dimension B&C will increase up to 8mm.



SECTION VIEW

TECHNICAL DATA

Model No.	Body Material	Pipe (Inch)	Orifice (mm)	Min. Operating Pressure Kg/cm ²	Max. Operating Pressure Kg/cm ²	Seal & Diaphragm Material	Flow Factor Kv m ³ / hr
HCP29	CF8 / CF8M	½"	17	1.5	12	PTFE	4
HCP39	CF8 / CF8M	¾"	20	1.5	12	PTFE	7
HCP49	CF8 / CF8M	1"	25	1.5	12	PTFE	12
HCP59 / HCP69	CF8 / CF8M	1¼" / 1½"	36	1.5	12	PTFE	23
HCP89	CF8 / CF8M	2"	48	1.5	12	PTFE	38
HCP2A	CF8 / CF8M	½"	17	1.5	40	PTFE	3.50
HCP3A	CF8 / CF8M	¾"	20	1.5	40	PTFE	3.30
HCP4A	CF8 / CF8M	1"	25	1.5	40	PTFE	8.30
HCP5A / HCP6A	CF8 / CF8M	1¼" / 1½"	36	1.5	40	PTFE	17
HCP8A	CF8 / CF8M	2"	48	1.5	40	PTFE	31

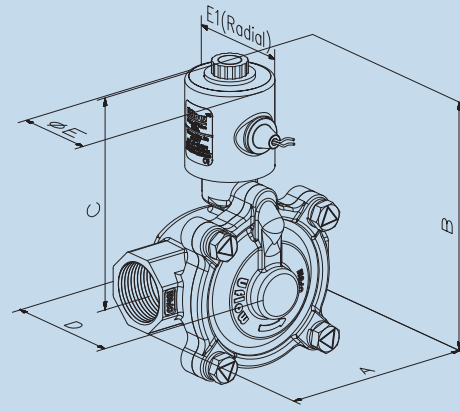
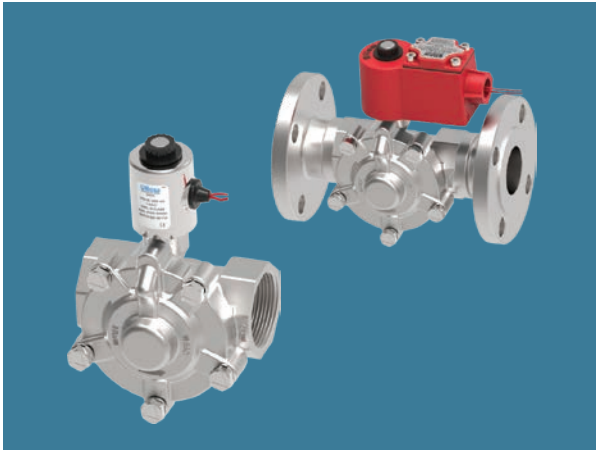
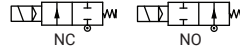


Diagram No. 14.1



SPECIFICATIONS

Port :	Refer below technical data sheet (Available BSP / NPT)				
End Connection :	Screwed / Flange				
Body Material :	SS ASTM A351 Grade CF8 / CF8M				
Diaphragm :	Nitrile (NBR)	EPDM	Viton (FKM)		
Media Temp :	-30° C to 90° C	-10° C to 140° C	-10° C to 180° C		
Circumstance Temp :	-10° C to 70° C				
Media :	Air, Water, Chemical, Gas				
Main Features :	Internal Parts are in superior corrosion resistance steel, (Equivalent to SS316L) Suitable for Food Industries, Pharmaceuticals, Chemical application & Highly corrosive environment.				
Operating Voltage :	24AC	110AC	230AC	12DC	24DC
Power Consumption :	7W	8W	8W	10W	11W
Coil Features :	High Reliability Unaffected by Voltage Surges. Easy coil changes coil lockable in 4X90 position, or freely movable in between as require.				
Optional Feature :	90% Power saver series also available, Manual Override, Water hammering reducer also available to avoid water hammer forces.				
Other Specification Data :	Available on Request - High Pressure 20Kg Series.				

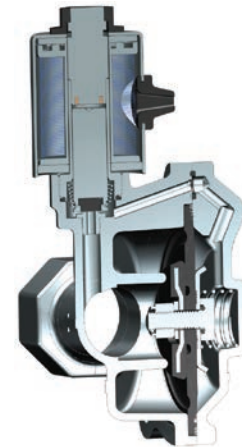
NOTE: Use of filter in the inlet port is recommended.

DIMENSION (NC)

All dimensions are in mm

Model No.	Port Size	Diagram No.	A	B	C	D	E	E1
PCN28	½"	14.1	67	122.50	95	45	48	57
PCN38	¾"	14.1	81	130	97.50	55	48	57
PCN48	1"	14.1	96	145.50	104	64	48	57
PCN58	1¼"	14.1	108	172	116	88	48	57
PCN68	1½"	14.1	108	172	116	88	48	57
PCN88	2"	14.1	132	191	125	98	48	57
PCN98	2½"	14.1	166	212	140	126.50	48	57
PCNA8	3"	14.1	192	236.50	151	138	48	57

In normally open valve dimension B&C will increase up to 8mm.



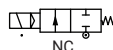
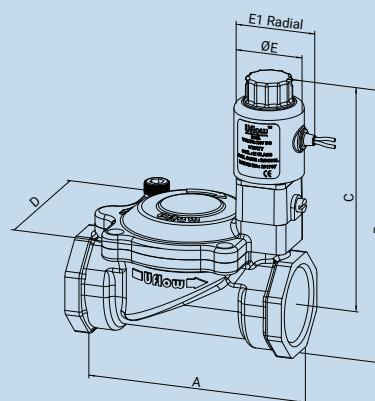
SECTION VIEW

TECHNICAL DATA

Model No.	Body Material	Pipe (Inch)	Orifice (mm)	Min. Operating Pressure Kg/cm ²	Max. Operating Pressure Kg/cm ²	Seal & Diaphragm Material	Flow Factor Kv m ³ / hr
PCN28	CF8 / CF8M	½"	17	0.5	12	NBR / EPDM / VITON	03.20
PCN38	CF8 / CF8M	¾"	20	0.5	12	NBR / EPDM / VITON	5
PCN48	CF8 / CF8M	1"	25	0.5	12	NBR / EPDM / VITON	8.20
PCN58	CF8 / CF8M	1¼"	36	0.5	12	NBR / EPDM / VITON	12.20
PCN68	CF8 / CF8M	1½"	36	0.5	12	NBR / EPDM / VITON	17.10
PCN88	CF8 / CF8M	2"	48	0.5	12	NBR / EPDM / VITON	29.90
PCN98	CF8 / CF8M	2½"	60	0.5	12	NBR / EPDM / VITON	43.50
PCNA8	CF8 / CF8M	3"	72	0.5	12	NBR / EPDM / VITON	64.50



Diagram No. 15.1



SPECIFICATIONS

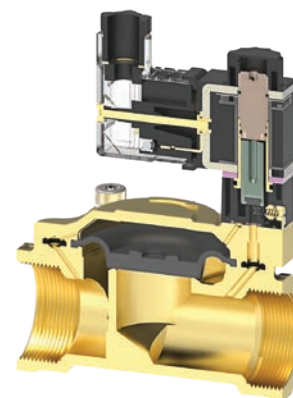
Port :	Refer below technical data sheet (Available BSP / NPT)				
End Connection :	Screwed / Flange				
Body Material :	SS ASTM A351 Grade CF8 / CF8M, Forged Brass				
Diaphragm :	Nitrile (NBR)	EPDM	Viton (FKM)		
Media Temp :	-30° C to 90° C	-10° C to 140° C	-10° C to 180° C		
Circumstance Temp :	-10° C to 70° C				
Media :	Air, Water, Chemical, Gas, Oil, Diesel, Kerosene, LPG.				
Main Features :	Internal Parts are in superior corrosion resistance steel, (Equivalent to SS316L) Suitable for Food Industries, Pharmaceuticals, Chemical application & Highly corrosive environment.				
Operating Voltage :	24AC	110AC	230AC	12DC	24DC
Power Consumption :	7W	8W	8W	10W	11W
Coil Features :	High Reliability Unaffected by Voltage Surges. Easy coil changes coil lockable in 4X90 position or freely movable in between as require.				
Coil Housing :	Epoxy square coil, Metallic round enclosure, IP-67 Flameproof enclosure, IP-68 Weatherproof enclosure.				
Optional Feature :	90% Power saver series also available, Manual Override, Water hammering reducer also available to avoid water hammer forces.				
Other Specification Data :	Available on Request.				

NOTE: Use of filter in the inlet port is recommended.

DIMENSION (NC)

All dimensions are in mm

Model No.	Port Size	Diagram No.	A	B	C	D	E	E1
PBN260	½"	15.1	60.50	82	69	38	28	33
PBN360	¾"	15.1	87	90	74	56	28	33
PBN460	1"	15.1	92	107	87	63	28	33
PBN660	1½"	15.1	120	123	96	83	28	33
PCNB8	4"	15.1	262	241	177	186.50	44	57



SECTION VIEW

TECHNICAL DATA

Model No.	Body Material	Pipe (Inch)	Orifice (mm)	Min. Operating Pressure Kg/cm ²	Max. Operating Pressure Kg/cm ²	Seal & Diaphragm Material	Flow Factor Kv m ³ / hr
PBN260	Brass	½"	12	0.30	10	NBR / EPDM / VITON	2.10
PBN360	Brass	¾"	20	0.30	10	NBR / EPDM / VITON	5.50
PBN460	Brass	1"	25	0.30	10	NBR / EPDM / VITON	9
PBN660	Brass	1½"	36	0.30	10	NBR / EPDM / VITON	17.10
PCNB8	CF8 / CF8M	4"	98	0.50	12	NBR / EPDM / VITON	115

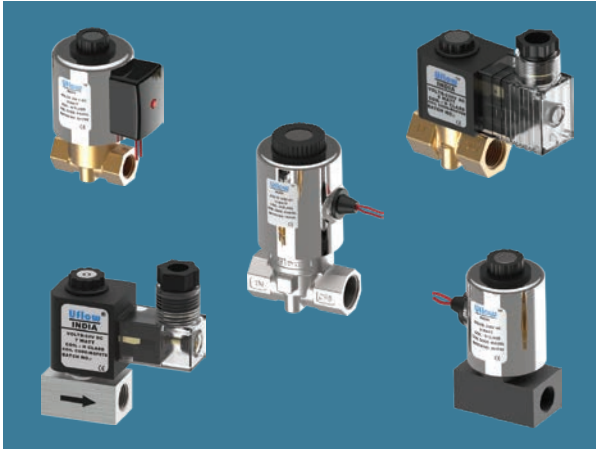
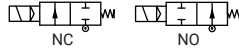
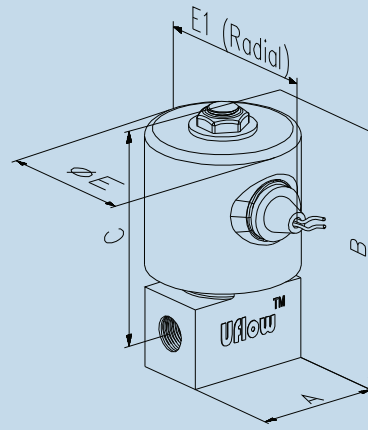


Diagram No. 16.1



SPECIFICATIONS

Port :	Refer below technical data sheet (Available BSP / NPT)				
End Connection :	Screwed				
Body Material :	SS ASTM A351 Grade CF8 / CF8M, Forged Brass, Aluminium				
Seal & 'O' Ring	Nitrile (NBR)	EPDM	Viton (FKM)	PTFE	
Media Temp :	-30° C to 90° C	-10° C to 140° C	-10° C to 180° C	-10° C to 180° C	
Circumstance Temp :	-10° C to 70° C				
Media :	Air, Chemical, Gas, Oil, Steam, Hot Water, Oil				
Main Features :	Internal Parts are in superior corrosion resistance steel, (Equivalent to SS316L) Suitable for Food Industries, Pharmaceuticals, Chemical application & Highly corrosive environment.				
Operating Voltage :	24AC	110AC	230AC	12DC	24DC
Power Consumption :	7W	8W	8W / 17W	10W	11W
Coil Features :	High Reliability Unaffected by Voltage Surges. Easy coil changes coil lockable in 4X90 position or freely movable in between as require.				
Coil Housing :	Epoxy square coil, Metallic round enclosure, IP-67 Flameproof enclosure, IP-68 Weatherproof enclosure.				
Optional Feature :	90% Power saver series also available.				
Other Specification Data :	Available on Request.				

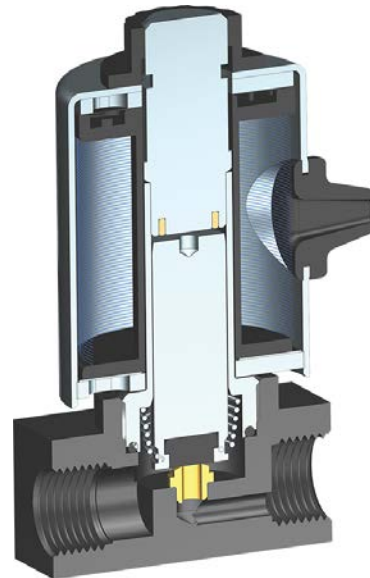
NOTE: Use of filter in the inlet port is recommended.

DIMENSION (NC)

All dimensions are in mm

Model No.	Port Size	Diagram No.	A	B	C	E	E1
DAN14	¼"	16.1	44.50	81	71	44	57
DBN14	¼"	16.1	43	83	74	44	57
DCN14	¼"	16.1	43	83	74	44	57
DBN74	¾"	16.1	48	88	75	44	57
DBN24	½"	16.1	48	88	75	44	57
DCN223	½"	16.1	61.50	109	96	44	57
DAN243	½"	16.1	65	102	88	44	57
DBN040	⅝"	16.1	38	56	47	28	33
DBN130M	¼"	16.1	34	69	46	28	33
DCN24	½"	16.1	48	91	79	44	57
DCN034	⅝"	16.1	27	50	43	21	51

*In Normally open valve Dimension B&C will increase up to 8mm.



SECTION VIEW

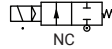
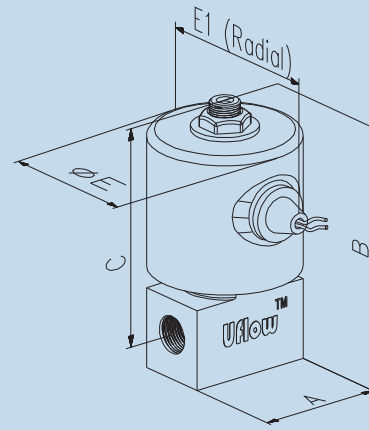
TECHNICAL DATA

Model No.	Body Material	Pipe (Inch)	Orifice (mm)		Min. Operating Pressure Kg/cm ²	Max. Operating Pressure Kg/cm ²	Seal & 'O' Ring Material	Flow Factor Kv m ³ / hr	
			NC	NO				NC	NO
DCN1D	CF8 / CF8M / BRASS / ALUMINUM	¼"	5	-	0	4	NBR / SI / FKM / EPDM	0.73	-
DCN2D	CF8 / CF8M / BRASS	½"	5	-	0	4	NBR / SI / FKM / EPDM	0.73	-
DBN7D	BRASS	¾"	5	-	0	4	NBR / SI / FKM / EPDM	0.73	-
DCN034	SS 304 / SS 316 / BRASS	⅝"	1.6	-	0	7	NBR / SI / FKM / EPDM	0.09	-
DBN040	BRASS	⅝"	2	-	0	10	NBR / SI / FKM / EPDM	0.11	-
DBN140	BRASS	¼"	2	-	0	10	NBR / SI / FKM / EPDM	0.11	-
DBN1D0M	BRASS	¼"	2.8	-	0	4	NBR / SI / FKM / EPDM	0.18	-
DCN14	CF8 / CF8M / BRASS	¼"	4	2.5	0	10	NBR / SI / FKM / EPDM	0.54	0.16
DCN24	CF8 / CF8M / BRASS	½"	4	2.5	0	10	NBR / SI / FKM / EPDM	0.54	0.16
DBN74	BRASS	¾"	4	2.5	0	10	NBR / SI / FKM / EPDM	0.54	0.16
DAN14	ALUMINUM	¼"	3	2.5	0	10	NBR / SI / FKM / EPDM	0.20	0.16
DAN243	ALUMINUM	½"	5	-	0	10	NBR / SI / FKM / EPDM	0.73	-
DCN223	CF8 / CF8M	½"	12	-	0	2	NBR / SI / FKM / EPDM	1.80	-
DCN15	CF8 / CF8M / BRASS	¼"	3	2.5	0	16	NBR / FKM / EPDM	0.20	0.16
DCN25	CF8 / CF8M / BRASS	½"	3	2.5	0	16	NBR / FKM / EPDM	0.20	0.16
DBN75	BRASS	¾"	3	2.5	0	16	NBR / FKM / EPDM	0.20	0.16
DAN15	ALUMINUM	¼"	2.5	1.8	0	16	NBR / FKM / EPDM	0.16	0.10
DCN1B	CF8 / CF8M / BRASS	¼"	2.5	1.8	0	25	NBR / FKM / EPDM	0.16	0.10
DCN2B	CF8 / CF8M / BRASS	½"	2.5	1.8	0	25	NBR / FKM / EPDM	0.16	0.10
DBN7B	BRASS	¾"	2.5	1.8	0	25	NBR / FKM / EPDM	0.16	0.10
DAN1B	ALUMINUM	¼"	2.2	1.8	0	25	NBR / FKM / EPDM	0.16	0.10
DCN1J	CF8 / CF8M / BRASS	¼"	2	1.3	0	40	NBR / FKM / EPDM	0.11	0.05
DCN2J	CF8 / CF8M / BRASS	½"	2	1.3	0	40	NBR / FKM / EPDM	0.11	0.05
DBN7J	BRASS	¾"	2	1.3	0	40	NBR / FKM / EPDM	0.11	0.05
DAN1J	ALUMINUM	¼"	1.8	1.3	0	40	NBR / FKM / EPDM	0.10	0.05
DCN1H	CF8 / CF8M / BRASS	¼"	1.8	1.3	0	60	NBR / FKM / EPDM	0.10	0.05
DCN2H	CF8 / CF8M / BRASS	½"	1.8	1.3	0	60	NBR / FKM / EPDM	0.10	0.05
DBN7H	BRASS	¾"	1.8	1.3	0	60	NBR / FKM / EPDM	0.10	0.05
DAN1H	ALUMINUM	¼"	1.5	1.3	0	60	NBR / FKM / EPDM	0.10	0.05
DCN1L	CF8 / CF8M / BRASS	¼"	1.8	1.3	0	100	NBR / FKM / EPDM	0.10	0.05
DCN2L	CF8 / CF8M / BRASS	½"	1.8	1.3	0	100	NBR / FKM / EPDM	0.10	0.05
DBN7L	BRASS	¾"	1.8	1.3	0	100	NBR / FKM / EPDM	0.10	0.05
DCN1C	CF8 / CF8M / BRASS	¼"	1.3	-	0	150	NBR / FKM / EPDM	0.05	-
DCN2C	CF8 / CF8M / BRASS	½"	1.3	-	0	150	NBR / FKM / EPDM	0.05	-
DBN7C	BRASS	¾"	1.3	-	0	150	NBR / FKM / EPDM	0.05	-

NOTE: Model number will change in case of normally open valve.



Diagram No. 18.1



SPECIFICATIONS

Port :

End Connection :

Body Material :

Seal & 'O' Ring

Media Temp :

Circumstance Temp :

Media :

Main Features :

Operating Voltage :

Power Consumption :

Coil Features :

Coil Housing :

Optional Feature :

Other Specification Data :

Refer below technical data sheet (Available BSP / NPT)

Screwed

SS ASTM A351 Grade CF8 / CF8M, Forged Brass, Aluminium

Nitrile (NBR)	EPDM	Viton (FKM)	PTFE
-30° C to 90° C	-10° C to 140° C	-10° C to 180° C	-10° C to 180° C

-10° C to 70° C

Air, Water, Chemical, Gas, Oil, Diesel, Kerosene, LPG.

Internal Parts are in superior corrosion resistance steel, (Equivalent to SS316L) Suitable for Food Industries, Pharmaceuticals, Chemical application & Highly corrosive environment.

24AC	110AC	230AC	12DC	24DC
7W	8W	8W	10W	11W

High Reliability Unaffected by Voltage Surges.
Easy coil changes coil lockable in 4X90 position or freely movable in between as require.

Epoxy square coil, Metallic round enclosure, IP-67 Flameproof enclosure, IP-68 Weatherproof enclosure.

90% Power saver series also available.

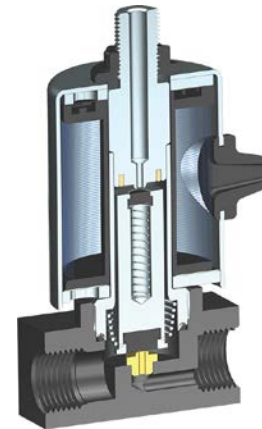
Available on Request.

NOTE: Use of filter in the inlet port is recommended.

DIMENSION

All dimensions are in mm

Model No.	Port Size	Diagram No.	A	B	C	E	E1
TAN14	¼"	18.1	44.50	87	77	44	57
TBN14	¼"	18.1	43	89	80	44	57
TCN14	¼"	18.1	43	88	79	44	57
TBN74	⅜"	18.1	48	93	80	44	57
TBN24	½"	18.1	48	93	80	44	57
TCN24	½"	18.1	48	93	80	44	57
TBN040	⅝"	18.1	38	60	51	28	33
TBN140	¾"	18.1	38	60	51	28	33
TBN034	⅞"	18.1	16	50	43	21	51



SECTION VIEW

TECHNICAL DATA

Model No.	Body Material	Pipe (Inch)	Orifice (mm)	Min. Operating Pressure Kg/cm ²	Max. Operating Pressure Kg/cm ²	Seal & 'O' Ring Material	Flow Factor Kv m ³ / hr
TAN14	ALUMINUM	¼"	1.50	0	10	NBR / SI / FKM / EPDM	0.07
TBN14	BRASS	¼"	1.50	0	10	NBR / SI / FKM / EPDM	0.07
TCN14	CF8 / CF8M	¼"	1.50	0	10	NBR / SI / FKM / EPDM	0.07
TBN74	BRASS	⅜"	1.50	0	10	NBR / SI / FKM / EPDM	0.07
TBN24	BRASS	½"	1.50	0	10	NBR / SI / FKM / EPDM	0.07
TCN24	CF8 / CF8M	½"	1.50	0	10	NBR / SI / FKM / EPDM	0.07
TBN040	BRASS	⅝"	1.20	0	10	NBR / SI / FKM / EPDM	0.042
TBN140	BRASS	¾"	1.20	0	10	NBR / SI / FKM / EPDM	0.042
TBN043	BRASS	⅞"	1.20	0	7	NBR / SI / FKM / EPDM	0.042

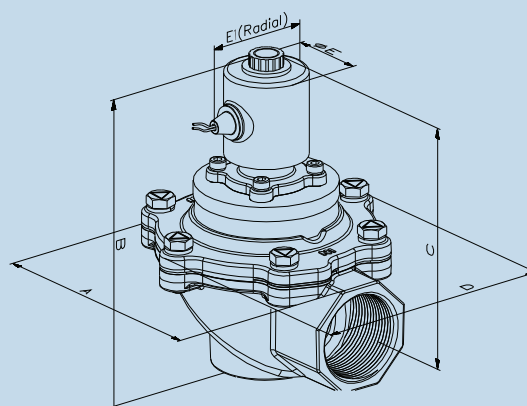
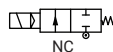


Diagram No. 19.1



SPECIFICATIONS

Port :	Refer below technical data sheet (Available BSP, NPT & Dresser Nut)
End Connection :	Screwed
Body Material :	Aluminum Die Cast
Diapharagm :	Nitrile (NBR)
Media Temp :	-10° C to 90° C
Circumstance Temp :	-10° C to 70° C
Media :	Air
Main Features :	Internal Parts are in superior corrosion resistance steel, (Equivalent to SS316L) Suitable for Air Pollution Control System, Bag Filter Machine
Operating Voltage :	24AC 110AC 230AC 12DC 24DC
Power Consumption :	7W 8W 8W 10W 11W
Coil Features :	High Reliability Unaffected by Voltage Surges. Easy coil changes coil lockable in 4X90 position or freely movable in between as require.
Coil Housing :	Epoxy square coil, metallic round enclosure, IP-67 Flameproof enclosure, IP-68 Weatherproof enclosure.
Optional Feature :	90% Power saver series also available
Other Specification Data :	Available on Request - Brass silencer to reduce extra noise

DIMENSION

All dimensions are in mm

Model No.	Port Size	Diagram No.	A	B	C	D	E	E1
JAN47	1"	19.1	89	133.80	114.50	94	44	57
JAN67	1½"	19.1	137	171.50	135	136	44	57



SECTION VIEW

NOTE: Use of filter in the inlet port is recommended.

TECHNICAL DATA

Model No.	Body Material	Pipe (Inch)	Orifice (mm)	Min. Operating Pressure Kg/cm ²	Max. Operating Pressure Kg/cm ²	Seal & Diaphragm Material	Flow Factor Kv m ³ / hr
JAN47	Aluminium	1"	28.50	0.5	8.5	NBR	16
JAN67	Aluminium	1½"	51	0.5	8.5	NBR	40

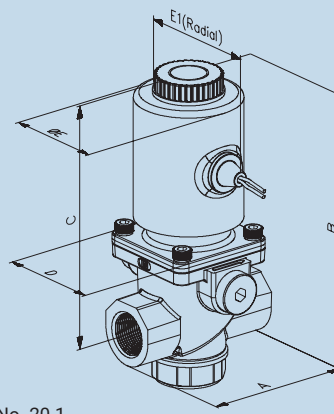


Diagram No. 20.1

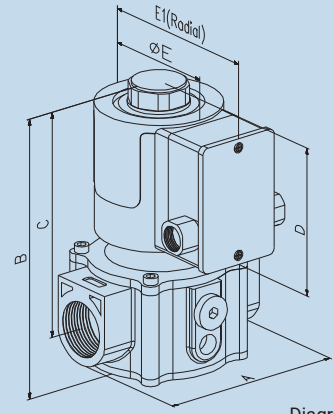
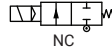


Diagram No. 20.2



SPECIFICATIONS

Port :	Refer below technical data sheet (Available BSP)			
End Connection :	Screwed			
Body Material :	Aluminum Pressure Die Cast			
Diaphragm :	Nitrile (NBR)			
Media Temp :	-10° C to 60° C			
Circumstance Temp :	-30° C to 70° C			
Media :	Air, Natural Gas, Town Gas, Air.			
Main Features :	Flow adjustment, Opening time adjustment, Quick release initial flow adjustment			
Operating Voltage :	110AC	230AC	12DC	24DC
Power Consumption :	30W	30W	30W	30W
Coil Features :	High Reliability Unaffected by Voltage Surges. Easy coil changes coil lockable in 4X90 position or freely movable in between as require.			
Coil Housing :	Epoxy square coil.			
Other Specification Data :	Available on Request.			

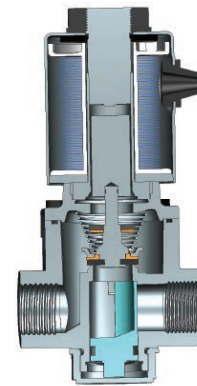
NOTE: Use of filter in the inlet port is recommended.

- ☑ Coils are conforming as per IEC-60335-1 with derivatives (LVD / EMC).
- ☑ Gas Solenoid Valve complies as per EN-161 requirement.

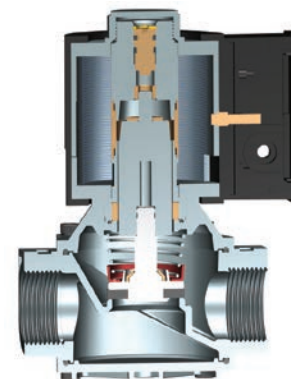
DIMENSION

All dimensions are in mm

Model No.	Port Size	Diagram No.	A	B	C	D	E	E1
DAN213	½"	20.1	72	147	118	70	50	62
DAN408	1"	20.2	108.50	164.50	130.50	85	74	105



DAN213



DAN408

SECTION VIEW

TECHNICAL DATA

Model No.	Body Material	Pipe (Inch)	Orifice (mm)	Min. Operating Pressure mbar	Max. Operating Pressure mbar	Seal & Diaphragm Material	Flow Factor Kv m³ / hr
DAN213	Aluminium	½"	15	0	500	NBR	4
DAN408	Aluminium	1"	30	0	350	NBR	13

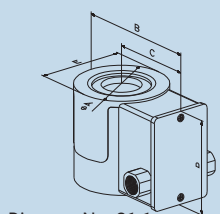
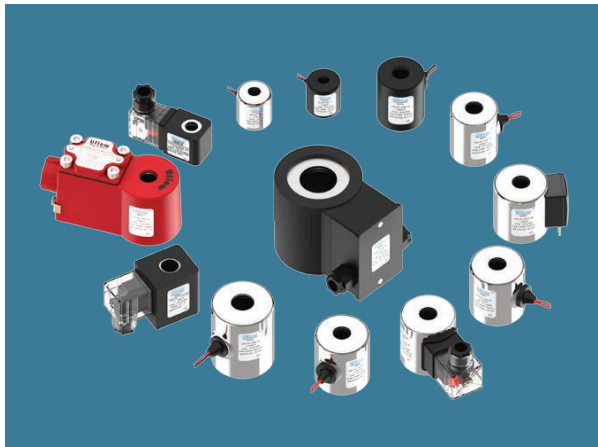


Diagram No. 21.1

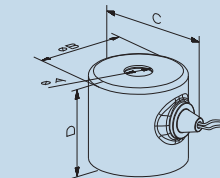


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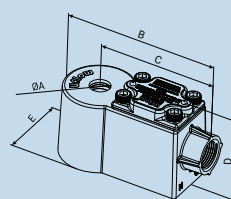


Diagram No. 21.2

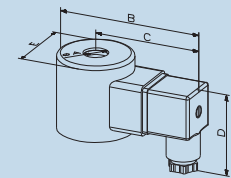


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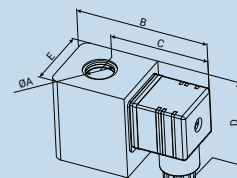


Diagram No. 21.3

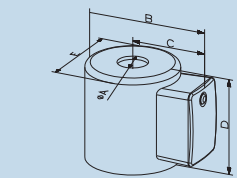


Diagram No. 21.6

SPECIFICATIONS

Coil Type :	Epoxy Moulded With LED Din Connector, Metallic Round Shape With Lead Wire Continuous Duty, IP-67 Flame Proof Coil Enclosure, IP-68 Weather Proof Coil Enclosure				
Coil Bore Diameter :	8mm, 10mm, 14mm, 16mm, 18mm, 30mm				
Class :	H-Class, Weather Proof IP-68, Flame Proof IP-67				
Voltage :	24AC	110AC	230AC	12DC	24DC
Watt :	7W	8W / 30W	8W / 17W / 30W	10W / 30W	11W / 30W
Duty :	100%				
Main Features :	Surge Suppresors for High Wattage Coil. 90% Power saver series also available, Latching Coil.				
Latching Coil Benefits :	<input checked="" type="checkbox"/> Remote or Battery operated application <input checked="" type="checkbox"/> A situation where a valve needs to be open/actuated for an extended period of time <input checked="" type="checkbox"/> When heat rise occurs from the coil being constantly energized to maintain its position is an unacceptable side effect in your application.				
	End connections in Flame Proof Coils are available in				
	- ½" NPT				
	- ¾" NPT				
	- M20 X 1.5				

DIMENSION

All dimensions are in mm

Type	Diagram No.	A	B	C	D	E
Epoxy Moulded Round Coil	21.1	30.50	105	69	75	71
Flame proof Coil Enclosure	21.2	14.50	112	86	62.50	52
Epoxy Moulded With LED Din Connector	21.3	14.50	71	53	49	35.50
Epoxy Moulded With LED Din Connector	21.3	10.30	65	52	46	26
Metallic Round Shape With Lead Wire	21.4	14.50	44	57	47.50	-
Metallic Round Shape With Lead Wire	21.4	10.30	28	33.5	30	-
Metallic Round Shape LED Din Connector	21.5	14.50	85	62.50	50	44
Epoxy Moulded With LED Din Connector	21.3	18.50	84.2	57	58	54
Metallic Round Shape With Lead Wire	21.4	18.50	50	62	60.50	-
Metallic Round Shape Power Saver	21.6	14.50	61.30	39	49.00	44

We Are Introducing New Power Saver Series (VA Series) Served by Our R&D Department, This New Latest Technology Saves Up to 90% of Power.

BENEFITS:

- ✓ Reduce Battery Drain ✓ Reduce Wiring Cost ✓ Reduce Temperature Rise
- ✓ Energy Savings ✓ Improve Valve Performance at High Pressure ✓ Low Wattage

- ☒ Weatherproof coils are conforming as per IE/IEC-60529-2001 (Approved by ERDA) (IP-67).
- ☒ Flame Proof Coils conforming as per Is/IEC-60079-1:2007 (Approved by CIMFR).
- ☒ Coils are suitable for IIC Atmosphere Condition (Zone 1&2 Gas Group).
- ☒ Flame Proof Series are followed under BIS.
- ☒ For Flame Proof Condition Working Environment Coils are licensed under PESO.

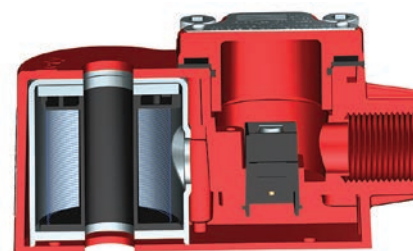
COIL IDENTIFICATION CHART

F A I 09 H									
COIL HOUSING	VOLTAGE	COIL BORE	WATTAGE	CONNECTION					
R Round	A 230V AC	F 08 mm	00 00.00	S Socket					
M Epoxy	B 24V AC	G 10 mm	01 01.00	L Lead Wire					
W Weather Proof	C 42V AC	H 13 mm	02 02.00	H ½" NPT					
F Flame Proof	D 48V AC	I 14 mm	03 03.00	M M20 X 1.5					
P Power Saver	E 110V AC	J 16 mm	04 04.00	T ¾" NPT					
	F 12V DC	K 18 mm	05 05.00						
	G 24V DC	L 20 mm	06 06.00						
	J 230V FAC	M 22 mm	07 07.00						
	M 24V FAC	N 24 mm	08 08.00						
	N 415V AC	O 26 mm	09 09.00						
	O 36V DC	P 28 mm	10 10.00						
	P 110V FAC	Q 30 mm	11 11.00						
	Q 110V DC		12 12.00						
	R 48V DC		...						
			33 33.00						



POWER SAVER SERIES

PRODUCT IMAGE



FLAME PROOF COIL ENCLOSURE

SECTION VIEW

TESTING FACILITIES

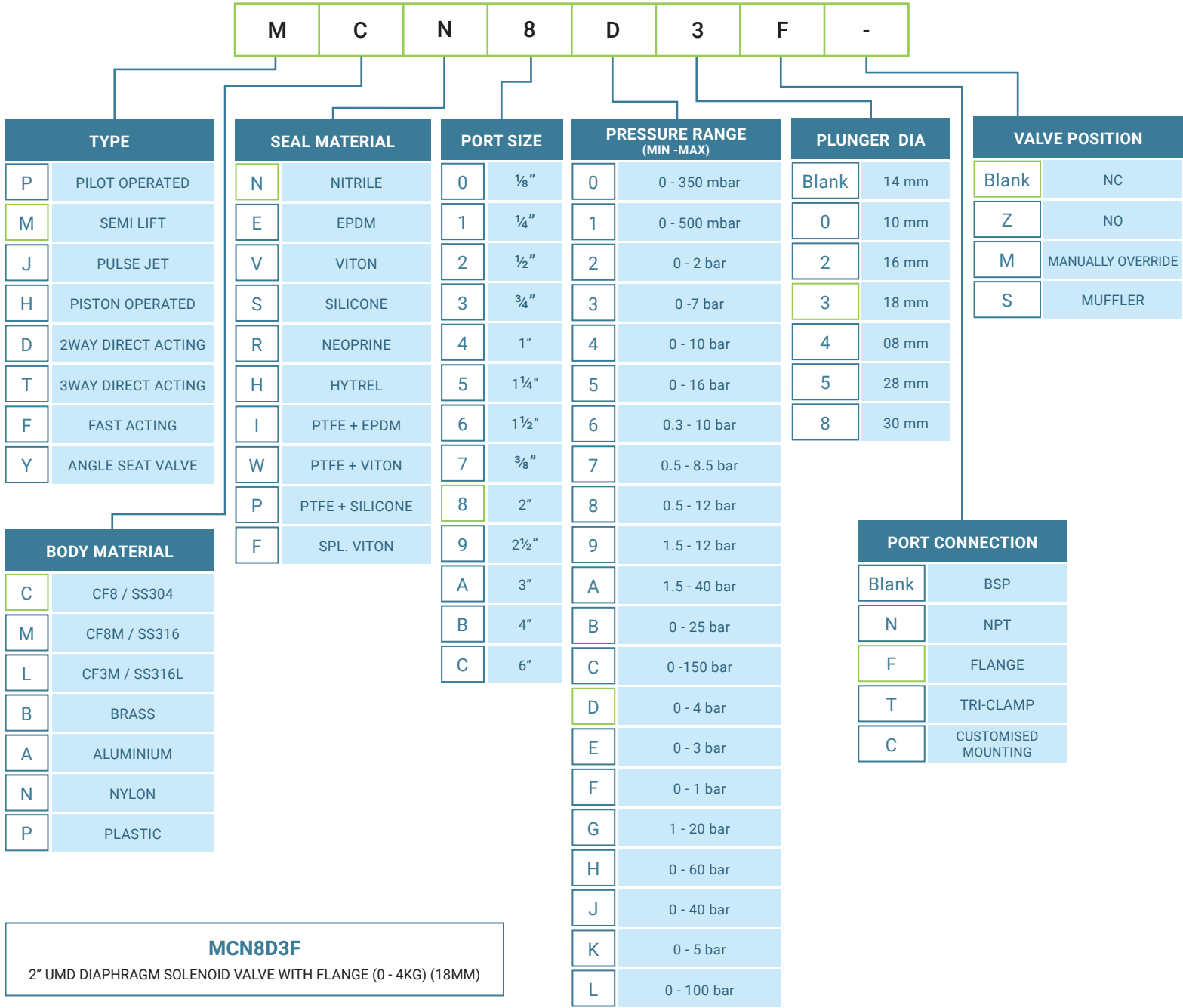
Routing Test

- ☒ Body and Seat Leakage Test
- ☒ Pick up Drop Down Test
- ☒ Di-Electric Test
- ☒ Insulation Resistance Test

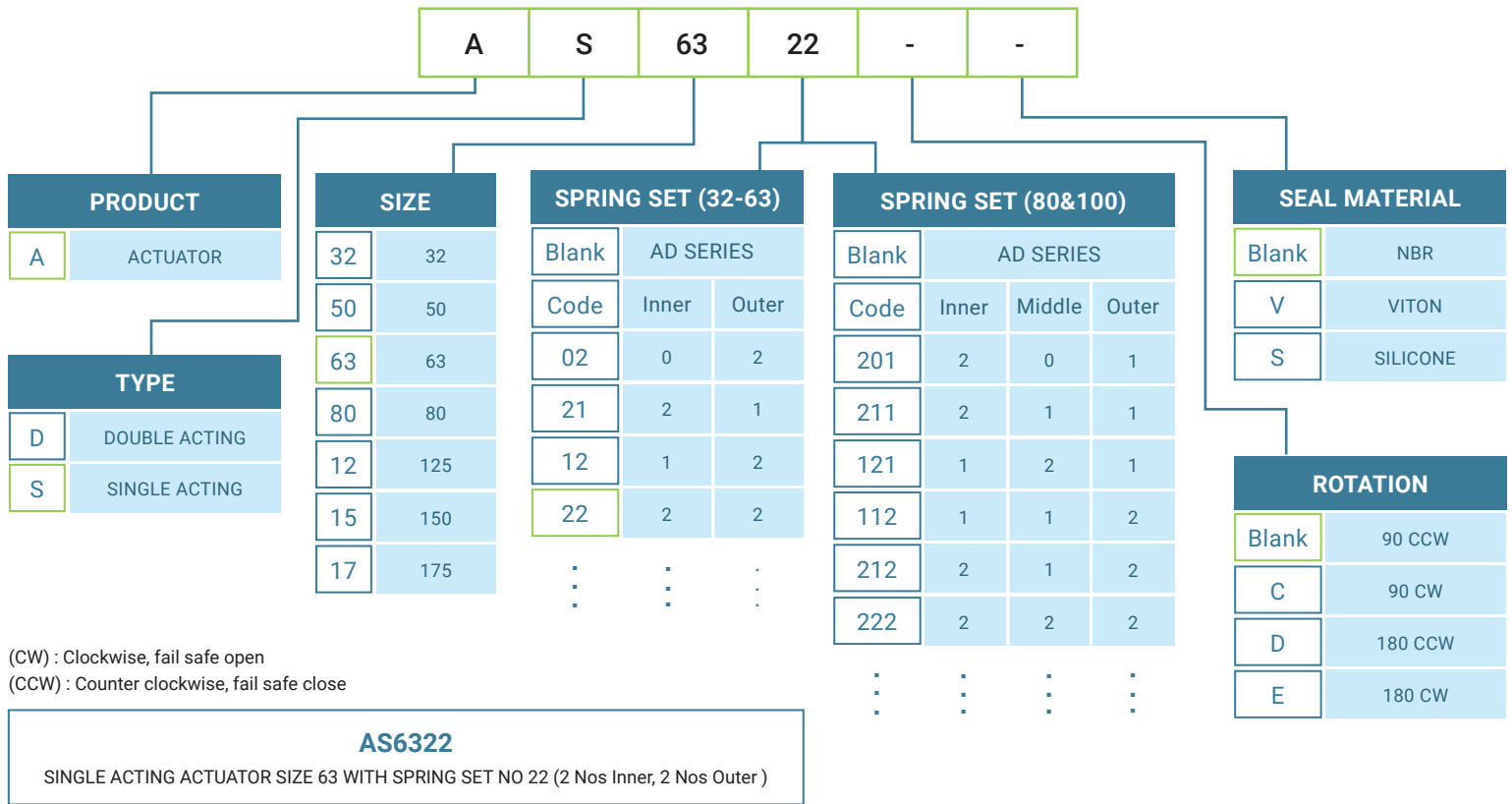
Special Test we Offer

- ☒ Flow Test
- ☒ Hydro Test
- ☒ Seismic Test
- ☒ Burning Test
- ☒ Temperature Test
- ☒ Helium Test
- ☒ Accelerated Ageing Test
- ☒ LOCA Simulation Test
- ☒ Radiation Qualification Test

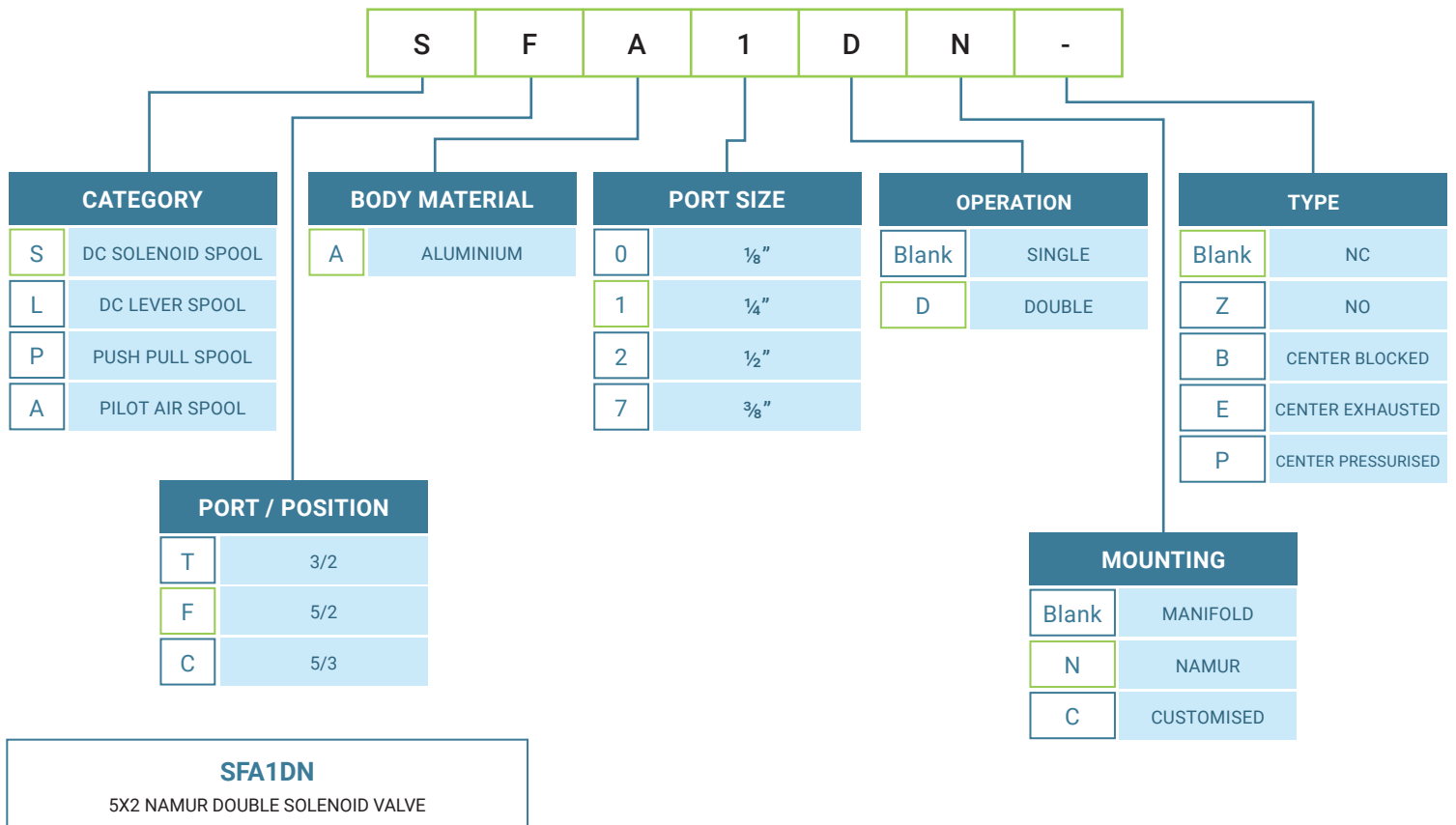
SOLENOID VALVE MODEL IDENTIFICATION CHART



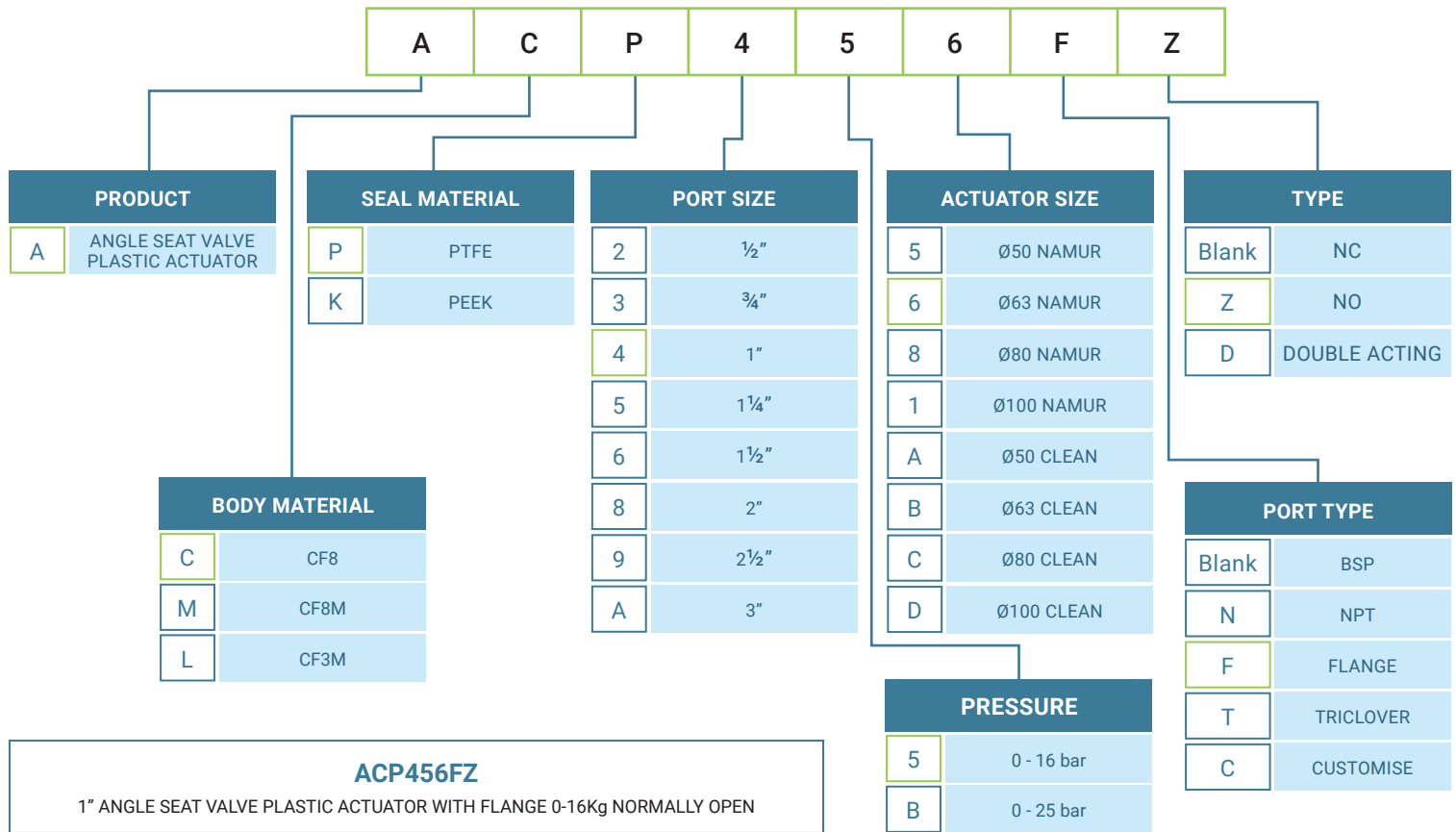
ACTUATOR MODEL IDENTIFICATION CHART



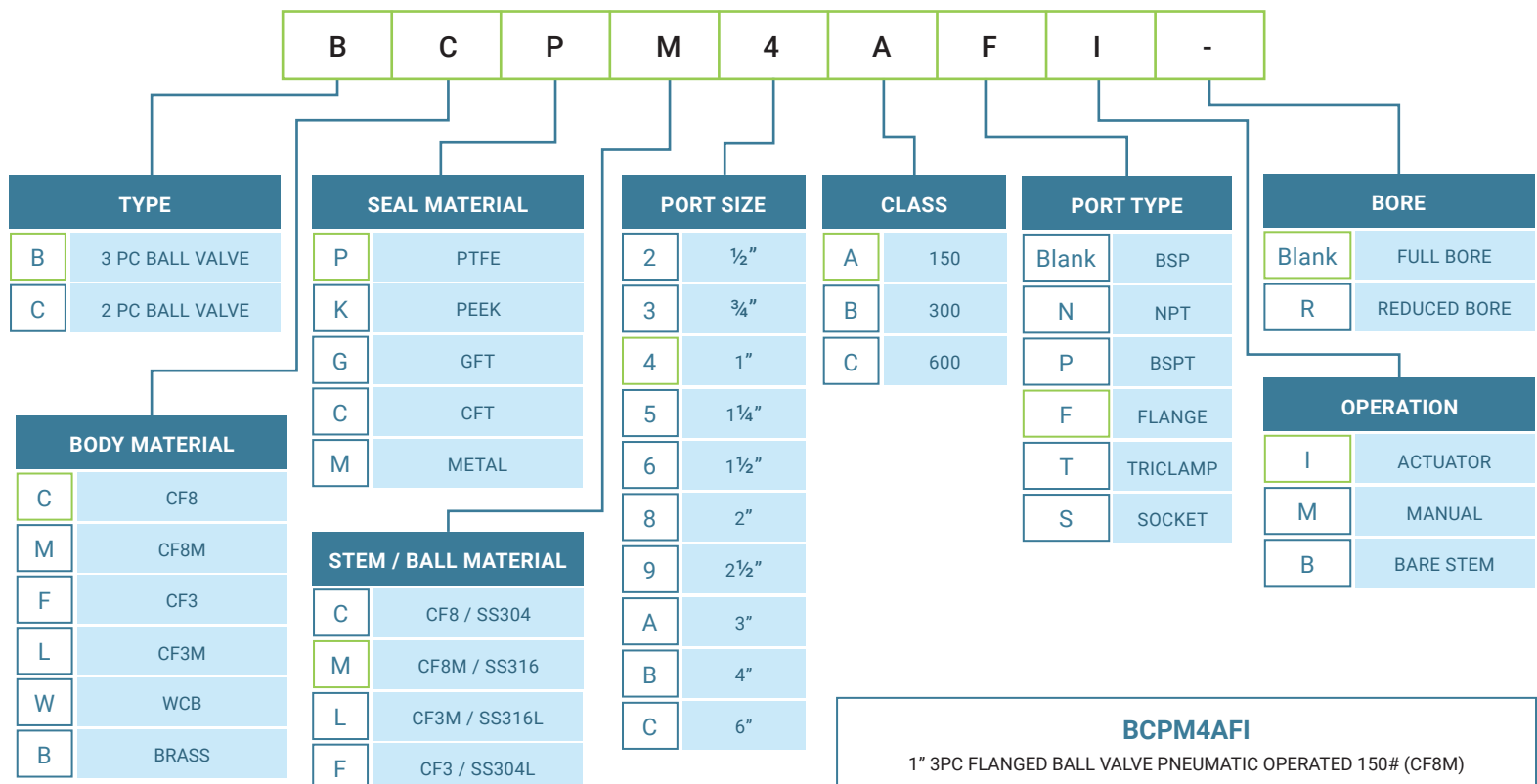
PNEUMATIC DIRECTIONAL CONTROL VALVE MODEL IDENTIFICATION CHART



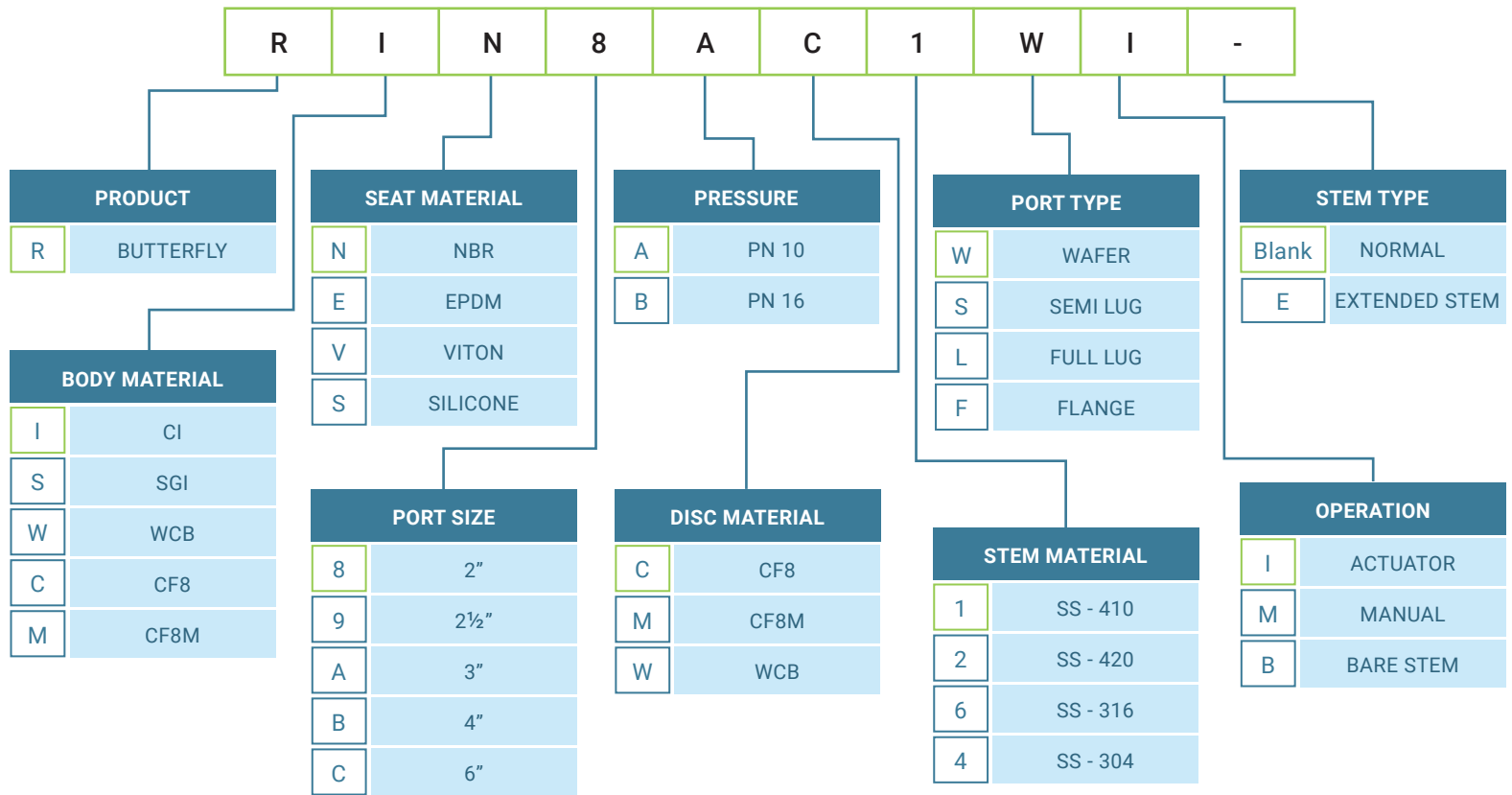
ANGLE SEAT VALVE PLASTIC ACTUATOR MODEL IDENTIFICATION CHART



BALL VALVE MODEL IDENTIFICATION CHART



BUTTERFLY VALVE MODEL IDENTIFICATION CHART

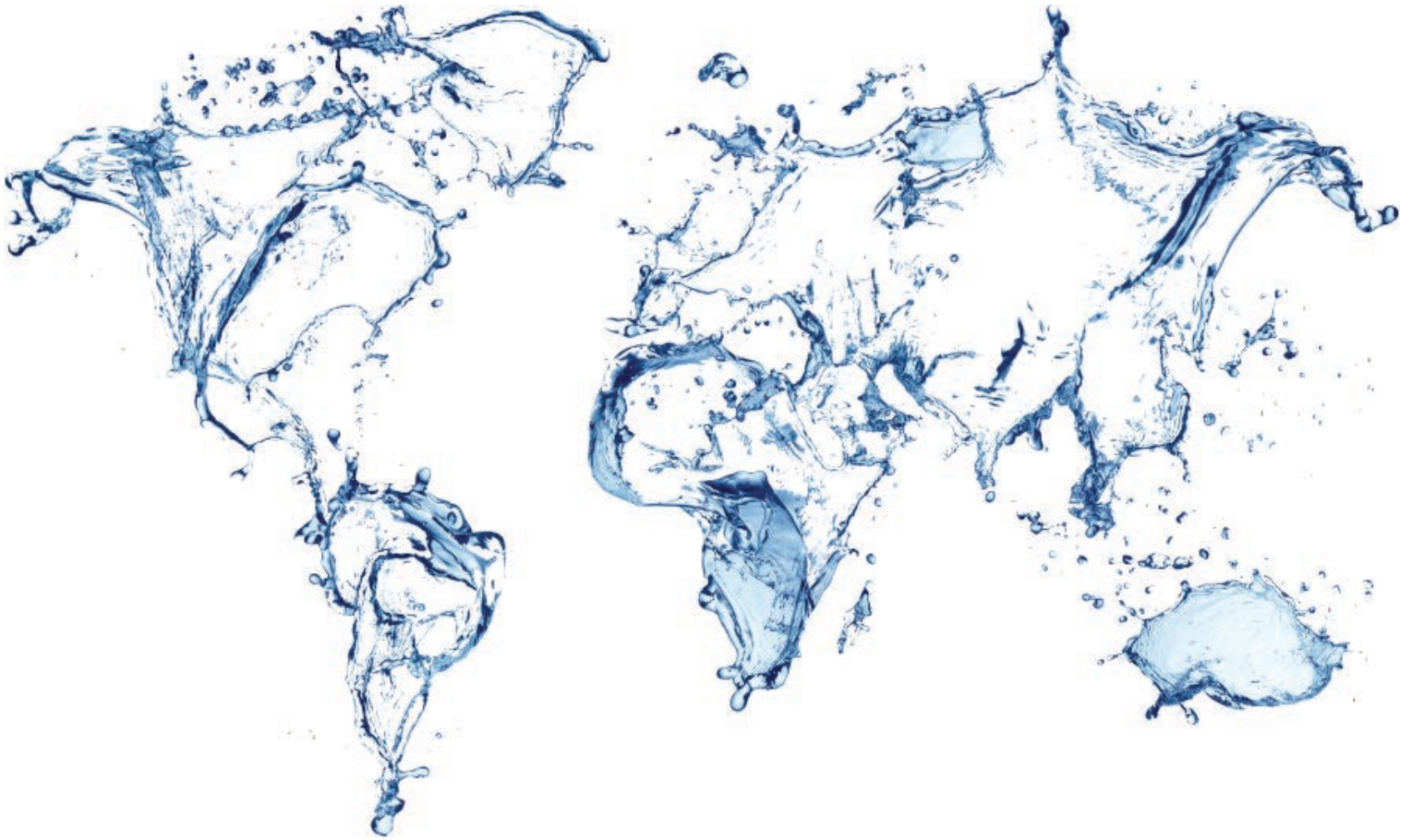


RIN8AC1WI

2" BUTTERFLY VALVE PNEUMATIC OPERATED PN 10 (SS-410)

OUR CLIENTS





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Phone No : +91-2827-254343 | Cell : +91 89059 07070

E-mail : info@uflowvalve.com | Website : www.uflowvalve.com