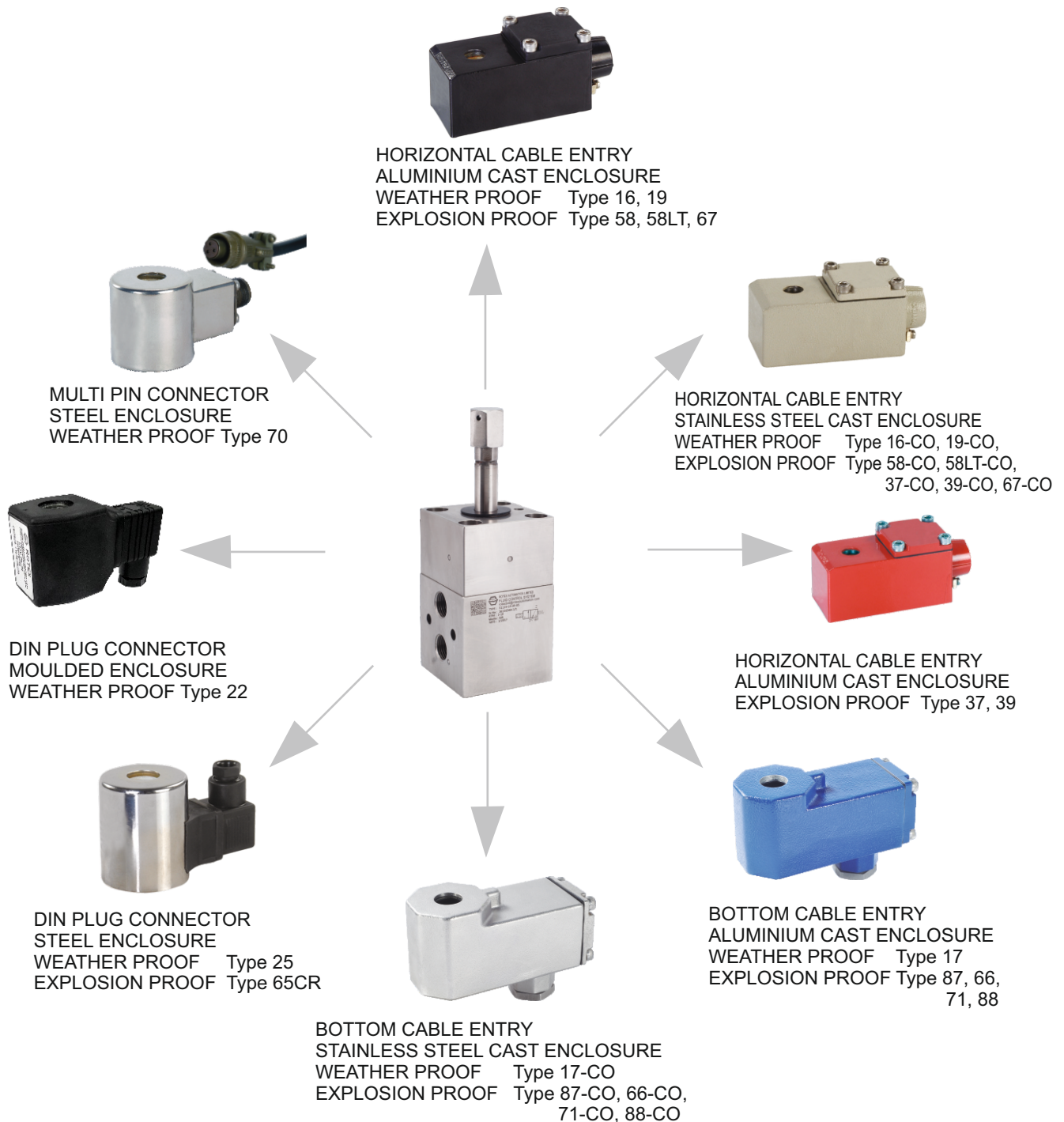


3/2 INTERNAL/ EXTERNAL PILOT OPERATED, NORMALLY CLOSED/ OPEN SOLENOID VALVE

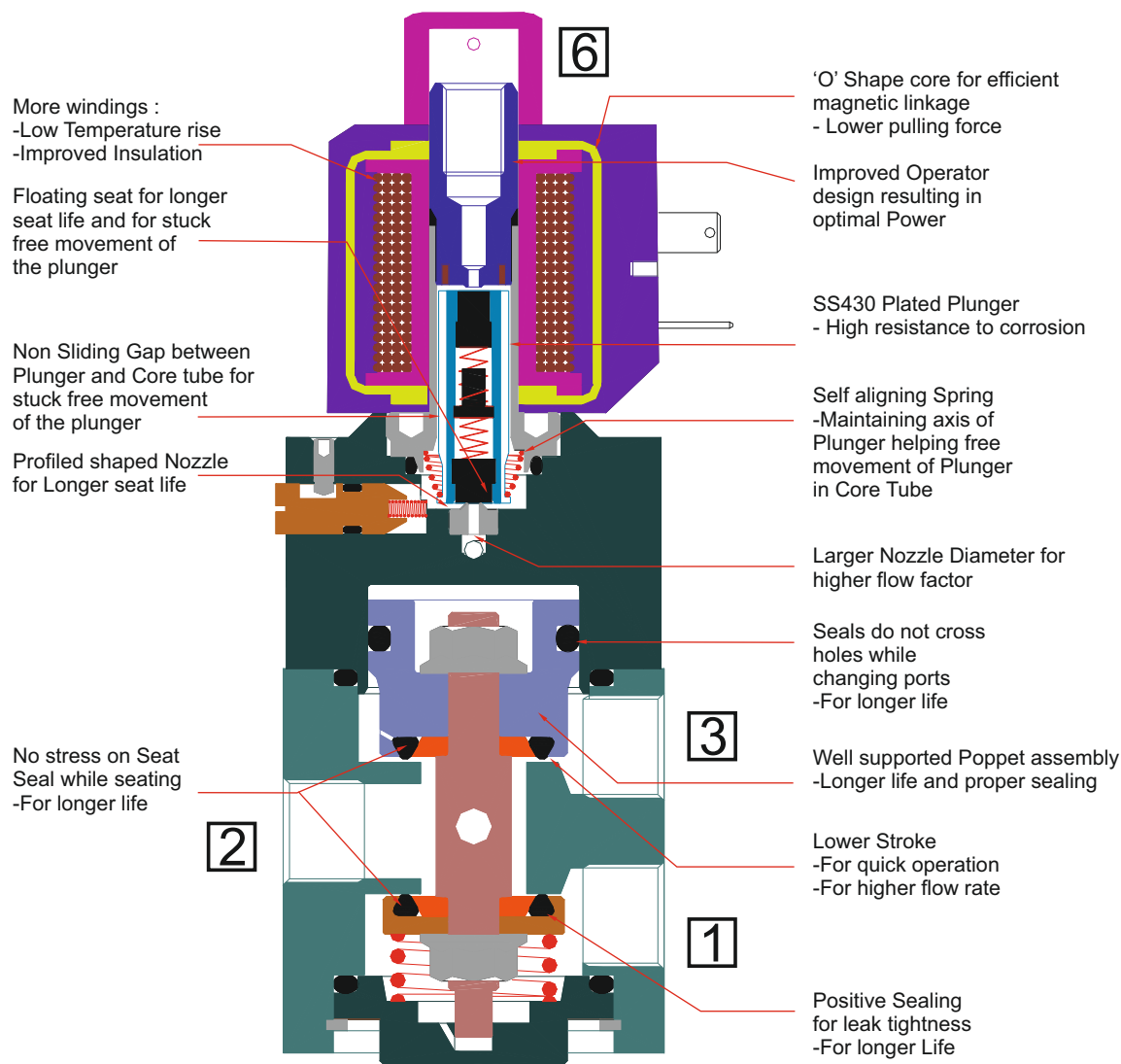


**Interchangeable across
Voltage/ Current range without
affecting performance of the Valve**

3/2 INTERNAL/ EXTERNAL PILOT OPERATED, NORMALLY CLOSED/ OPEN SOLENOID VALVE

FEATURES

- Bubble tight shut OFF
- Mounts in any position
- Vibration resistance up to 9g
- Suitable for high speed cycling, speed upto 600 cycles/ min
- Life >20 million cycles
- 360° Swivellable solenoid for ease of cable routing



VOLTAGE VARIATION

(For Continuous Duty)

Rated Voltage	Operating Voltage
6	4.8V to 7.2V
12	9.6V to 14.4V
24	19.2V to 28.8V
48	38.4V to 57.6V
110 to 120	88V to 132V
220/ 230/ 240	176V to 264V
256	205V to 280V

WEIGHT IN Kg. (lbs) (Appx.)

Valve

Orifice - Port Connection	Al	Brass	SS316
7-2G/ 2R	0.70 (1.54)	1.55 (3.41)	1.60 (3.52)
7-3G/ 3R/ 4G/ 4R	0.80 (1.76)	1.40 (3.08)	1.80 (3.96)
10-3G/ 3R	1.10 (2.42)	2.85 (6.28)	2.60 (5.73)
10-4G/ 4R	1.30 (2.86)	3.55 (7.82)	3.30 (7.27)
16-4G/ 4R	2.60 (5.73)	5.70 (12.56)	5.40 (11.90)
20-6G/ 6R	2.80 (6.17)	-	6.80 (14.99)
25-8G/ 8R	3.30 (7.27)	-	9.00 (19.84)

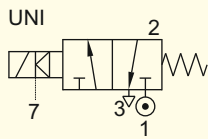
Solenoid

Type	Size	Kg (lbs)
22	I	0.25 (0.55)
25, 65CR	II	0.45 (0.99)
	III	0.40 (0.88)
	IV	0.50 (1.10)

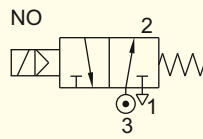
Type	Size	Enclosure	
		AL	SS
16, 19, 37, 39, 58, 58LT, 67	II, IV	0.85 (1.87)	1.70 (3.74)
	III	0.60 (1.32)	1.50 (3.30)
	II, IV	1.00 (2.20)	1.65 (3.63)
71, 87, 88	III	0.90 (1.98)	1.50 (3.30)

SERIES : 32P

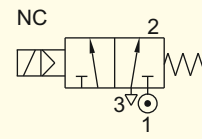
3/2 INTERNAL/ EXTERNAL PILOT OPERATED, NORMALLY CLOSED/ OPEN SOLENOID VALVE



TYPE	PRESSURE bar (psi)
32301	0 - 20 (0 - 290)
P3006	0 - 10 (0 - 150)
P3008	0 - 8 (0 - 116)
I3004	0 - 11 (0 - 159)



TYPE	PRESSURE bar (psi)
31209	2 - 10 (29 - 150)
31210	3 - 20 (45 - 290)
31210EP	3 - 40 (45 - 580)
31206	3 - 40 (45 - 580)
P3003	2 - 10 (29 - 150)
P3009	2 - 8 (29 - 116)
I3005	2 - 11 (29 - 159)



TYPE	PRESSURE bar (psi)
31119	2 - 10 (29 - 150)
31120	3 - 20 (45 - 290)
31120EP	3 - 40 (45 - 580)
31121	3 - 40 (45 - 580)
P3001	2 - 10 (29 - 150)
P3007	2 - 8 (29 - 116)
I3003	2 - 11 (29 - 159)
3068	2 - 10 (29 - 150)

WETTED PARTS

Code	✕	B1	B2	B5	B17
Body	Anodized Aluminium	Anodized Aluminium	Brass	SS316	Brass Forged
Internals	Aluminium, Brass and SS316	SS316	Brass and SS316	SS316	Brass and SS316
Guide	SS304				
Shadow-Ring	Copper / None				
Plunger, Insert	SS430				
Spring/ Circlip	SS302 / Steel				
Fasteners	SS304				
Seat, Seals	NBR, Viton, F.Silicon				

APPLICATION

Actuation of Control Valve/ Single acting Actuator/ Cylinder

POWER

Type	Normal		Low		Ex ia	
	13W	6W/ 8W	2W	1W	Type : 66	Type : 65CR, 67, 71
Size	II	I/ III	I/ III	III	III	III
Type	31121, 31206	31119, 31209 31120, 31210 32301, 31120EP, 31210EP, 3068	P3001, P3003, P3006	P3007, P3008, P3009	31119, 31209 31120, 31210 32301, 31120EP 31210EP	I3003, I3004, I3005

Contact Rotex for
• Any other Temperature Range, Media and Application



PESO



KOSHA



NACE
MR 0175-1

SPARES

SPARE KIT	CODE
Seal Kit : Oring Set and Plunger Assembly	98
Seal Kit : Oring Set (only for Intrinsically Safe Valve)	P98
Repair Kit : All Components except Body, Cover and Solenoid	99
Solenoid Kit : Solenoid, Gasket and Nut	34

PORT CONNECTION

VALVE TYPE	MODE	INLET	OUTLET	EXHAUST	PILOT EXHAUST	EXTERNAL PILOT INLET
31119, 31120, 31120EP, 31121, P3001, P3007, I3003, 3068	NC	1	2	3	6	
31209, 31210, 31210EP, 31206, P3003, P3009, I3005	NC	3	2	1	6	
32301, P3006, P3008, I3004	NC	1	2	3	6	7
	NC	3	2	1	6	7



The pressure drop at inlet port can result in malfunctioning of the valve. Caution needs to be taken that all equipment connected between header & inlet port should have higher orifice/ kv value as compared to orifice of the selected valve. Excessive blockage of exhaust port can lead to malfunction of the solenoid valve.

3/2 INTERNAL/ EXTERNAL PILOT OPERATED, NORMALLY CLOSED/ OPEN SOLENOID VALVE

SPECIFICATION

VALVE		SOLENOID	
Valve Type	3/2 Internal / External Pilot Operated, Normally Closed / Open Solenoid Valve	Voltage -Current	DC 12V, 24V, 48V, 110V, 220V, 256V
Body Material	Aluminium / Brass / SS316 / Brass Forging		AC (50Hz / 60Hz) 24V, 110V, 120V, 230V, 240V
Port Connection	1/4", 3/8", 1/2", 3/4", 1"		AC / DC (50Hz / 60Hz / DC) 24V, 110V, 120V, 230V, 240V
Orifice	7mm (9/32") / 10mm (3/8") / 16mm (5/8") / 20mm (3/4") / 25mm (1")	Power	13W / 8W / 6W / 2W / 1W
Seals	NBR / Viton / F. Silicon	Protection	Weather Proof IP67 Explosion Proof Ex d, Ex ia, Ex e mb, IIC, T6 / T5 / T4 IP67
Manual Override	Stayput / Momentary / Without Manual Override	Cable Entry	Pg9 / M20 X 1.5 / 1/2" NPT / M25 X 1.5
Flow factor Orifice - kv / Kv / Cv	6mm (1/4") - 12 / 0.7 / 0.8 7mm (9/32") - 18 / 1.1 / 1.3 10mm (3/8") - 38 / 2.3 / 2.7 16mm (5/8") - 75 / 4.5 / 5.3 20mm (3/4") - 110 / 6.6 / 7.7 25mm (1") - 185 / 11.1 / 13		
Media	Air / Inert Gas		
Ambient - Fluid Temperature	-25 °C to 75 °C, Optionally -60 °C to 170 °C (-13 °F to 167 °F, Optionally -76 °F to 338 °F)		
Response ON / OFF	≤ 20ms / ≤ 30ms Orifice 7mm, 10mm ≤ 50ms / ≤ 80ms Orifice 16mm, 20mm, 25mm		
Pressure	2 - 8 bar (29 - 116 psi) 2 - 10 bar (29 - 116 psi) 2 - 20 bar (29 - 290 psi) 2 - 40 bar (29 - 580 psi) 0 - 8 bar (0 - 116 psi) 0 - 10 bar (0 - 150 psi) 0 - 20 bar (0 - 290 psi)		

ORDERING CODE Solenoid Valve (Valve Code + Solenoid Code)

VALVE TYPE	-	SIL	-	SUFFIX	-	ORIFICE-PORT CONNECTION	-	BODY INTERNAL	-	MANUAL OVERRIDE	-	SEAL	-	⑦ MEDIA				
31119		SL		※		7-2G		B2		※		S2G		※				
-		ACCESSORIES VALVE, PORT	+	SIZE	-	VOLTAGE, CURRENT	-	ENCLOSURE	-	⑦ MTL	-	SPECIAL	-	POWER	-	INSULATION	-	APPROVAL
		A4		III		24V DC		87NS		CO		※		※		H		01
-		SIL	+	ACCESSORIES SOLENOID														
		SL		B4														

ORDERING CODE Valve Spare Kit

SPARE KIT	VALVE TYPE	SIL	SUFFIX	ORIFICE-PORT CONNECTION	BODY INTERNAL	MANUAL OVERRIDE
99	31119	SL	*	7-2G	B2	*
SEAL	ACCESSORIES VALVE, PORT					
S2G	A4					

ORDERING CODE Spare Solenoid

SOLENOID KIT	SIZE	VOLTAGE, CURRENT	ENCLOSURE	MTL	SPECIAL	POWER	INSULATION	APPROVAL
34	III	24V DC	87NS	CO	*	*	H	01
SIL	+	ACCESSORIES SOLENOID						
SL		B4						

3/2 INTERNAL/ EXTERNAL PILOT OPERATED, NORMALLY CLOSED/ OPEN SOLENOID VALVE

VALVE TYPE-ORIFICE			
NORMALLY CLOSED	NORMALLY OPEN	EXTERNAL PILOT	DESCRIPTION
NORMAL POWER			
31119	31209		2 - 10 bar (29 - 150 psi), 8 Watt, size I/ III
	3068		2 - 10 bar (29 - 150 psi), 8 Watt, size I/ III
31120	31210		2 - 20 bar (29 - 290 psi), 8 watt, size I/ III
		32301	0 - 20 bar (0 - 290 psi), 8 Watt, Pilot Pressure ≥ Main fluid Pressure or Minimum 2 bar (29 psi) whichever is higher
31120EP	31210EP		3 - 40 bar (45 - 580 psi), 8 Watt, Size III
31121	31206		3 - 40 bar (45 - 580 psi), 13 Watt, Size II
LOW POWER			
P3001V01	P3003V01		2 - 10 bar (29 - 150 psi), 2 Watt
		P3006V01	0 - 10 bar (0 - 150 psi), 2 Watt, Pilot Pressure ≥ Main fluid Pressure or Minimum 2 bar (29 psi) whichever is higher
⑪ P3001V01	⑪ P3003V01		2 - 10 bar (29 - 150 psi), 0.4 Watt, Size III, Power LB04
		⑪ P3006V01	0 - 10 bar (0 - 150 psi), 0.4 Watt, Size III, Power LB04, Pilot Pressure ≥ Main fluid Pressure or Minimum 2 bar (29 psi) whichever is higher
P3007	P3009		2 - 8 bar (29 - 116 psi), 1 Watt, Size III, Power LW1
		P3008	0 - 8 bar (0 - 116 psi), 1 Watt, Size III, Power LW1, Pilot Pressure ≥ Main fluid Pressure or Minimum 2 bar (29 psi) whichever is higher
INTRINSICALLY SAFE Ex ia 24V DC			
31119	31209		2 - 10 bar (29 - 150 psi), Enclosure Type 66, Size III
31120	31210		2 - 20 bar (29 - 290 psi), Enclosure Type 66, Size III
		32301	0 - 20 bar (0 - 290 psi), Enclosure Type 66, Size III, Pilot Pressure ≥ Main fluid Pressure or Minimum 2 bar (29 psi) whichever is higher
31120EP	31210EP		3 - 40 bar (45 - 580 psi), Enclosure Type 66, Size III
I3003V01	I3005V01		2 - 11 bar (29 - 159 psi), Enclosure Type 65CR, 67, 71, Size III
		I3004V01	0 - 10 bar (0 - 150 psi), Enclosure Type 65CR, 67, 71, Size III, Pilot Pressure ≥ Main fluid Pressure or Minimum 2 bar (29 psi) whichever is higher

SIL CERTIFIED	
CODE	DESCRIPTION
① ✖	NO
SL	YES

SUFFIX	
CODE	DESCRIPTION
① ✖	NIL
⑧ AM	Ammonia

ORIFICE-PORT CONNECTION		
CODE	DESCRIPTION	
	ORIFICE	PORT
6-2G	6mm (1/2")	1/4" BSP
6-2R	6mm (1/2")	1/4" BSP
7-2G	7mm (9/32")	1/4" BSP
7-2R	7mm (9/32")	1/4" NPT
7-3G	7mm (9/32")	3/8" BSP
7-3R	7mm (9/32")	3/8" NPT
7-4G	7mm (9/32")	1/2" BSP
7-4R	7mm (9/32")	1/2" NPT
⑫ 10-3G	10mm (3/8")	3/8" BSP
⑫ 10-3R	10mm (3/8")	3/8" NPT
⑫ 10-4G	10mm (3/8")	1/2" BSP
⑫ 10-4R	10mm (3/8")	1/2" NPT
16-4G	16mm (5/8")	1/2" BSP
16-4R	16mm (5/8")	1/2" NPT
20-6G	20mm (3/4")	3/4" BSP
20-6R	20mm (3/4")	3/4" NPT
25-8G	25mm (1")	1" BSP
25-8R	25mm (1")	1" NPT

BODY MATERIAL		ORIFICE				
CODE	DESCRIPTION	7	10	16	20	25
① ✖	Aluminium	✓	✓	✓	✓	✓
B2	Brass	✓		✓		
B5	SS316	✓	✓	✓	✓	✓
B5N	SS316 NACE Compliance	✓	✓	✓	✓	✓
⑫ B17	Brass Forging		✓			

MANUAL OVERRIDE			
CODE	DESCRIPTION	CODE	DESCRIPTION
Pressure	≤ 20 bar (290 psi)	Pressure	20-40 bar (290 - 580 psi)
M0	NIL	① ✖	NIL
① ✖	Stayput	M12	Stayput
M8	Momentary	M5	Momentary

SEAL		MEDIA
CODE	GRADE, AMBIENT/ FLUID TEMPERATURE	① ✖
① ✖	NBR, -25 °C to 75 °C (-13 °F to 167 °F)	✓
S2G	VITON, -40 °C to 160 °C (-40 °F to 320 °F)	✓
S19	F. Silicon, -60 °C to 190 °C (-76 °F to 374 °F)	✓

⑫ MEDIA	
CODE	DESCRIPTION
① ✖	Air, Inert Gas

3/2 INTERNAL/ EXTERNAL PILOT OPERATED, NORMALLY CLOSED/ OPEN SOLENOID VALVE

SIZE-VOLTAGE CURRENT		
CODE	SIZE	VOLTAGE CURRENT
I-12V DC	I	12V DC
I-24V DC	I	24V DC
I-24V 50Hz	I	24V 50Hz/ 60Hz
I-110V 50Hz	I	110V 50Hz/ 120V 60Hz
I-230V 50Hz	I	230V 50Hz/ 240V 60Hz
III-12V DC	III	12V DC
III-24V DC	III	24V DC
III-24V 50Hz	III	24V 50Hz/ 60Hz
III-24V AC/ DC	III	④ 24V 50Hz/ 60Hz/ DC
III-48V DC	III	48V DC
III-110V DC	III	110V DC
III-110V 50Hz	III	110V 50Hz/ 120V 60Hz
III-110V AC/ DC	III	④ 110V 50Hz/ 60Hz/ DC 120V 50Hz/ 60Hz/ DC
III-220V DC	III	220V DC
III-230V 50Hz	III	230V 50Hz/ 240V 60Hz
III-230V AC/ DC	III	④ 220V 50Hz/ 60Hz/ DC 240V 50Hz/ 60Hz/ DC
III-256V DC	III	256V DC
II-12V DC	II	12V DC
II-24V DC	II	24V DC
II-24V AC/ DC	II	④ 24V 50Hz/ 60Hz/ DC
II-48V DC	II	48V DC
II-110V DC	II	110V DC
II-110V AC/ DC	II	④ 110V 50Hz/ 60Hz/ DC 120V 50Hz/ 60Hz/ DC
II-220V DC	II	220V DC
II-230V AC/ DC	II	④ 220V 50Hz/ 60Hz/ DC 240V 50Hz/ 60Hz/ DC
II-256V DC	II	256V DC

ENCLOSURE MATERIAL	
CODE	DESCRIPTION
① ✖	Aluminium Cast Epoxy Powder Coated
CO	CF8M (SS316 Cast)
CO-3M	CF3M (SS316L Cast)

SPECIAL	
CODE	DESCRIPTION
① ✖	NIL
⑦ FR	Full Rectifier with Surge Suppressor Size II, III
⑨ LD	LED - Size II, III
⑫ SS	Surge Suppressor Size II, III
⑫	
⑩ RC	Half Rectifier with Surge Suppressor Size III

ENCLOSURE TYPE	
CODE	DESCRIPTION
WEATHER PROOF	
⑤ 22	DIN Plug Solenoid, IP67, Cable Entry Pg9, as per DIN43650A, Size I
⑤ 25	DIN Plug Solenoid, IP67, Cable Entry Pg9, as per DIN43650B, Size II, III
16	Integrated Terminal Box, IP67, ½" NPT, -40 °C to 100 °C (-40 °F to 212 °F)
16-A	Integrated Terminal Box, IP68, ½" NPT, -40 °C to 100 °C (-40 °F to 212 °F)
19	Integrated Terminal Box, IP67, M20 X 1.5, -40 °C to 100 °C (-40 °F to 212 °F)
19-A	Integrated Terminal Box, IP68, M20 X 1.5, -40 °C to 100 °C (-40 °F to 212 °F)
17	Integrated Terminal Box, Bottom Cable entry M25 X 1.5, Size II, III, Insulation Class H
17-NS	Integrated Terminal Box, Bottom Cable entry ½" NPT, Size II, III, Insulation Class H
17-A	Integrated Terminal Box, IP68, Bottom Cable entry, M25 X 1.5, Size II, III, IV
17-NS-A	Integrated Terminal Box, IP68, Bottom Cable entry, ½" NPT, Size II, III, IV
EXPLOSION PROOF Ex d (For Gas & Dust)	
⑬ 37	Ex d IIC IP66, -40 °C TO 60 °C (-40 °F to 140 °F), ½" NPT
⑬ 39	Ex d IIC IP66, -40 °C TO 60 °C (-40 °F to 140 °F), M20 X 1.5
87	Ex d IIC IP67, -60 °C TO 100 °C (-76 °F to 212 °F), M25 X 1.5, Size II, III
87-MS	Ex d IIC IP67, -60 °C TO 100 °C (-76 °F to 212 °F), M20 X 1.5, Size II, III
87-NS	Ex d IIC IP67, -60 °C TO 100 °C (-76 °F to 212 °F), ½" NPT, Size II, III
87-A	Ex d IIC IP68, -60 °C TO 100 °C (-76 °F to 212 °F), M25 X 1.5, Size II, III
87-MS-A	Ex d IIC IP68, -60 °C TO 100 °C (-76 °F to 212 °F), M20 X 1.5, Size II, III
87-NS-A	Ex d IIC IP68, -60 °C TO 100 °C (-76 °F to 212 °F), ½" NPT, Size II, III
88	Explosion Proof, UL Listed, -60 °C to +100 °C (-76 °F to 212 °F), M25 X 1.5, Size II, III, IV
88-MS	Explosion Proof, UL Listed, -60 °C to +100 °C (-76 °F to 212 °F), M20 X 1.5, Size II, III, IV
88-NS	Explosion Proof, UL Listed, -60 °C to +100 °C (-76 °F to 212 °F), ½" NPT, Size II, III, IV
EXPLOSION PROOF Ex e mb (For Gas & Dust)	
58	Ex e mb IIC, IP67, -40 °C TO 70 °C (-40 °F to 158 °F), M25 X 1.5
58-MS	Ex e mb IIC, IP67, -40 °C TO 70 °C (-40 °F to 158 °F), M20 X 1.5
58-NS	Ex e mb IIC, IP67, -40 °C TO 70 °C (-40 °F to 158 °F), ½" NPT
58LT	Ex e mb IIC, IP67, -60 °C TO 70 °C (-76 °F to 158 °F), M25 X 1.5
58LT-MS	Ex e mb IIC, IP67, -60 °C TO 70 °C (-76 °F to 158 °F), M20 X 1.5
58LT-NS	Ex e mb IIC, IP67, -60 °C TO 70 °C (-76 °F to 158 °F), ½" NPT
EXPLOSION PROOF Ex ia (For Gas & Dust)	
③ 65-CR	Ex ia IIC, IP67, -60 °C TO 70 °C (-76 °F to 158 °F), Pg9, Size III, DIN Plug In Enclosure
66	Ex ia IIC, IP67, -60 °C TO 70 °C (-76 °F to 158 °F), M25 X 1.5, Size III, Booster Circuit
66-MS	Ex ia IIC, IP67, -60 °C TO 70 °C (-76 °F to 158 °F), M20 X 1.5, Size III, Booster Circuit
66-NS	Ex ia IIC, IP67, -60 °C TO 70 °C (-76 °F to 158 °F), ½" NPT, Size III, Booster circuit
67	Ex ia IIC, IP67, -60 °C TO 70 °C (-76 °F to 158 °F), M25 X 1.5, Size III
67-MS	Ex ia IIC, IP67, -60 °C TO 70 °C (-76 °F to 158 °F), M20 X 1.5, Size III
67-NS	Ex ia IIC, IP67, -60 °C TO 70 °C (-76 °F to 158 °F), ½" NPT, Size III
71	Ex ia IIC, IP67, -60 °C TO 70 °C (-76 °F to 158 °F), M25 X 1.5, Size III
71-MS	Ex ia IIC, IP67, -60 °C TO 70 °C (-76 °F to 158 °F), M20 X 1.5, Size III
71-NS	Ex ia IIC, IP67, -60 °C TO 70 °C (-76 °F to 158 °F), ½" NPT, Size III

INSULATION	
CODE	DESCRIPTION
① ✖	CLASS F
H	CLASS H

SIL	
CODE	DESCRIPTION
① ✖	NO
SL	YES

POWER																
			12V DC	24V DC	24V 50 Hz	24V AC / DC	48V DC	110V DC	110V 50Hz	110V AC / DC		230V 50Hz	220V DC	230V AC / DC		256V DC
CODE	SIZE	POWER WATT	12V DC	24V DC	24V 50 Hz / 60 Hz	24V 50Hz / ④ 60 Hz / DC	48V DC	110V DC	110V 50Hz / 120V 60Hz	110V 50Hz / ④ 60Hz / DC	120V 50Hz / ④ 60Hz / DC	230V 50Hz / 240V 60Hz	220V DC	220V 50Hz / ④ 60Hz / DC	240V 50Hz / ④ 60Hz / DC	256V DC
LW2	I	2.0		✓												
① ✕	I	6.0			✓				✓			✓				
① ✕	I	8.0	✓	✓												
LW1	III	1		✓												
LW2	III	2.0	✓	✓				✓		✓	✓					
① ✕	III	6.0			✓				✓			✓				
① ✕	III	8.0	✓	✓		✓	✓	✓		✓			✓	✓		
		9.0									✓				✓	✓
① ✕	II	13.0	✓	✓		✓	✓	✓		✓			✓	✓		
		15.0									✓				✓	✓
⑪ I B04	III	0.4		✓												

SERIES : 32P

3/2 INTERNAL/ EXTERNAL PILOT OPERATED, NORMALLY CLOSED/ OPEN SOLENOID VALVE

APPROVAL		⑨ ENCLOSURE TYPE													
CODE	DESCRIPTION	17	37	39	58	58LT	65CR	66	67	71	87	17A	87A	88	
① ⑮ ✕	CCOE/ PESO + BIS, Insulation Class H		✓	✓			✓	✓	✓	✓	✓		✓		
01	CE - ATEX, Insulation Class H		✓	✓	✓	✓									
01	IEC Ex + ATEX, Insulation Class H							✓	✓	✓	✓		✓		
01B	CCOE / PESO + CE - ATEX		✓	✓	✓	✓									
01B	CCOE / PESO + IEC Ex + ATEX						✓	✓	✓	✓	✓		✓		
02	UL Recognised, for USA and Canada, Type 3, 3S, 4, 4X, 6, 6P UL file Number E 342217	✓										✓			
03	INMETRO + ATEX, Insulation Class H		✓	✓				✓	✓	✓	✓		✓		
03C	IEC Ex + ATEX + IN METRO + CuTR-EAC										✓		✓		
03U	IEC Ex + ATEX + IN METRO + UL (Type 3, 3S, 4, 4X, 6, 6P)	✓										✓			
04	CuTR- EAC + ATEX , Insulation Class H		✓	✓				✓	✓	✓	✓		✓		
04U	IEC Ex + ATEX + CuTR + UL (Type 3, 3S, 4, 4X, 6, 6P)	✓										✓			
②① 07	KOSHA + ATEX, Insulation Class H										✓		✓		
08	Ukraine, Insulation Class H							✓	✓	✓	✓		✓		
09	UL Listed Ex for USA & Canada Class I, DIV 1, Class II, DIV 1, Class III DIV 1													✓	
⑮ 12	ITRI Certification (TS Certification Taiwan)							✓	✓	✓					
②① CE	CE (Weatherproof Solenoid)	✓										✓			
②① EAC	EAC MARK	✓										✓			

Note :

- ① Do not Specify when opted for
- ② Approval other than BIS, CCOE/ PESO, DGMS
- ③ BIS, CCOE/ PESO, DGMS Approved coil
- ④ Opt FR from special
- ⑤ Current DC, 50Hz, 60Hz
- ⑦ Do not Opt for Enclosure Type 01, 06, 22, 25
- ⑧ Select Body Material SS316 (B5)
- ⑨ All variation of 17, 37, 39, 58, 58LT, 65CR, 66, 67, 71 87 included
- ⑩ Media Should be Oil free Air/ Inert Gas/ Water
- ⑪ Do not opt for 01, 06, 22, 25. In rush 2W for 100 msec, Holding 0.4W
- ⑫ Current DC
- ⑬ Ambient Temperature restricted for Enclosure Type 17, 37, 39, 58, 58LT, 65CR, 66, 67, 71, 87 to Solenoid Ambient Temperature
- ⑭ Select one or Nil Accessories from each Solenoid (A1 to A6), Valve (B7 to B8)
- ⑮ IP67 Certified by BIS, CCOE/ PESO, DGMS
- ⑰ Can not be opted for Enclosure Type 01, 06
- ⑱ Can be opted for Enclosure Type 01, 06, 16, 19, 22, 25
- ⑲ KOSHA certificate only for enclosure size II ≤ 20W
- ⑳ For Body Material B17 (Brass Forged), add suffix V01 to valve type
- ㉑ Do not Opt for Enclosure Type 01, 06, 22
- ㉒ Media shall not be part of Ordering code but It shall be printed separately on Valve
- ㉓ For Body Material Aluminium and Ss316
- ㉔ For Solenoid type 25 with AC current supply, Use 50Hz with Special RC Option
- ㉕ For Intrinsically Safe Solenoid, LD (LED) can be opted with CCOE/PESO certification only
- ㉖ Select Seal Kit Code P98 & Repair Kit Code 99 for Intrinsically Safe Valve

ENTITY PARAMETER

Entity Parameter	
Ui	32V DC
Ii	230mA
Pi	2.3W
Ci	0
Li	0

MINIMUM OPERATING PARAMETER

Type	66	66..LD..	65CR	67	67..LD..	71	71..LD..
Minimum Voltage (V)	10	10	14	14	15	14	14
Minimum Current (mA)	20	21	25	25	28	25	28
Minimum Power (W)	0.20	0.21	0.35	0.35	0.42	0.35	0.42
LED	No	Yes	No	No	Yes	No	Yes
Pressure (bar)	As per Solenoid Valve rating		Maximum 11.0				

RESPONSE ON TIME FOR SOLENOID TYPE 66, 66..LD..

Voltage (V)	10	11	12	14	18	22	24	26	30	32	Current (mA)	18.5	20	25	30
Current (mA)	20	22	24	28.5	37	45.5	49.7	54	63	67	Open Ckt Voltage (V)	19.5	19.5	19.5	19.5
Response Time (ms) ≤	4800	3800	2500	1600	850	650	450	400	250	250	Time (ms) ≤	5000	4000	2500	2000

3/2 INTERNAL/ EXTERNAL PILOT OPERATED, NORMALLY CLOSED/ OPEN SOLENOID VALVE

Explosion Proof

ENCLOSURE TYPE 37/ 39

SIZE	Power	BIS & PESO, DGMS	ATEX / INMETRO	EAC - CuTR (Russia)
I II IV	≤ 5W ≤ 8W ≤ 11W	Ex d IIC T6/ T5 Gb IP67 -20 °C ≤ Ta ≤ 65 °C FOR T6 -20 °C ≤ Ta ≤ 70 °C FOR T5	Ex db IIC T6/ T5 Gb Ex tb IIIC T80°C/ T95°C Db, IP66/ IP67 -40°C ≤ Ta ≤ 65°C FOR T6 -40°C ≤ Ta ≤ 70°C FOR T5	1 Ex db IIC T6/ T5/ T4 Gb Ex tb IIIC T80°C/ 95°C/ 130°C Db, IP66 -40°C ≤ Ta ≤ 35°C FOR T6 -40°C ≤ Ta ≤ 50°C FOR T5 -40°C ≤ Ta ≤ 60°C FOR T4
I II III	≤ 8W ≤ 13W ≤ 8W	Ex d IIC T6/ T5 Gb IP67 -20°C ≤ Ta ≤ 60°C FOR T6 -20°C ≤ Ta ≤ 70°C FOR T5	Ex db IIC T6/ T5 Gb Ex tb IIIC T80°C/ T95°C Db, IP66/ IP67 -40°C ≤ Ta ≤ 60°C FOR T6 -40°C ≤ Ta ≤ 70°C FOR T5	
III	≤ 15W	Ex d IIC T6/ T5/ T4 Gb IP67 -20°C ≤ Ta ≤ 50°C FOR T6 -20°C ≤ Ta ≤ 65°C FOR T5 -20°C ≤ Ta ≤ 70°C FOR T4	Ex db IIC T6/ T5/ T4 Gb Ex tb IIIC T80°C/ T95°C/ T130°C Db, IP66/ IP67 -40°C ≤ Ta ≤ 50°C FOR T6 -40°C ≤ Ta ≤ 65°C FOR T5 -40°C ≤ Ta ≤ 70°C FOR T4	
III IV	≤ 5W ≤ 5W	Ex d IIC T6 Gb IP67 -20 °C ≤ Ta ≤ 70 °C FOR T6	Ex db IIC T6 Gb Ex tb IIIC T80°C Db, IP66/ IP67 -40°C ≤ Ta ≤ 70°C FOR T6	
II	≤ 20W	Ex d IIC T6/ T5 Gb IP67 -20°C ≤ Ta ≤ 55°C FOR T6 -20°C ≤ Ta ≤ 70°C FOR T5	Ex db IIC T6/ T5 Gb Ex tb IIIC T80°C/ T95°C Db, IP66/ IP67 -40 °C ≤ Ta ≤ 55 °C FOR T6 -40 °C ≤ Ta ≤ 70 °C FOR T5	
II	≤ 30W	Ex d IIC T6/ T5/ T4 Gb IP67 -20°C ≤ Ta ≤ 40°C FOR T6 -20°C ≤ Ta ≤ 55°C FOR T5 -20°C ≤ Ta ≤ 70°C FOR T4	Ex db IIC T6/ T5/ T4 Gb Ex tb IIIC T80°C/ T95°C/ T130°C Db, IP66/ IP67 -40 °C ≤ Ta ≤ 40 °C FOR T6 -40 °C ≤ Ta ≤ 55 °C FOR T5 -40 °C ≤ Ta ≤ 70 °C FOR T4	

ENCLOSURE TYPE 87

SIZE	Power	ATEX, IEC Ex, BIS & PESO, DGMS	INMETRO	EAC - CuTR (Russia) / UKRANE	KOSHA
III II IV	≤ 5W ≤ 8W ≤ 11W	Ex d IIC T6/T5/T4 Gb IP67 Ex t IIIC T85°C/T100°C/T135°C Db IP67 -60°C ≤ Ta ≤ +65°C for T6 -60°C ≤ Ta ≤ +80°C for T5 -60°C ≤ Ta ≤ +100°C for T4	Ex d IIC T6/T5/T4 Gb Ex t IIIC T85°C/T100°C/T135°C Db IP67 -60°C ≤ Ta ≤ +65°C for T6 -60°C ≤ Ta ≤ +80°C for T5 -60°C ≤ Ta ≤ +100°C for T4	1 Ex d IIC T6/T5/T4 Gb IP67 Ex tb IIIC T80°C/T95°C/T130°C Db ИЛИ -60°C ≤ Ta ≤ +65°C for T6 -60°C ≤ Ta ≤ +80°C for T5 -60°C ≤ Ta ≤ +100°C for T4	형식 또는 모델명 : 87, BCE 규격 또는 등급 : Ex d IIC T3-T6 제조자명 : Rotex Automation Limited 안전인증 번호 : 15-AV4B0-0000
III II	≤ 8W ≤ 13W ≤ 8W	Ex d IIC T6/T5/T4 Gb IP67 Ex t IIIC T85°C/T100°C/T135°C Db IP67 -60°C ≤ Ta ≤ +60°C for T6 -60°C ≤ Ta ≤ +75°C for T5 -60°C ≤ Ta ≤ +100°C for T4	Ex d IIC T6/T5/T4 Gb Ex t IIIC T85°C/T100°C/T135°C Db IP67 -60°C ≤ Ta ≤ +60°C for T6 -60°C ≤ Ta ≤ +75°C for T5 -60°C ≤ Ta ≤ +100°C for T4	1 Ex d IIC T6/T5/T4 Gb IP67 Ex tb IIIC T80°C/T95°C/T130°C Db ИЛИ -60°C ≤ Ta ≤ +60°C for T6 -60°C ≤ Ta ≤ +75°C for T5 -60°C ≤ Ta ≤ +100°C for T4	
III	≤ 15W	Ex d IIC T6/T5/T4 Gb IP67 Ex t IIIC T85°C/T100°C/T135°C Db IP67 -60°C ≤ Ta ≤ +50°C for T6 -60°C ≤ Ta ≤ +65°C for T5 -60°C ≤ Ta ≤ +100°C for T4	Ex d IIC T6/T5/T4 Gb Ex t IIIC T85°C/T100°C/T135°C Db IP67 -60°C ≤ Ta ≤ +50°C for T6 -60°C ≤ Ta ≤ +65°C for T5 -60°C ≤ Ta ≤ +100°C for T4	1 Ex d IIC T6/T5/T4 Gb IP67 Ex tb IIIC T80°C/T95°C/T130°C Db ИЛИ -60°C ≤ Ta ≤ +50°C for T6 -60°C ≤ Ta ≤ +65°C for T5 -60°C ≤ Ta ≤ +100°C for T4	
IV	≤ 5W ≤ 5W	Ex d IIC T6/T5/T4 Gb IP67 Ex t IIIC T85°C/T100°C/T135°C Db IP67 -60°C ≤ Ta ≤ +70°C for T6 -60°C ≤ Ta ≤ +85°C for T5 -60°C ≤ Ta ≤ +100°C for T4	Ex d IIC T6/T5/T4 Gb Ex t IIIC T85°C/T100°C/T135°C Db IP67 -60°C ≤ Ta ≤ +70°C for T6 -60°C ≤ Ta ≤ +85°C for T5 -60°C ≤ Ta ≤ +100°C for T4	1 Ex d IIC T6/T5/T4 Gb IP67 Ex tb IIIC T80°C/T95°C/T130°C Db ИЛИ -60°C ≤ Ta ≤ +70°C for T6 -60°C ≤ Ta ≤ +85°C for T5 -60°C ≤ Ta ≤ +100°C for T4	
II	≤ 20W	Ex d IIC T5/T4/T3 Gb IP67 Ex IIIC T100°C/T135°C/155°C Db IP67 -60°C ≤ Ta ≤ +45°C for T5 -60°C ≤ Ta ≤ +80°C for T4 -60°C ≤ Ta ≤ +100°C for T3	Ex d IIC T5/T4/T3 Gb Ex IIIC T100°C/T135°C/155°C Db IP67 -60°C ≤ Ta ≤ +45°C for T5 -60°C ≤ Ta ≤ +80°C for T4 -60°C ≤ Ta ≤ +100°C for T3	1 Ex d IIC T5/T4/T3 Gb IP67 Ex tb IIIC T95°C/T130°C/T155°C Db ИЛИ -60°C ≤ Ta ≤ +45°C for T5 -60°C ≤ Ta ≤ +80°C for T4 -60°C ≤ Ta ≤ +100°C for T3	
II	≤ 30W	Ex d IIC T4/T3 Gb IP67 Ex IIIC T135°C/T150°C Db IP67 -60°C ≤ Ta ≤ +60°C for T4 -60°C ≤ Ta ≤ +70°C for T3	Ex d IIC T4/T3 Gb Ex IIIC T135°C/T155°C Db IP67 -60°C ≤ Ta ≤ +60°C for T4 -60°C ≤ Ta ≤ +70°C for T3	1 Ex d IIC T4/T3 Gb IP67 Ex tb IIIC T130°C/T155°C Db ИЛИ -60°C ≤ Ta ≤ +60°C for T4 -60°C ≤ Ta ≤ +70°C for T3	

3/2 INTERNAL/ EXTERNAL PILOT OPERATED, NORMALLY CLOSED/ OPEN SOLENOID VALVE

Explosion Proof

ENCLOSURE TYPE 58

SIZE	Power	CE-ATEX, Insulation H
II IV	≤ 5W ≤ 8W ≤ 11W	Ex II 2GD Ex e mb IIC T6/T5 Gb IP67 Ex tb IIIC T6/ T5 Db IP67 -40°C ≤ Ta ≤ 65°C for T6 -40°C ≤ Ta ≤ 70°C for T5
II III	≤ 8W ≤ 13W ≤ 8W	Ex II 2GD Ex e mb IIC T6/T5 Gb IP67 Ex tb IIIC T6/ T5 Db IP67 -40°C ≤ Ta ≤ 60°C for T6 -40°C ≤ Ta ≤ 70°C for T5
III	≤ 15W	Ex II 2GD Ex e mb IIC T6/T5/T4 Gb IP67 Ex tb IIIC T6/ T5/ T4 Db IP67 -40°C ≤ Ta ≤ 50°C for T6 -40°C ≤ Ta ≤ 65°C for T5 -40°C ≤ Ta ≤ 70°C for T4
III IV	≤ 5W ≤ 5W	Ex II 2GD Ex e mb IIC T6 Gb IP67 Ex tb IIIC T6 Db IP67 -40°C ≤ Ta ≤ 70°C for T6
II	≤ 20W	Ex II 2GD Ex e mb IIC T6/T5 Gb IP67 Ex tb IIIC T6/ T5 Db IP67 -40°C ≤ Ta ≤ 50°C for T6 -40°C ≤ Ta ≤ 70°C for T5
II	≤ 30W	Ex II 2GD Ex e mb IIC T6/T5/T4 Gb IP67 Ex tb IIIC T6/ T5/ T4 Db IP67 -40°C ≤ Ta ≤ 40°C for T6 -40°C ≤ Ta ≤ 55°C for T5 -40°C ≤ Ta ≤ 70°C for T4

ENCLOSURE TYPE 58LT

SIZE	Power	CE-ATEX, Insulation H
II IV	≤ 5W ≤ 8W ≤ 11W	Ex II 2GD Ex e mb IIC T6/T5 Gb IP67 Ex tb IIIC T6/ T5 Db IP67 -60°C ≤ Ta ≤ 65°C for T6 -60°C ≤ Ta ≤ 70°C for T5
II III	≤ 8W ≤ 13W ≤ 8W	Ex II 2GD Ex e mb IIC T6/T5 Gb IP67 Ex tb IIIC T6/ T5 Db IP67 -60°C ≤ Ta ≤ 60°C for T6 -60°C ≤ Ta ≤ 70°C for T5
III	≤ 15W	Ex II 2GD Ex e mb IIC T6/T5/T4 Gb IP67 Ex tb IIIC T6/ T5/ T4 Db IP67 -60°C ≤ Ta ≤ 50°C for T6 -60°C ≤ Ta ≤ 65°C for T5 -60°C ≤ Ta ≤ 70°C for T4
III IV	≤ 5W ≤ 5W	Ex II 2GD Ex e mb IIC T6 Gb IP67 Ex tb IIIC T6 Db IP67 -60°C ≤ Ta ≤ 70°C for T6
II	≤ 20W	Ex II 2GD Ex e mb IIC T6/T5 Gb IP67 Ex tb IIIC T6/ T5 Db IP67 -60°C ≤ Ta ≤ 55°C for T6 -60°C ≤ Ta ≤ 70°C for T5
II	≤ 30W	Ex II 2GD Ex e mb IIC T6/T5/T4 Gb IP67 Ex tb IIIC T6/ T5/ T4 Db IP67 -60°C ≤ Ta ≤ 40°C for T6 -60°C ≤ Ta ≤ 55°C for T5 -60°C ≤ Ta ≤ 70°C for T4

ENCLOSURE TYPE 88

SIZE	Power	US & Canada (UL Recognised)
III	≤ 6W	CLASS I, DIV I, GROUP B, C, D CLASS II, DIV I, GROUP E, F, G CLASS III, DIV I -60 °C ≤ Ta ≤ 55 °C FOR T6 -60 °C ≤ Ta ≤ 70 °C FOR T5 -60 °C ≤ Ta ≤ 100 °C FOR T4 TYPE 3, 3R, 3S, 4, 4X, 6, 6P
IV	≤ 5W	CLASS I, DIV I, GROUP B, C, D CLASS II, DIV I, GROUP E, F, G CLASS III, DIV I -60 °C ≤ Ta ≤ +65 °C FOR T6 -60 °C ≤ Ta ≤ +80 °C FOR T5 -60 °C ≤ Ta ≤ +100 °C FOR T4A TYPE 3, 3R, 3S, 4, 4X, 6, 6P
II III IV	≤ 9W ≤ 9W ≤ 13W	CLASS I, DIV I, GROUP B, C, D CLASS II, DIV I, GROUP E, F, G CLASS III, DIV I -60 °C ≤ Ta ≤ +60 °C FOR T6 -60 °C ≤ Ta ≤ +75 °C FOR T5 -60 °C ≤ Ta ≤ +95 °C FOR T4A -60 °C ≤ Ta ≤ +100 °C FOR T4 TYPE 3, 3R, 3S, 4, 4X, 6, 6P
II III	≤ 15W ≤ 17W	CLASS I, DIV I, GROUP B, C, D CLASS II, DIV I, GROUP E, F, G CLASS III, DIV I -60 °C ≤ Ta ≤ +50 °C FOR T6 -60 °C ≤ Ta ≤ +65 °C FOR T5 -60 °C ≤ Ta ≤ +85 °C FOR T4A -60 °C ≤ Ta ≤ +100 °C FOR T4 TYPE 3, 3R, 3S, 4, 4X, 6, 6P
II	≤ 22W	CLASS I, DIV I, GROUP B, C, D CLASS II, DIV I, GROUP E, F, G CLASS III, DIV I -60 °C ≤ Ta ≤ +45 °C FOR T6 -60 °C ≤ Ta ≤ +60 °C FOR T5 -60 °C ≤ Ta ≤ +70 °C FOR T4A TYPE 3, 3R, 3S, 4, 4X, 6, 6P
II	≤ 30W	CLASS I, DIV I, GROUP B, C, D CLASS II, DIV I, GROUP E, F, G CLASS III, DIV I -60 °C ≤ Ta ≤ +30 °C FOR T6 -60 °C ≤ Ta ≤ +45 °C FOR T5 -60 °C ≤ Ta ≤ +65 °C FOR T4A -60 °C ≤ Ta ≤ +70 °C FOR T4 TYPE 3, 3R, 3S, 4, 4X, 6, 6P

ENCLOSURE TYPE 66, 67 & 71

Enclosure	ATEX/ IECEx (Eurpoe)/ INMETRO/ CEPEL (Brazil)	EAC - CuTR (Russia)
Al Cast	Ex ia IIC T5 Ga (-60°C ≤ Ta ≤ +75°C) Ex ia IIC T6 Ga (-60°C ≤ Ta ≤ +60°C) Ex ia IIIC T200 125°C IP67 Da (60°C ≤ Ta ≤ +75°C)	0 Ex ia IIC T5 Ga IP67 (-60°C ≤ Ta ≤ +75°C) 0 Ex ia IIC T6 Ga IP67 (-60°C ≤ Ta ≤ +60°C) 0 Ex ia IIIC T200 125°C IP67 Da (-60°C ≤ Ta ≤ +75°C)
SS Cast	Ex ia IIC T5 Ga (-60°C ≤ Ta ≤ +75°C) Ex ia IIC T6 Ga (-60°C ≤ Ta ≤ +60°C) Ex ia IIIC T200 125°C IP67 Da (60°C ≤ Ta ≤ +75°C) Ex ia I Ma (-60°C ≤ Ta ≤ 75°C)	0 Ex ia IIC T5 Ga IP67 (-60°C ≤ Ta ≤ +75°C) 0 Ex ia IIC T6 Ga IP67 (-60°C ≤ Ta ≤ +60°C) 0 Ex ia IIIC T200 125°C IP67 Da (-60°C ≤ Ta ≤ +75°C) PO Ex ia I Ma (-60°C ≤ Ta ≤ +75°C) (ТОЛЬКО сталь) ИЛИ
Al Cast	Ukraine 0 Ex ia IIC T5 X -60°C ≤ Ta ≤ +75°C 0 Ex ia IIC T6 X -60°C ≤ Ta ≤ +60°C	
SS Cast	PO Иа X -60°C ≤ Ta ≤ +75°C (ДЛЯ варіанта у сталюму корпусі) 0 Ex ia IIC T5 X -60°C ≤ Ta ≤ +75°C 0 Ex ia IIC T6 X -60°C ≤ Ta ≤ +60°C	BIS & PESO, DGMS Ex ia IIC T5, IP67 (-40°C ≤ Ta ≤ 75°C) Ex ia IIC T6, IP67 (-40°C ≤ Ta ≤ 60°C)

ENCLOSURE TYPE 65CR

BIS & PESO, DGMS
Ex ia IIC T5, IP67 (-40°C ≤ Ta ≤ 75°C) Ex ia IIC T6, IP67 (-40°C ≤ Ta ≤ 60°C)

MARKING Weather Proof

ENCLOSURE TYPE 17

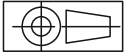
US & Canada (UL Recognised)
TYPE 3, 3R, 3S, 4, 4X, 6 & 6P -60°C to +100°C POWER ≤ 20W -60°C to +60°C 20W < POWER ≤ 30W

3/2 INTERNAL/ EXTERNAL PILOT OPERATED, NORMALLY CLOSED/ OPEN SOLENOID VALVE

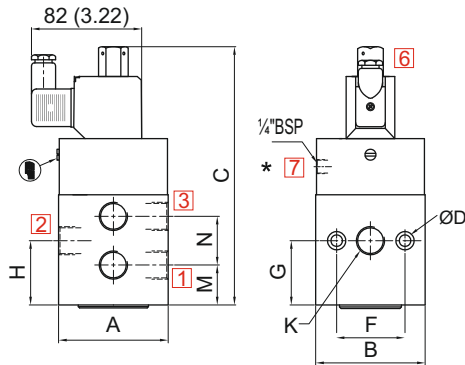
14 ACCESSORIES			
	CODE	DESCRIPTION	
	①✕	NIL	VALVE
	A3	Silencer Sintered Bronze	
	A4	Silencer Sintered SS	
	A5	Dust Cap (Ambient Temperature -20°C to 80°C (-4°F to 176°F))	
	①✕	NIL	SOLENOID
	B1	Weather Proof Cable Gland M20X1.5(M) Brass	
	B5	ATEX Approved Cable Gland (Plastic) M20X1.5(M) (Ambient Temperature -20°C to 80°C (-4°F to 176°F))	
	B6	ATEX Approved Cable Gland (BRASS) M20X1.5(M) (Ambient Temperature -20°C to 80°C (-4°F to 176°F))	
	B7	ATEX Approved Cable Gland (SS316) M20X1.5(M) (Ambient Temperature -20°C to 80°C (-4°F to 176°F))	
	B8	Weather Proof Cable gland M20X1.5(M) (Plastic)	
	B3	Explosion Proof Double Compression Cable Gland (BRASS) 1/2" NPT(M) (Ambient Temperature -20°C to 80°C (-4°F to 176°F)), CCOE / PESO Certified	
	B4	Explosion Proof Double Compression Cable Gland (SS316) 1/2" NPT(M) (Ambient Temperature -20°C to 80°C (-4°F to 176°F)), CCOE / PESO Certified	

3/2 INTERNAL/ EXTERNAL PILOT OPERATED, NORMALLY CLOSED/ OPEN SOLENOID VALVE

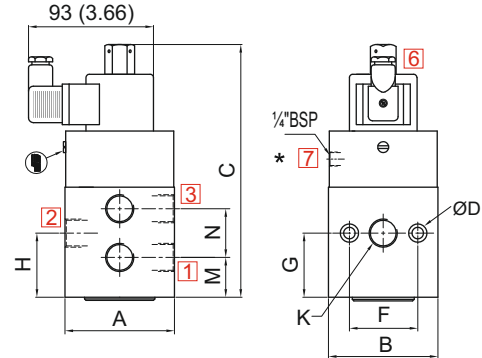
DIMENSIONS



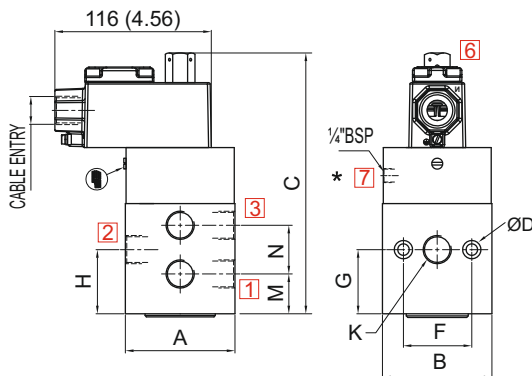
All dimensions are in mm (inch)



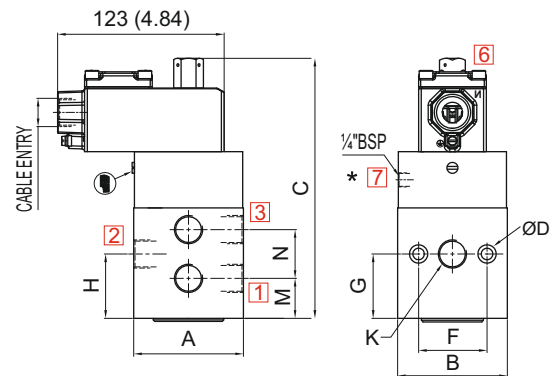
Valve Type	31119, 31120, 31209, 31210, 32301, P3001V01, P3003V01, P3006V01		
Enclosure Type	22		
Port Connection	1/4", 3/8", 1/2"		
Body Material	Orifice		
	7 (9/32")	10 (3/8")	16 (5/8")
Aluminium	✓	✓	✓
Brass	✓	✓	✓
SS316	✓	✓	✓
*PORT 7 only for valve type 32301 & P3006V01			



Valve Type	31119, 31120, 31209, 31210, 32301, I3003V01, I3004V01, I3005V01, P3001V01, P3003V01, P3006V01, P3007, P3008, P3009, 31120EP, 31210EP, 31121, 31206		
Enclosure Type	25, 65CR		
Port Connection	1/4", 3/8", 1/2"		
Body Material	Orifice		
	7 (9/32")	10 (3/8")	16 (5/8")
Aluminium	✓	✓	✓
Brass	✓	✓	✓
SS316	✓	✓	✓
*PORT 7 only for valve type 32301, P3006V01, P3008, I3004V01			



Valve Type	31119, 31120, 31209, 31210, 32301, P3001V01, P3003V01, P3006V01		
Enclosure Type	16, 19, 37, 39, 58, 58LT		
Port Connection	1/4", 3/8", 1/2"		
Body Material	Orifice		
	7 (9/32")	10 (3/8")	16 (5/8")
Aluminium	✓	✓	✓
Brass	✓	✓	✓
SS316	✓	✓	✓
*PORT 7 only for valve type 32301 & P3006V01			



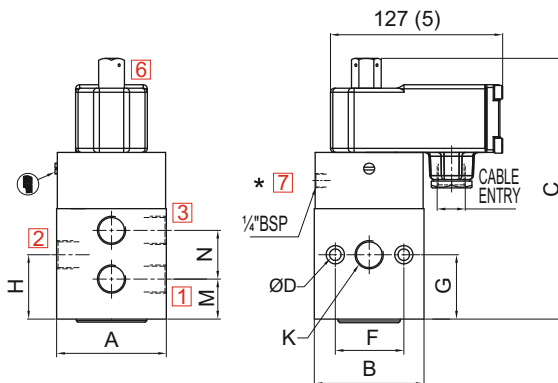
Valve Type	31119, 31120, 31209, 31210, 32301, I3003V01, I3004V01, I3005V01, P3001V01, P3003V01, P3006V01, P3007, P3008, P3009, 31120EP, 31210EP, 31121, 31206		
Enclosure Type	16, 19, 37, 39, 58, 58LT, 67		
Port Connection	1/4", 3/8", 1/2"		
Body Material	Orifice		
	7 (9/32")	10 (3/8")	16 (5/8")
Aluminium	✓	✓	✓
Brass	✓	✓	✓
SS316	✓	✓	✓
* PORT 7 only for valve type 32301, P3006V01, P3008, I3004V01			

Valve Type : 31119, 31120, 31209, 31210, I3003V01, I3005V01, I3004V01, P3001V01, P3003V01, P3006V01, 31120EP										
NW	K	A	B	C	D	F	G	H	M	N
7 (9/32")	1/4"	51(2)	51(2)	158(6.22)	6.5(0.25)	34(1.33)	33.5(1.32)	33.5(1.32)	21.5(0.85)	24.5(0.96)
10 (3/8")	3/8"	61(2.40)	61(2.40)	173(6.81)	6.5(0.25)	34(1.33)	35.5(1.40)	35.5(1.40)	22(0.87)	27(1.06)
16 (5/8")	1/2"	81(3.18)	81(3.18)	193(7.60)	8.5(0.33)	50(1.96)	47.5(1.87)	47.5(1.87)	29.5(1.16)	36(1.42)

Valve Type : 31121, 31206										
NW	K	A	B	C	D	F	G	H	M	N
7 (9/32")	1/4"	51(2)	51(2)	172(6.77)	6.5(0.25)	34(1.33)	33.5(1.32)	33.5(1.32)	21.5(0.85)	24.5(0.96)
10 (3/8")	3/8"	61(2.40)	61(2.40)	186(7.32)	6.5(0.25)	34(1.33)	35.5(1.40)	35.5(1.40)	22(0.87)	27(1.06)
16 (5/8")	1/2"	81(3.18)	81(3.18)	202(7.95)	8.5(0.33)	50(1.96)	47.5(1.87)	47.5(1.87)	29.5(1.16)	36(1.42)

3/2 INTERNAL/ EXTERNAL PILOT OPERATED, NORMALLY CLOSED/ OPEN SOLENOID VALVE

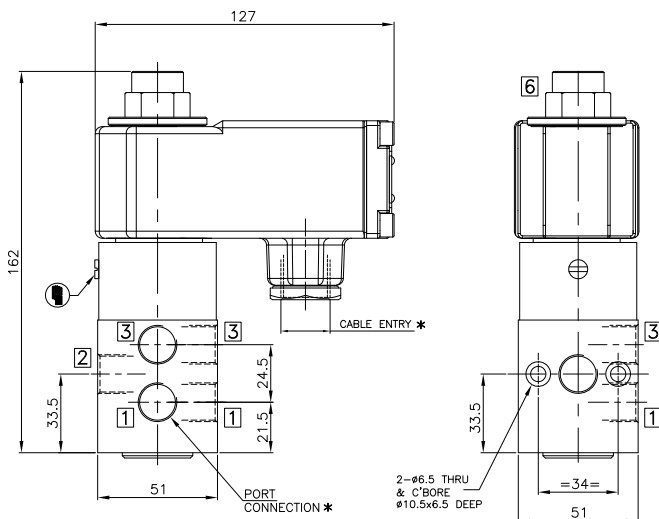
DIMENSIONS



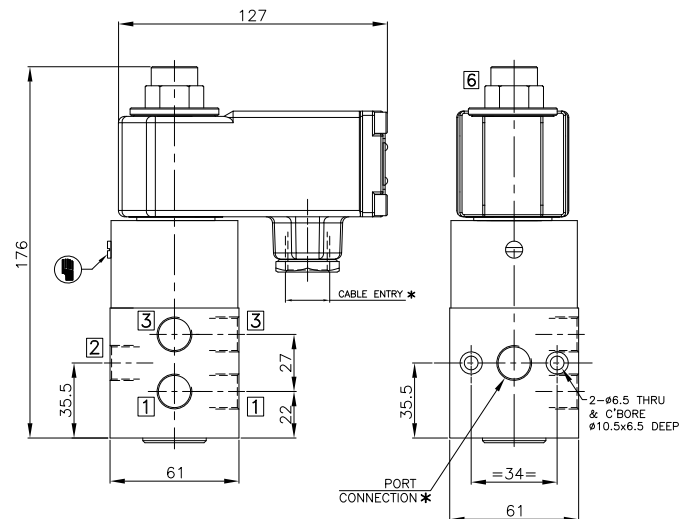
Valve Type	31119, 31120, 31209, 31210, 32301, I3003V01, I3004V01, I3005V01, P3001V01, P3003V01, P3006V01, P3007, P3008, P3009, 31120EP, 31210EP, 31121, 31206		
Enclosure Type	17, 87, 66, 71		
Port Connection	1/4", 3/8", 1/2"		
Body Material	Orifice		
	7(9/32")	10(5/8")	16(5/8")
Aluminium	✓	✓	✓
Brass	✓	✓	✓
SS316	✓	✓	✓
* PORT 7 only for valve type 32301, P3006V01, P3008, I3004V01			

Valve Type : 31119, 31120, 31209, 31210, 32301, I3003V01, I3005V01, P3001V01, I3004V01, P3003V01, P3006V01, 31120EP, 31210EP, P3007, P3008, P3009										
NW	K	A	B	C	D	F	G	H	M	N
7 (9/32")	1/4"	51(2)	51(2)	158(6.22)	6.5(0.25)	34(1.33)	33.5(1.32)	33.5(1.32)	21.5(0.85)	24.5(0.96)
10 (3/8")	3/8"	61(2.40)	61(2.40)	173(6.81)	6.5(0.25)	34(1.33)	35.5(1.40)	35.5(1.40)	22(0.87)	27(1.06)
16 (5/8")	1/2"	81(3.18)	81(3.18)	193(7.60)	8.5(0.33)	50(1.96)	47.5(1.87)	47.5(1.87)	29.5(1.16)	36(1.42)

Valve Type : 31121, 31206										
NW	K	A	B	C	D	F	G	H	M	N
7 (9/32")	1/4"	51(2)	51(2)	172(6.77)	6.5(0.25)	34(1.33)	33.5(1.32)	33.5(1.32)	21.5(0.85)	24.5(0.96)
10 (3/8")	3/8"	61(2.40)	61(2.40)	186(7.32)	6.5(0.25)	34(1.33)	35.5(1.40)	35.5(1.40)	22(0.87)	27(1.06)
16 (5/8")	1/2"	81(3.18)	81(3.18)	202(7.95)	8.5(0.33)	50(1.96)	47.5(1.87)	47.5(1.87)	29.5(1.16)	36(1.42)



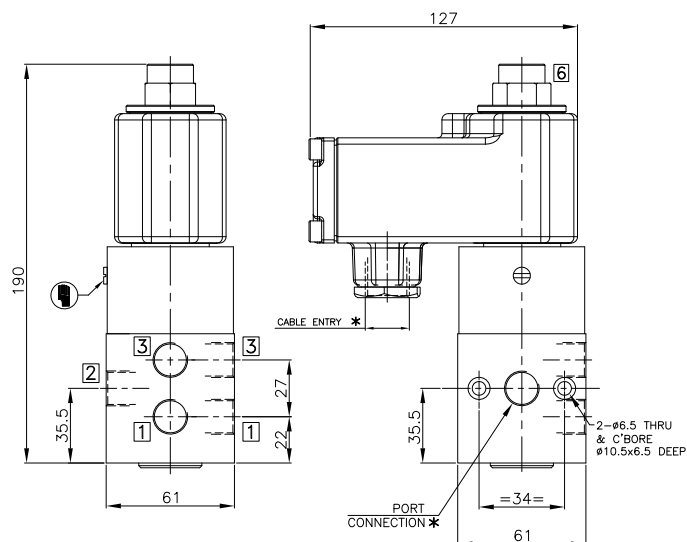
Valve Type	31119, 31120-7
Solenoid Model	88
Solenoid Size	III
Body Material	Aluminium, Brass, SS
Port Connection	1/4"



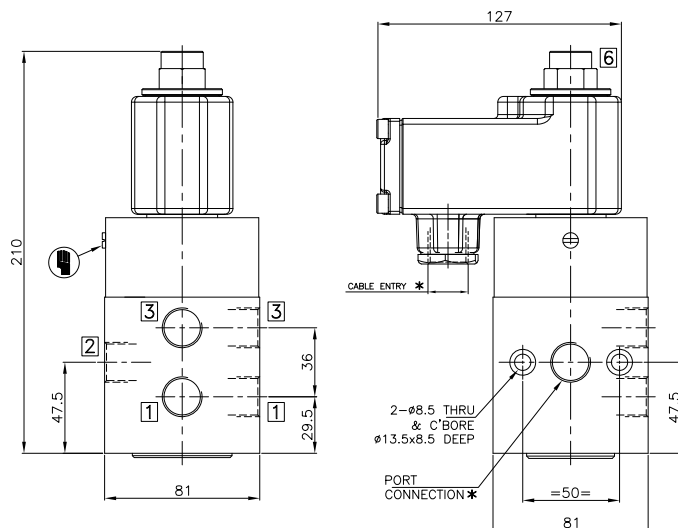
Valve Type	31119, 31120-10
Solenoid Model	88
Solenoid Size	III
Body Material	Aluminium, SS
Port Connection	3/8"

3/2 INTERNAL/ EXTERNAL PILOT OPERATED, NORMALLY CLOSED/ OPEN SOLENOID VALVE

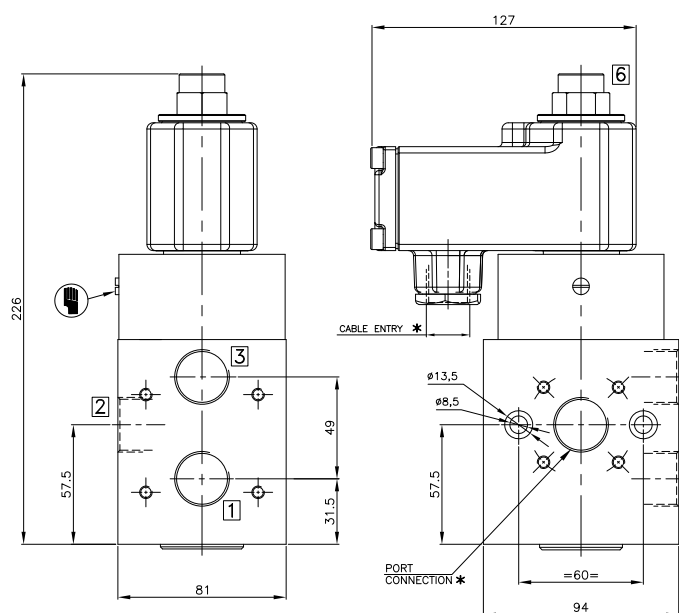
DIMENSIONS



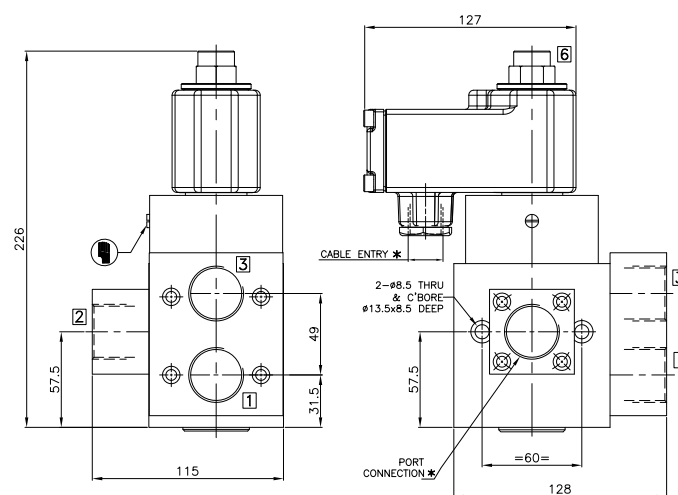
Valve Type	31121-10
Solenoid Model	88
Solenoid Size	III
Body Material	Aluminium
Port Connection	3/8"



Valve Type	31121-16
Solenoid Model	88
Solenoid Size	III
Body Material	Aluminium, Brass, SS
Port Connection	1/4"



Valve Type	31121-20
Solenoid Model	88
Solenoid Size	III
Body Material	Aluminium
Port Connection	3/4"

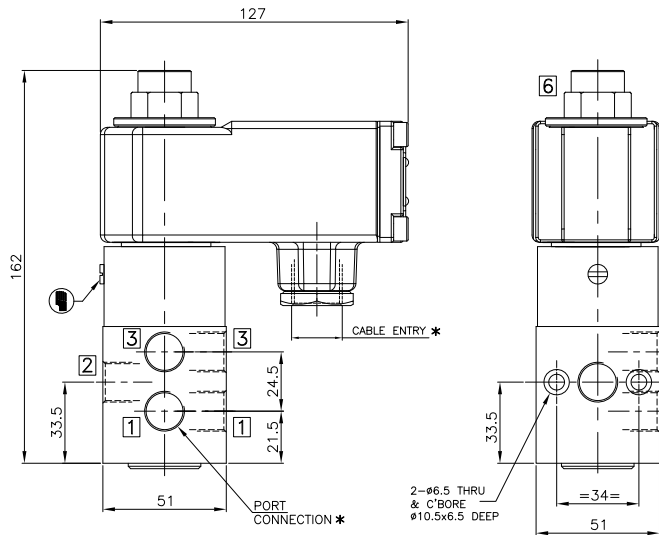


Valve Type	31121-25
Solenoid Model	88
Solenoid Size	III
Body Material	Aluminium
Port Connection	1"

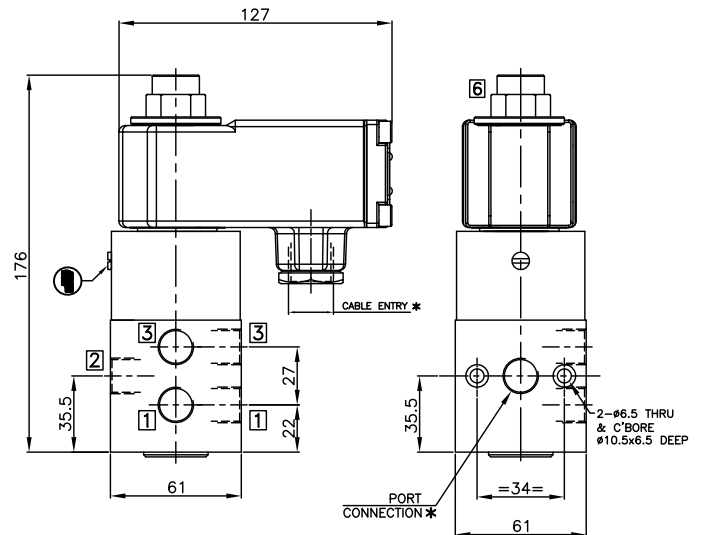
SERIES : 32P

3/2 INTERNAL/ EXTERNAL PILOT OPERATED, NORMALLY CLOSED/ OPEN SOLENOID VALVE

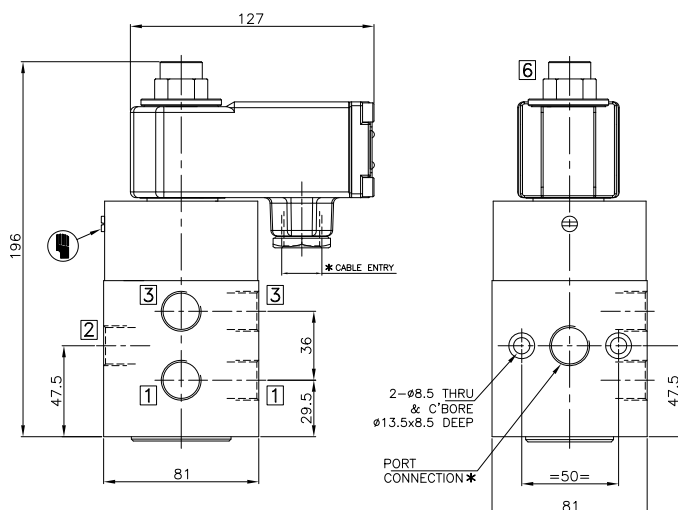
DIMENSIONS



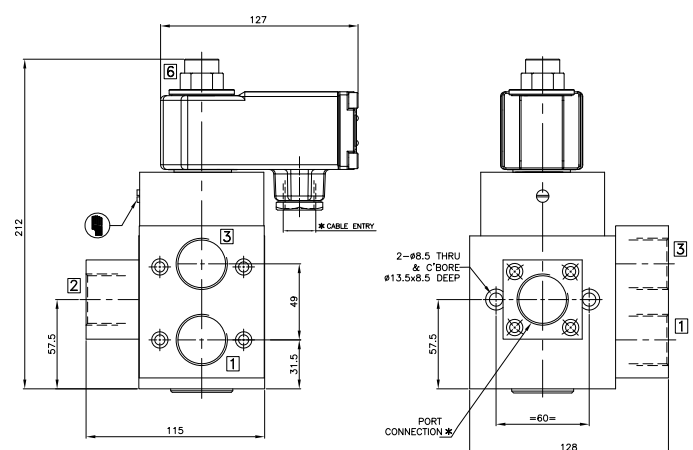
Valve Type	31209, 31210-7
Solenoid Model	88
Solenoid Size	III
Body Material	Aluminium, SS
Port Connection	1/4"



Valve Type	31209, 31210-10
Solenoid Model	88
Solenoid Size	III
Body Material	Aluminium, SS
Port Connection	3/8"



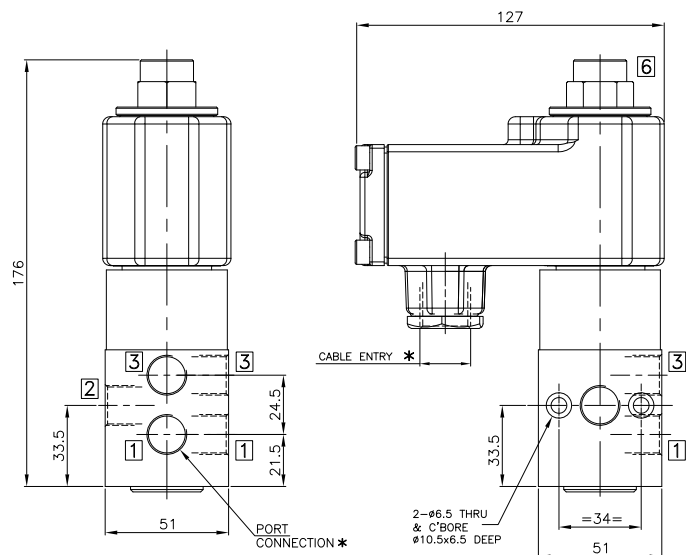
Valve Type	31209, 31210-16
Solenoid Model	88
Solenoid Size	III
Body Material	Aluminium, Brass
Port Connection	1/2"



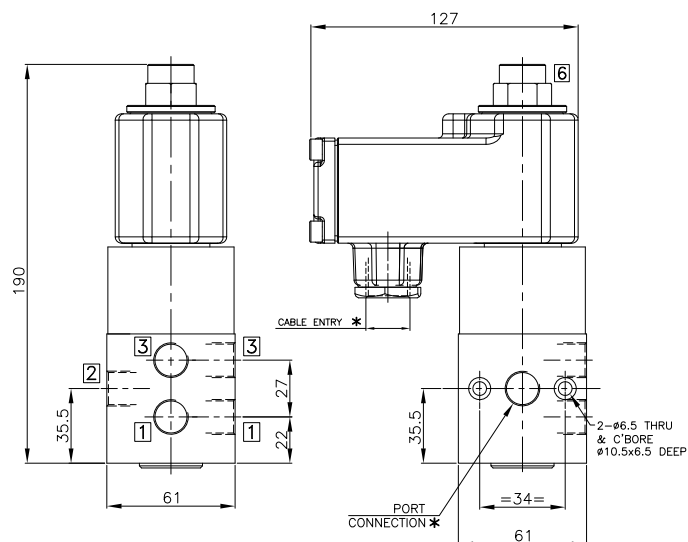
Valve Type	31209, 31210-25
Solenoid Model	88
Solenoid Size	III
Body Material	Aluminium, SS
Port Connection	1"

3/2 INTERNAL/ EXTERNAL PILOT OPERATED, NORMALLY CLOSED/ OPEN SOLENOID VALVE

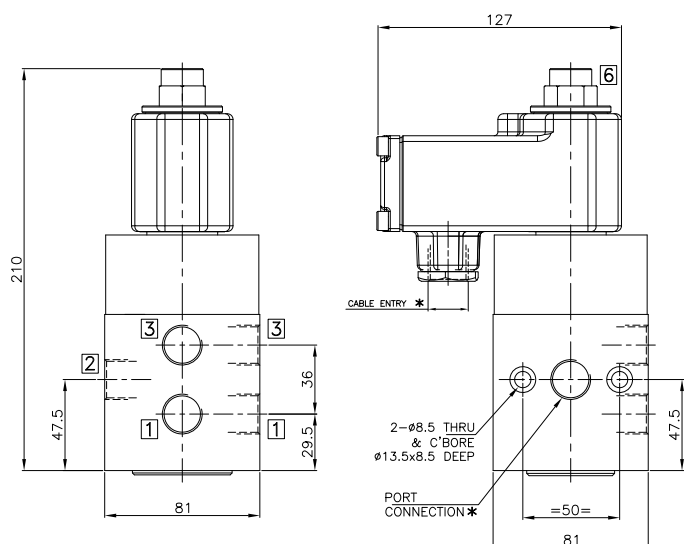
DIMENSIONS



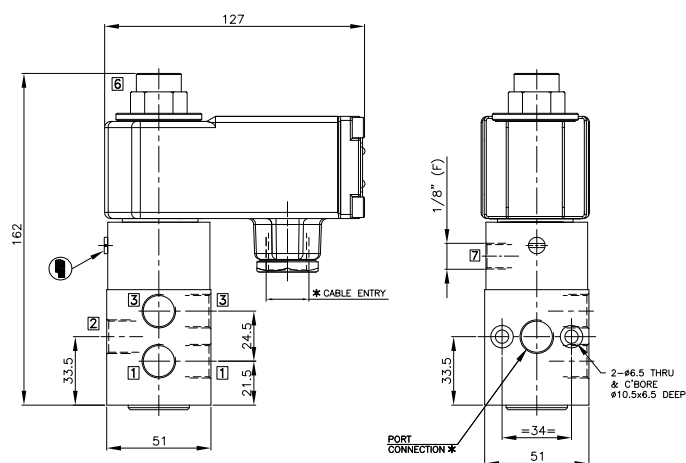
Valve Type	31206-7
Solenoid Model	88
Solenoid Size	II
Body Material	Aluminium, SS
Port Connection	1/4"



Valve Type	31206-10
Solenoid Model	88
Solenoid Size	II
Body Material	Aluminium, SS
Port Connection	3/8"



Valve Type	31206-16
Solenoid Model	88
Solenoid Size	II
Body Material	Aluminium, SS
Port Connection	1/2"

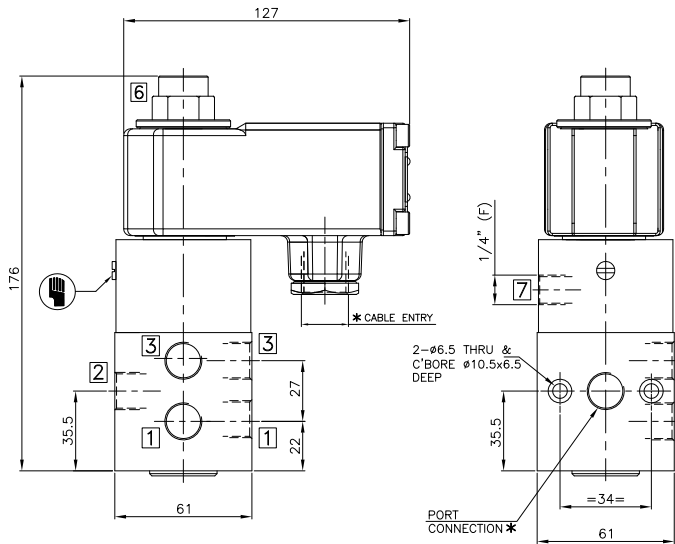


Valve Type	32301-7
Solenoid Model	88
Solenoid Size	III
Body Material	Aluminium
Port Connection	1/4"

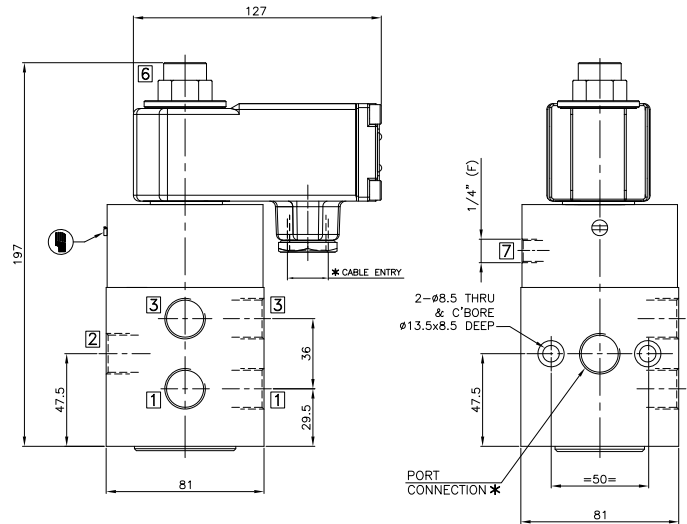
SERIES : 32P

3/2 INTERNAL/ EXTERNAL PILOT OPERATED, NORMALLY CLOSED/ OPEN SOLENOID VALVE

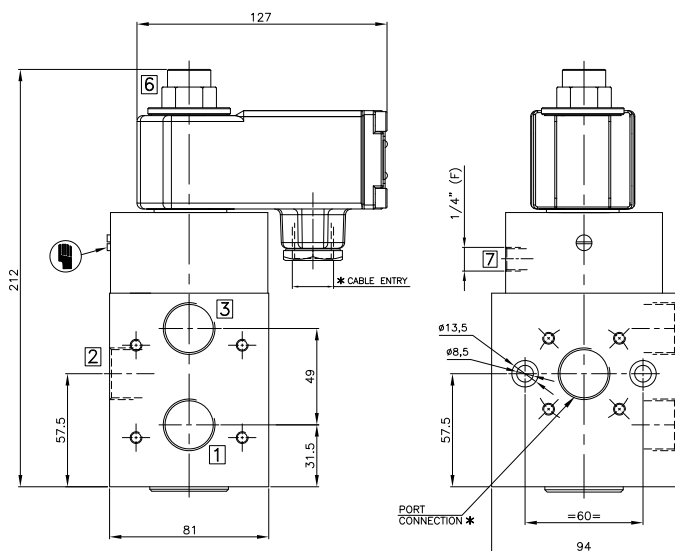
DIMENSIONS



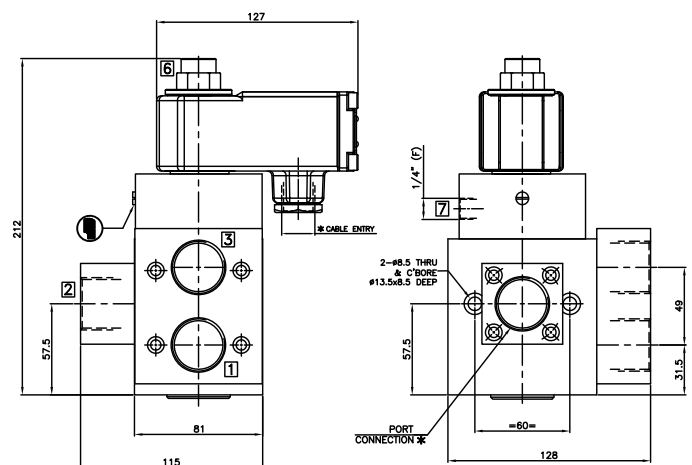
Valve Type	32301-10
Solenoid Model	88
Solenoid Size	III
Body Material	Aluminium
Port Connection	3/8"



Valve Type	32301-16
Solenoid Model	88
Solenoid Size	III
Body Material	Aluminium, SS
Port Connection	1/2"



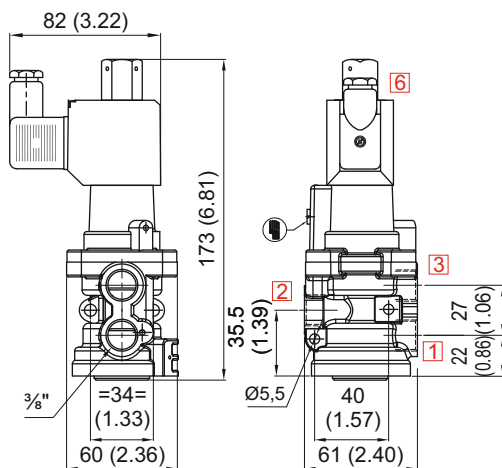
Valve Type	32301-20
Solenoid Model	88
Solenoid Size	III
Body Material	Aluminium, SS
Port Connection	1/4"



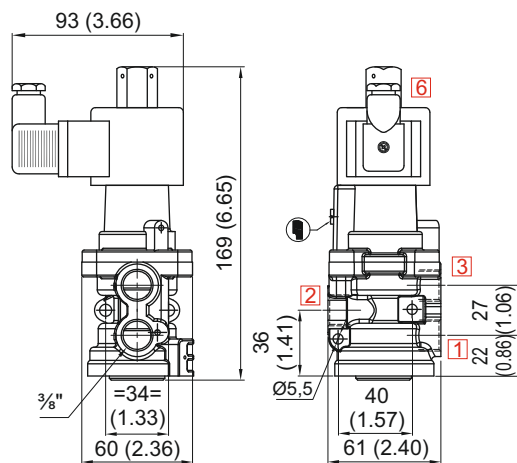
Valve Type	32301-25
Solenoid Model	88
Solenoid Size	III
Body Material	Aluminium
Port Connection	1"

3/2 INTERNAL/ EXTERNAL PILOT OPERATED, NORMALLY CLOSED/ OPEN SOLENOID VALVE

DIMENSIONS



Valve Type	31119V01, 31120V01, 31209V01, 31210V01, P3001V01, P3003V01
Enclosure Type	22
Port Connection	3/8"
Body Material	B17 (Forged Brass)
Orifice	10 (3/8")

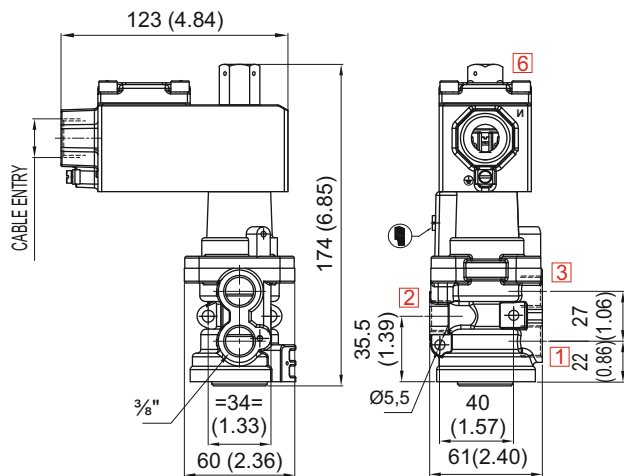


Valve Type	31119V01, 31120V01, 31209V01, 31210V01, I3003V01, I3005V01, P3001V01, P3003V01, P3007, P3009, 31120EP, 31210EP
Enclosure Type	25, 65CR
Port Connection	3/8"
Body Material	B17 (Forged Brass)
Orifice	10 (3/8")

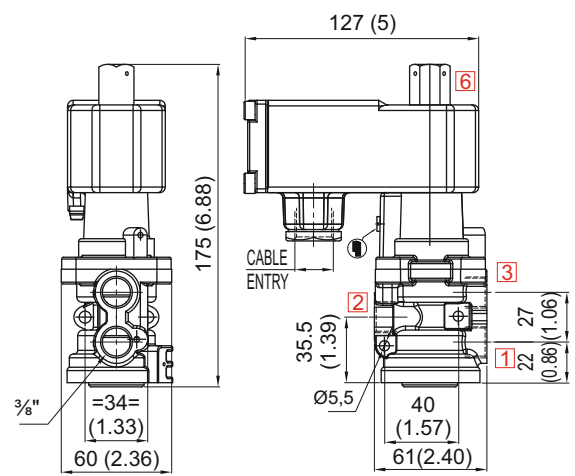
SERIES : 32P

3/2 INTERNAL/ EXTERNAL PILOT OPERATED, NORMALLY CLOSED/ OPEN SOLENOID VALVE

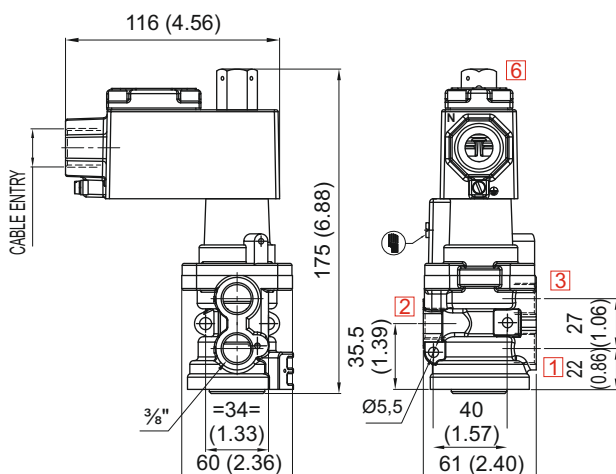
DIMENSIONS



Valve Type	31119V01, 31120V01, 31209V01, 31210V01, I3003V01, I3005V01, P3001V01, P3003V01, P3007V01, P3009V01, 31120V01EP, 31210V01EP
Enclosure Type	16, 19, 37, 39, 58, 58LT, 67
Port Connection	3/8"
Body Material	B17 (Forged Brass)
Orifice	10 (3/8")



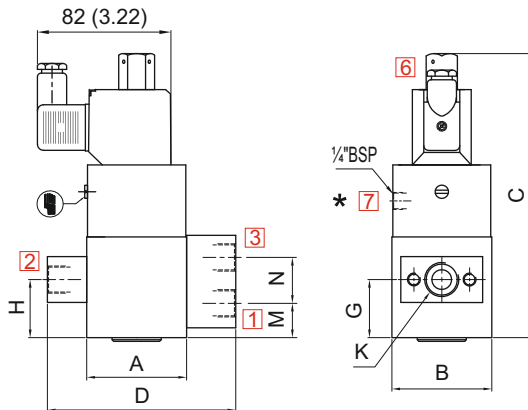
Valve Type	31119V01, 31120V01, 31209V01, 31210V01, I3003V01, I3005V01, P3001V01, P3003V01, P3007V01, 31120V01EP, 31210V01EP, P3009V01
Enclosure Type	17, 87, 66, 71
Port Connection	3/8"
Body Material	B17 (Forged Brass)
Orifice	10 (3/8")



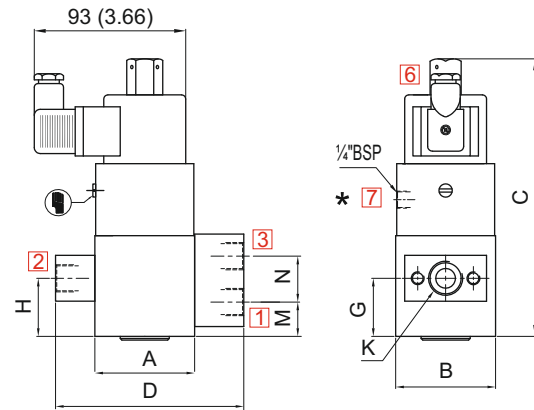
Valve Type	31119V01, 31120V01, 31209V01, 31210V01, P3001V01, P3003V01
Enclosure Type	16, 19, 37, 58, 58LT, 39
Port Connection	3/8"
Body Material	B17 (Forged Brass)
Orifice	10 (3/8")

3/2 INTERNAL/ EXTERNAL PILOT OPERATED, NORMALLY CLOSED/ OPEN SOLENOID VALVE

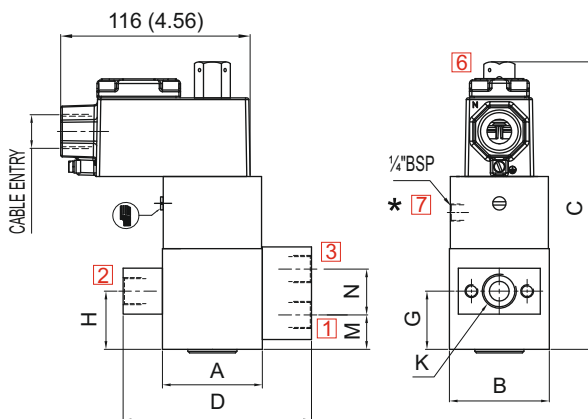
DIMENSIONS



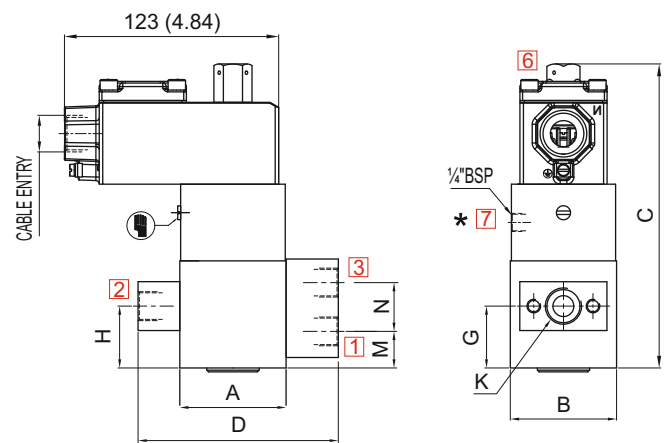
Valve Type	31119, 31120, 31209, 31210, 32301, P3001V01, P3003V01, P3006V01	
Enclosure Type	22	
Body Material	Aluminium, Brass, SS	Al, SS
Orifice	7 (7/32")	10 (3/8")
Port Connection	1/2", 3/8"	1/2"
★ PORT 7 only for valve type 32301 & P3006V01		



Valve Type	31119, 31120, 31209, 31210, 32301, I3003V01, I3004V01, I3005V01, P3001V01, P3003V01, 3006V01, P3007, P3008, P3009, 31120EP, 31210EP, 31121, 31206	
Enclosure Type	25, 65CR	
Body Material	Aluminium, Brass, SS	Al, SS
Orifice	7 (7/32")	10 (3/8")
Port Connection	1/2", 3/8"	1/2"
★ PORT 7 only for valve type 32301, P3006V01, I3004V01		



Valve Type	31119, 31120, 31209, 31210, 32301, P3001V01, P3003V01, P3006V01	
Enclosure Type	16, 19, 37, 39, 58, 58LT	
Body Material	Aluminium, Brass, SS	Al, SS
Orifice	7 (7/32")	10 (3/8")
Port Connection	1/2", 3/8"	1/2"
★ PORT 7 only for valve type 32301 & P3006V01		



Valve Type	31119, 31120, 31209, 31210, 32301, I3003V01, I3004V01, I3005V01, P3001V01, P3003V01, P3006V01, 31120EP, 31210EP, 31121, 31206, P3007, P3008, P3009	
Enclosure Type	16, 19, 37, 39, 58, 58LT, 67	
Body Material	Aluminium, Brass, SS	Al, SS
Orifice	7 (7/32")	10 (3/8")
Port Connection	1/2", 3/8"	1/2"
★ PORT 7 only for valve type 32301, P3006V01, P3008		

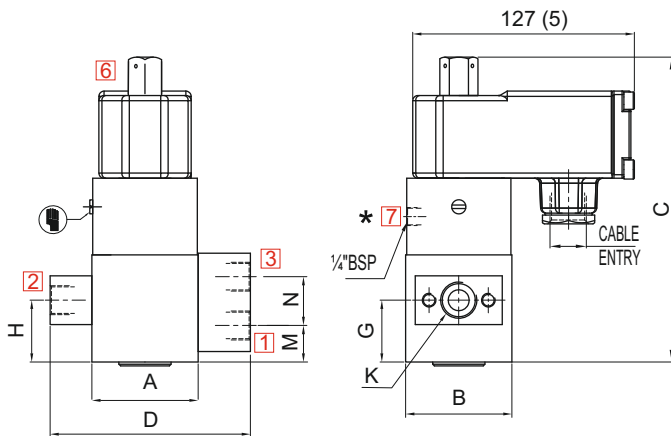
Valve Type: 31119, 31120, 31209, 31210, I3003V01, I3005V01, I3004V01, P3001V01, P3003V01, P3006V01, P3007, P3008, P3009, 31120EP, 32301, 31210EP									
NW	K	A	B	C	D	G	H	M	N
7 (7/32")	1/2", 3/8"	51 (2)	51 (2)	158 (6.22)	104 (4.09)	34 (1.33)	34 (1.33)	15 (0.59)	28 (1.10)
10 (3/8")	1/2"	61 (2.40)	61 (2.40)	175 (6.88)	115 (4.52)	36 (1.41)	36 (1.41)	21 (0.82)	28 (1.10)

Valve Type: 31121, 31206									
NW	K	A	B	C	D	G	H	M	N
7 (7/32")	1/2", 3/8"	51 (2)	51 (2)	168 (6.61)	104 (4.09)	34 (1.33)	34 (1.33)	15 (0.59)	28 (1.10)
10 (3/8")	1/2"	61 (2.40)	61 (2.40)	185 (7.28)	115 (4.52)	36 (1.41)	36 (1.41)	21 (0.82)	28 (1.10)

SERIES : 32P

3/2 INTERNAL/ EXTERNAL PILOT OPERATED, NORMALLY CLOSED/ OPEN SOLENOID VALVE

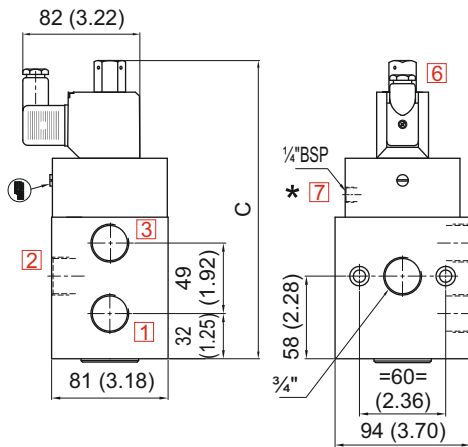
DIMENSIONS



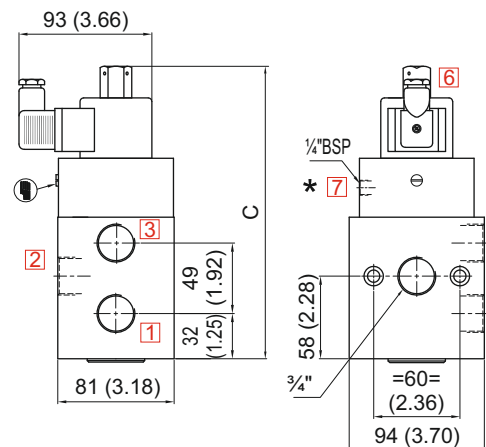
Valve Type	31119, 31120, 31209, 31210, 32301, I3003V01, I3004V01, I3005V01, P3001V01, P3003V01, P3006V01,P3007, P3008, P3009, 31120EP, 31210EP, 31121, 31206		
Enclosure Type	17, 87, 66, 71		
Body Material	Aluminium, Brass, SS		Al, SS
Orifice	7 (9/32")		10 (3/8")
Port Connection	1/2", 3/8"		1/2"
★ PORT 7 only for valve type 32301, P3006V01, P3008, I3004V01			

Valve Type:31119, 31120, 31209, 31210, I3003V01,I3005V01, I3004V01,P3001V01, P3003V01, 31120EP, 32301, 31210EP, P3007, P3008, P3009									
NW	K	A	B	C	D	G	H	M	N
7 (9/32")	1/2", 3/8"	51 (2)	51 (2)	158 (6.22)	104 (4.09)	34 (1.33)	34 (1.33)	15 (0.59)	28 (1.10)
10 (3/8")	1/2"	61 (2.40)	61 (2.40)	175 (6.88)	115 (4.52)	36 (1.41)	36 (1.41)	21 (0.82)	28 (1.10)

Valve Type:31121, 31206									
NW	K	A	B	C	D	G	H	M	N
7 (9/32")	1/2", 3/8"	51 (2)	51 (2)	168 (6.61)	104 (4.09)	34 (1.33)	34 (1.33)	15 (0.59)	28 (1.10)
10 (3/8")	1/2"	61 (2.40)	61 (2.40)	185 (7.28)	115 (4.52)	36 (1.41)	36 (1.41)	21 (0.82)	28 (1.10)



Valve Type	31119, 31120, 31209, 31210, 32301, P3001V01, P3003V01, P3006V01
Enclosure Type	22
Body Material	Aluminium, SS
Orifice	20 (3/4")
Port Connection	3/4"
★ PORT 7 only for valve type 32301, P3006V01	

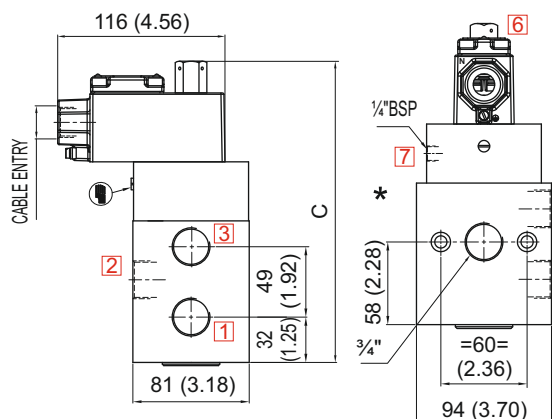


Valve Type	31119, 31120, 31209, 31210, 32301, I3003V01, I3004V01, I3005V01, P3001V01, P3003V01, P3006V01, P3007, P3008, P3009, 31120EP, 31210EP, 31121, 31206,
Enclosure Type	25, 65CR
Body Material	Aluminium, SS
Orifice	20 (3/4")
Port Connection	3/4"
★ PORT 7 only for valve type 32301, P3006V01, I3004V01	

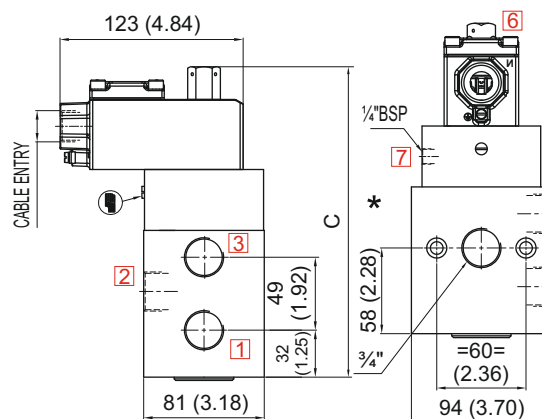
Valve Type	'C'
31119, 31120, 31209, 31210, 32301, I3003V01, I3005V01, I3001V01, I3004V01, P3001V01, P3003V01, P3006V01, P3007, P3008, P3009, 31120EP, 31210EP	208 (8.18)
31121, 31206	218 (8.58)

3/2 INTERNAL/ EXTERNAL PILOT OPERATED, NORMALLY CLOSED/ OPEN SOLENOID VALVE

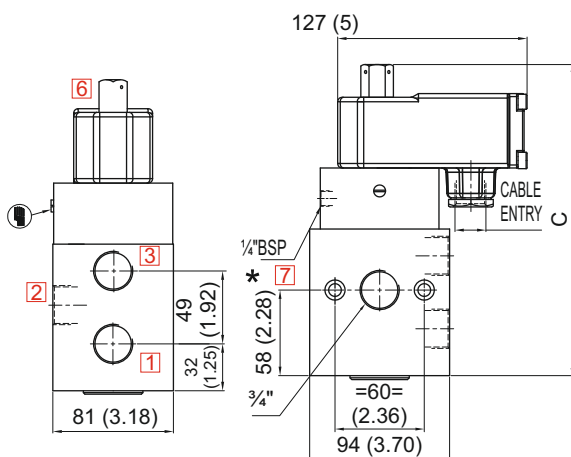
DIMENSIONS



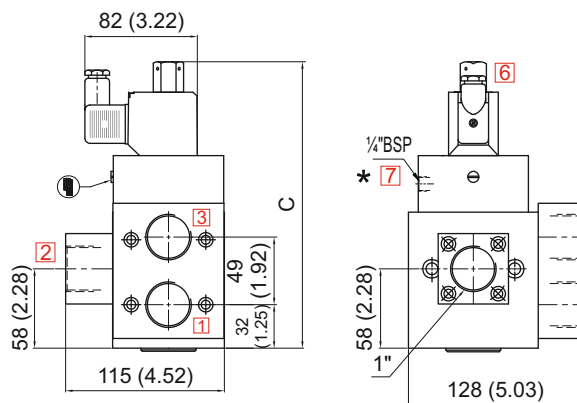
Valve Type	31119, 31120, 31209, 31210, 32301, P3001V01, P3003V01, P3006V01
Enclosure Type	16, 19, 37, 39, 58, 58LT
Body Material	Aluminium, SS
Orifice	20 (3/4")
Port Connection	3/4"
★ PORT 7 only for valve type 32301, P3006V01	



Valve Type	31119, 31120, 31209, 31210, I3003V01, I3004V01, I3005V01, P3001V01, P3003V01, P3006V01, P3007, P3008, P3009, 31120EP, 31121, 31206
Enclosure Type	16, 19, 37, 39, 58, 58LT, 67
Body Material	Aluminium, SS
Orifice	20 (3/4")
Port Connection	3/4"
★ PORT 7 only for valve type 32301, P3006V01, P3008, I3004V01	



Valve Type	31119, 31120, 31209, 31210, 32301, I3003V01, I3004V01, I3005V01, P3001V01, P3003V01, P3006V01, P3007, P3008, P3009, 31120EP, 31210EP, 31121, 31206
Enclosure Type	17, 87, 66, 71
Body Material	Aluminium, SS
Orifice	20 (3/4")
Port Connection	3/4"
★ PORT 7 only for valve type 32301, P3006V01, P3008, I3004V01	



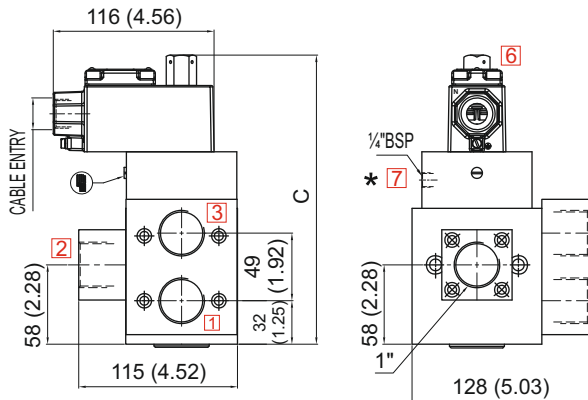
Valve Type	31119, 31120, 31209, 31210, 32301, P3001V01, P3003V01, P3006V01
Enclosure Type	22
Body Material	Aluminium, SS
Orifice	25 (1")
Port Connection	1"
★ PORT 7 only for valve type 32301, P3006V01	

Valve Type	'C'
31119, 31120, 31209, 31210, 32301, I3003V01, I3005V01, I3001V01, I3004V01, P3001V01, P3003V01, P3006V01, P3007, P3008, P3009, 31120EP, 31210EP	208 (8.18)
31121, 31206	218 (8.58)

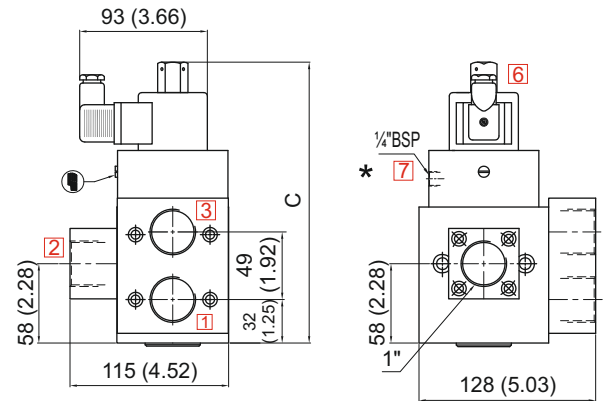
SERIES : 32P

3/2 INTERNAL/ EXTERNAL PILOT OPERATED, NORMALLY CLOSED/ OPEN SOLENOID VALVE

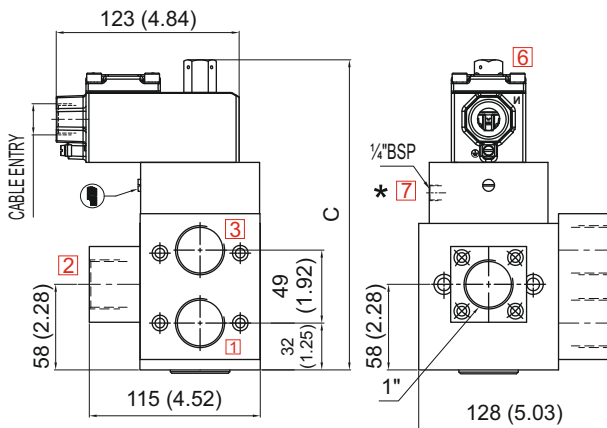
DIMENSIONS



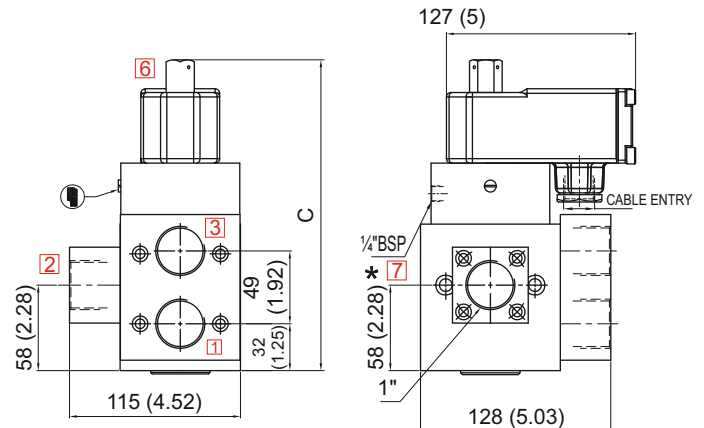
Valve Type	31119, 31120, 31209, 31210, 32301, I3003V01, P3003V01, P3006V01
Enclosure Type	16, 19, 37, 39, 58, 58LT
Body Material	Aluminium, SS
Orifice	25 (1")
Port Connection	1"
★ PORT 7 only for valve type 32301, P3006V01	



Valve Type	31119, 31120, 31209, 31210, 32301, I3003V01, I3004V01, I3005V01, P3001V01, P3003V01, P3006V01, P3007, P3008, P3009, 31120EP, 31210EP, 31121, 31206
Enclosure Type	25, 65CR
Body Material	Aluminium, SS
Orifice	25 (1")
Port Connection	1"
★ PORT 7 only for valve type 32301, P3006V01, P3008, I3004V01	



Valve Type	31119, 31120, 31209, 31210, 32301, I3003V01, I3004V01, I3005V01, P3001V01, P3003V01, P3006V01, P3007, P3008, P3009, 31120EP, 31210EP, 31121, 31206
Enclosure Type	16, 19, 37, 39, 58, 58LT, 67
Body Material	Aluminium, SS
Orifice	25 (1")
Port Connection	1"
★ PORT 7 only for valve type 32301, P3006V01, I3004V01	



Valve Type	31119, 31120, 31209, 31210, 32301, I3003V01, I3004V01, I3005V01, P3001V01, P3003V01, P3006V01, P3007, P3008, P3009, 31120EP, 31210EP, 31121, 31206
Enclosure Type	17, 87, 66, 71
Body Material	Aluminium, SS
Orifice	25 (1")
Port Connection	1"
★ PORT 7 only for valve type 32301, P3006V01, I3004V01	

Valve Type	'C'
31119, 31120, 31209, 31210, 32301, I3003V01, I3005V01, I3001V01, I3004V01, P3001V01, P3003V01, P3006V01, P3007, P3008, P3009, 31120EP, 31210EP	208 (8.18)
31121, 31206	218 (8.58)



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