Dexco

Motion Drive Control

MINI POWER PACKS

Assembling like a toy

INTRODUCTION

English version

Dexco is a global brand focused on automation made up of companies from different countries in Europe and Asia. The synergy between the R & D departments of these companies favors the development of new products with high quality, more competitive costs and production with execution in less time.

The factories that make up Dexco have already worked in partnerships with major German and American companies, of important brands recognized worldwide in the market, in the manufacture of their licensed products. It is from this experience that Dexco is born, assuring the same processes of manufacturing of the big brands, high quality standard and confidence of its products.

Dexco signed a technology transfer agreement

With Hidracomp to develop products, solutions and open new markets. This partnership aims to accelerate the presence and success of the Dexco brand in the Brazilian market.

Portuguese version

A Dexco é uma marca global focada em automação composta por empresas de diferentes países da Europa e Ásia. A sinergia entre os departamentos de R&D dessas empresas favorece o desenvolvimento de novos produtos com alta qualidade, custos mais competitivos e produção com execução em menor tempo.

As fábricas que compõem Dexco, já trabalharam em parcerias com grandes empresas Alemãs e Americanas, de importantes marcas reconhecidas mundialmente no mercado, na fabricação de seus produtos sob licença das mesmas. É dessa experiência que nasce a Dexco, assegurando os mesmos processos de fabricação das grandes marcas, alto padrão de qualidade e confiança de seus produtos.

A Dexco firmou acordo de transferência de tecnologia com a Hidracomp para desenvolvimento de produtos, soluções e abertura de novos mercados. Essa parceria tem como objetivo acelerar a presença e o sucesso da marca Dexco no mercado brasileiro.

APLICATIONS









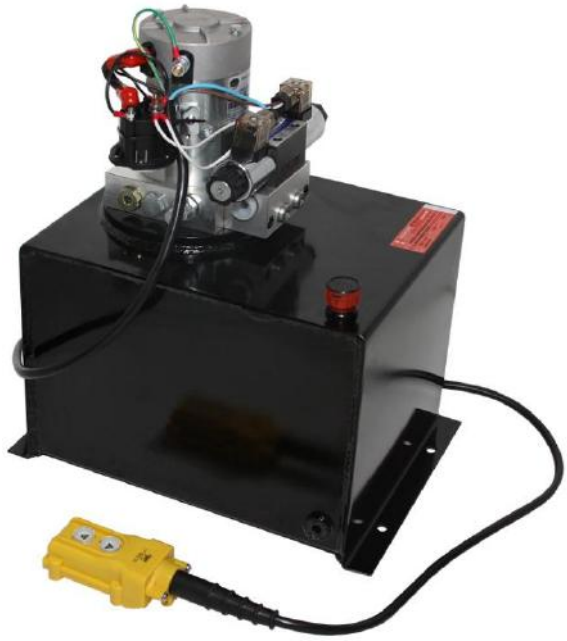








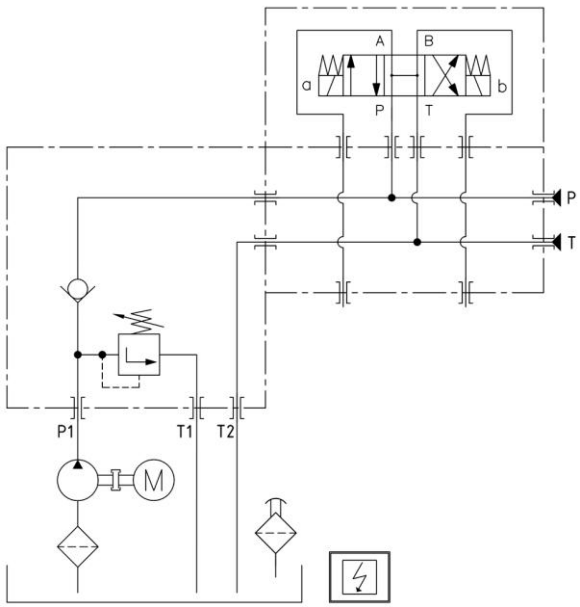
TYPICAL TYPE – TRAILER LANDING LEGS



DESCRIPTION

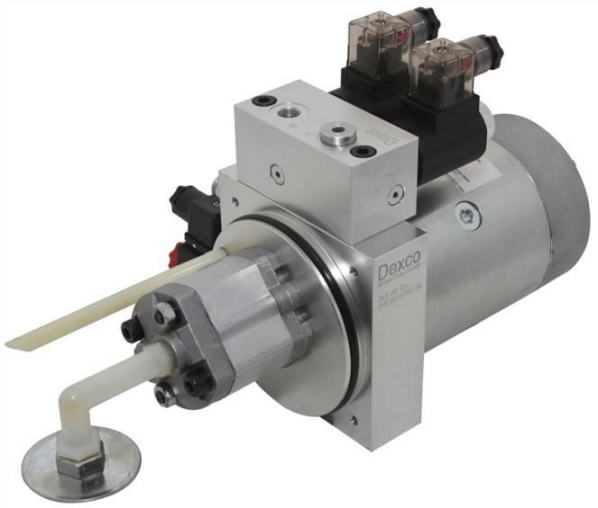
Made by Dexco, the power units for TRAILER LANDING LEGS TRUCKS are available on: 24VDC AND 12VDC motors. The system is double acting cylinders and when is off, lock the truck's legs trailer.
The system can be provided with electric system pendant to going up and going down.

HYDRAULIC CIRCUIT



APLICATION: TRAILER LANDING LEGS

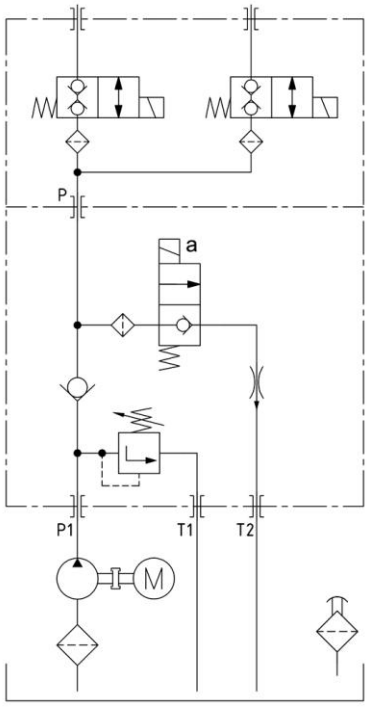
TYPICAL TYPE – TRAILER LANDING LEGS



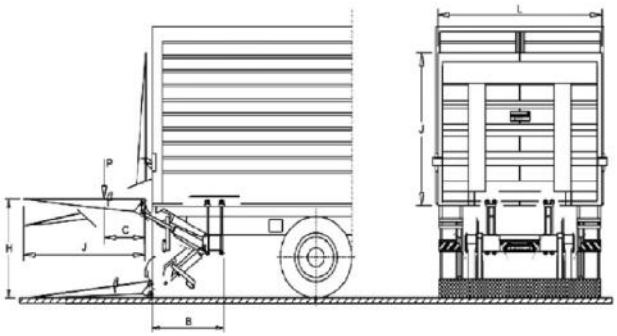
DESCRIPTION

Made by Dexco, the 12VDC and 24VDC power packs come in manual or solenoid-operated versions, for single acting cylinders, Double acting cylinders.
Several control types, with or without box type, is available for many DC, lift / hold / lower application.ers, TAIL LIFT PLATFORM system.

HYDRAULIC CIRCUIT



APLICATION: TAIL LIFT

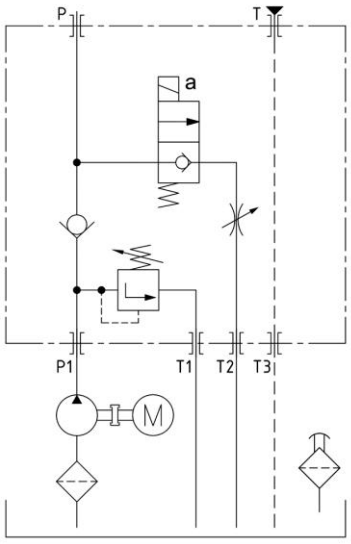


TYPICAL TYPE - ELEVATOR

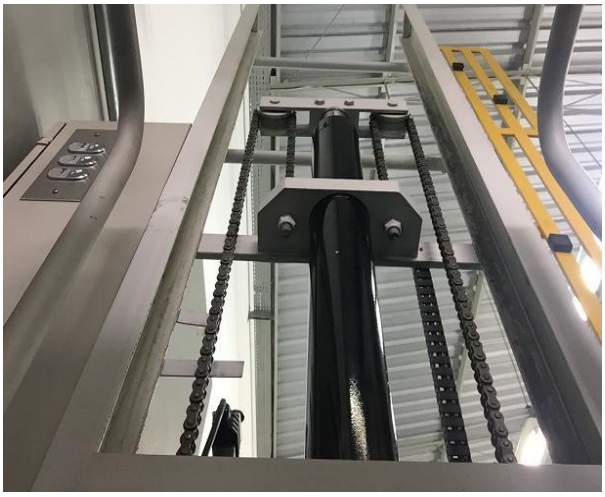
DESCRIPTION

Dexco provide power unit for various kind of elevators. On/ Off system and proportional comfort system also.
The AC and DC motors is available, as well as the entire safety system for this application.

HYDRAULIC CIRCUIT



APLICATION: ELEVATOR

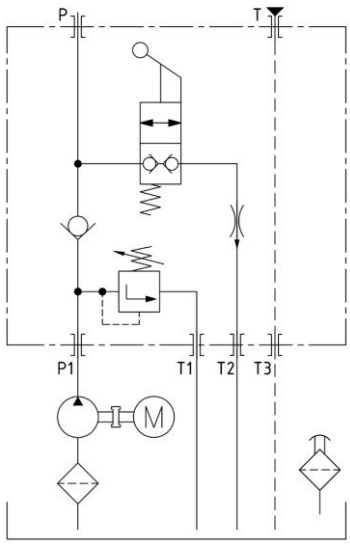


TYPICAL TYPE – STACKER

DESCRIPTION

Made by Dexco, the 12V and 24V DC power packs works, electric-power, go up / manual system, go down by gravity. STAKER power up/gravity down, is controlled by manual lever, and lowering speed is also controlled by lever angle.

HYDRAULIC CIRCUIT



APLICATION: STACKER

TYPICAL TYPE – 2 POST CAR LIFT

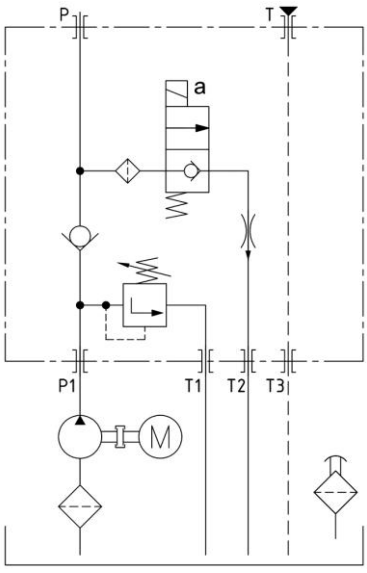
DESCRIPTION

Designed for, low and rise auto hoist, can be mounted either horizontally or vertically, for application of two post car lift.

A push button on the motor starts the unit to raise the vehicle on the lift.

To lower, a manually operated cartridge-style release valve is used for finger-tip control of lowering speed.

HYDRAULIC CIRCUIT



APLICATION: 2 POST CAR LIFT

TYPICAL TYPE – SCISSOR LIFT

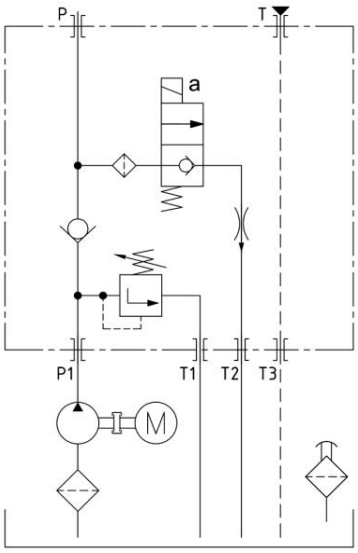
DESCRIPTION

Made by Dexco, the power units are available on: AC single phase, or AC three phase. Electric power to go up / solenoid or manual system to go down by gravity.

It the off position, the unit holds steady, locked.

A pressure compensated flow control valve keeps lowering speed Constant regardless of load, if is necessary.

HYDRAULIC CIRCUIT



APLICATION: SCISSOR LIFT

CODING INDEX

M	A	C	4	2	2	M	6	1	-	B	C	1	5	-	B	E	2	1	-	H	P	F	B	-	T	P	0	5	-	S	C	4	8	H	D	N
				1								2					3					4					5								6			

B	3	6	-	B	M	E	/	1	-	B	M	3	/	1	-	E	/	220V	/	1	-	D	1	4	8	D	N
		7				8						8					9					10					

**No. 1 ~ No.12: Code for building power pack.

**No. 13 ~ No.18: Code for special power pack & acessories.

HOW TO ORDER CODE INDEX

M	A	C	4	2	2	M	6	1	-	B	C	1	5	-	B	E	2	1	-	H	P	F	B	-	T	P	0	5	-	S	C	4	8	H	D	N
1										2					3					4					5					6							

B	3	6	-	B	M	E	/	1	-	B	M	3	/	1	-	E	/	220V	/	1	-	D	1	4	8	D	N
7				8						8						9						10					

Item	AC - Power pack ordering code example	DC - Power pack ordering code example
1. Motor	AC 3phase - 230/380V - 4pole - 1.5Kw - 50/60Hz - S1	DC 24V - 2.2Kw - Start relay 24V, 150A
2. Center block	"BC1" Center block - Diagram No.5 - Relief valve	"BC1" Center block - Diagram No.1 - Relief valve
3. Pump	Gear pump - 2.1cc/rev	Gear pump - 0.8cc/rev Adaptor plate 007010-UD-10
4. Mounting	Horizontal mounting - Air breather position is to P, T ports. - Terminal box position is to cartridge - With bracket	Horizontal mounting - Air breather position is to P, T ports. - Start relay position is to cartridge - Without bracket
5. Oil tank	Plastic material - "BC" center block - Capacity 5l	Plastic material - "BC" center block - Capacity 8l
6. Built-in	Solenoid valve (normally closed) - AC 220V - Cavity 08-2 - Din connector	Blank
7. Pressure compensated fixed flow control valve	3,6l/min	Blank
8. Directional sandwich block (for double acting cylinder)	Block for Cetop 3 valve	Block for Cetop 3 valve - Quantity 2pcs
9. Directional valve	"E" diagram - AC 220V - Cetop 3	"E" diagram - DC 24V - Cetop 3 - Quantity 2pcs
10. Solenoid sandwich valve	One single acting cylinder - AC	Blank

M	D	C	2	2	2	C	2	-	B	C	1	1	-	B	E	P	0	8	P	A	-	H	P	F	x	-	T	P	0	8
1									2					3								4					5				

X	X	X	X	X	X	X	-	X	X	X	-	B	M	F	/	2	-	E	/	24V	/	2	-	X	X	X	X	X	X
6								7				8						9						10					

1 | M | D | C | | 2 | 2 | 2 | C | 2 |
A | | B | C | D | | E

DC MOTOR

A	CODE	MDC	
	TYPE	DC-Motor	

B	CODE	Omit	B
	FLANGE	NO	YES

C	CODE	1	2
	VOLTAGE (V)	12	24

D	CODE	08	16	20	22
	POWER (W)	800	1600	2000	2200

E	START RELAY	Please refer to page 15 for start relay code

DC - MOTOR CODE & INFORMATION

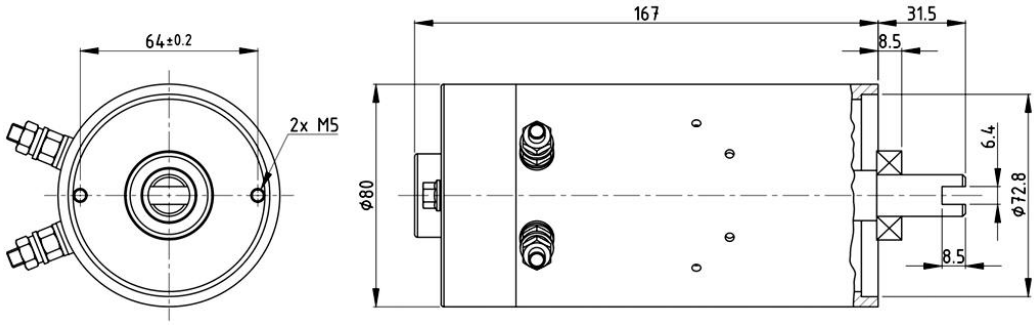
CODE	VOLTAGE (V)	POWER (W)	INSULATION CLASS	ROTATION	FLANGE	PAGE
MDC108	12	800	F	↔	No	12
MDCB208	24	800	F	↔	Yes	13
MDC116	12	1600	F	↔	No	14
MDC120	12	2000	F	↔	No	15
MDC222	24	2200	F	↔	No	16

1 | M | D | C | | 1 | 0 | 8 | X | X |
A | B | C | D | E

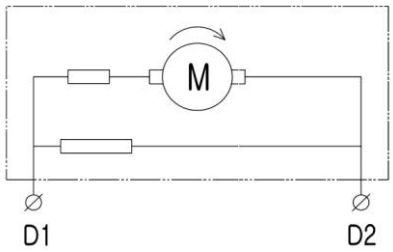
DC MOTOR

Code	Voltage (V)	Power (W)	Rated Current (A)	Torque	Duty Cycles S2min-S3%	Insulation Class	Protection Grade	Number of Terminals	Rotation
MDC108	12	800	130	2.2 N.m	3min-7%ED	F	IP 65	2	C.W & C.CW ↔

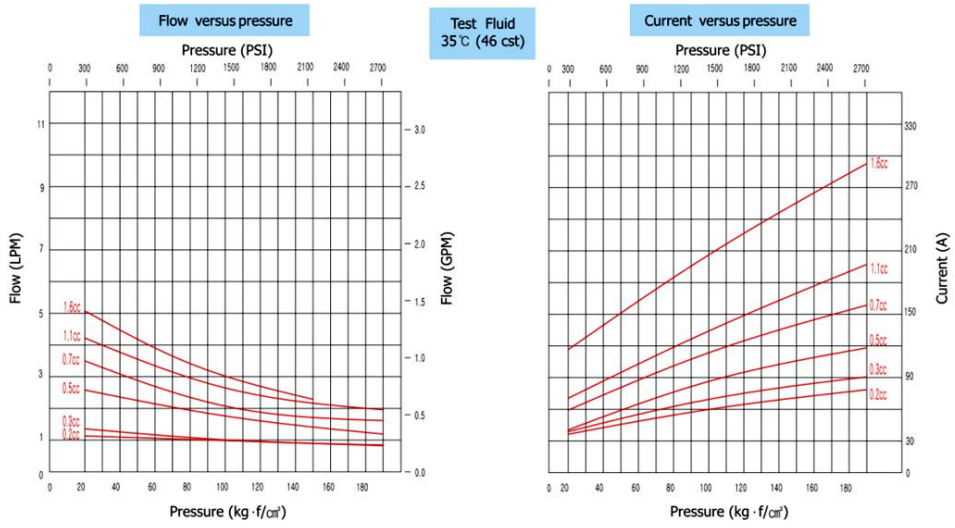
DIMENSION



WIRING DIAGRAM



PERFORMANCE CURVE

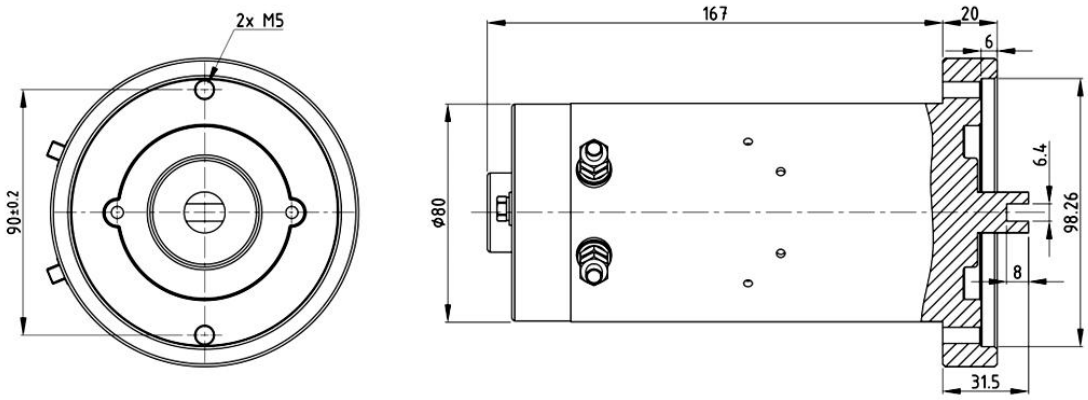


1	M	D	C	B	2	0	8	X	X
A			B	C	D		E		

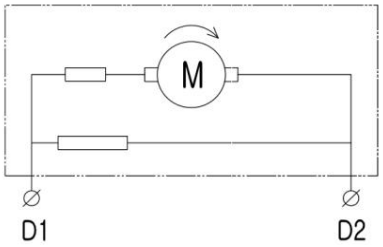
DC MOTOR

Code	Voltage (V)	Power (W)	Rated Current (A)	Torque	Duty Cycles S2min-S3%	Insulation Class	Protection Grade	Number of Terminals	Rotation
MDCB208	24	800	150	2.67N.m	1.8min-7%ED	F	IP 54	2	C.W & C.CW ↔

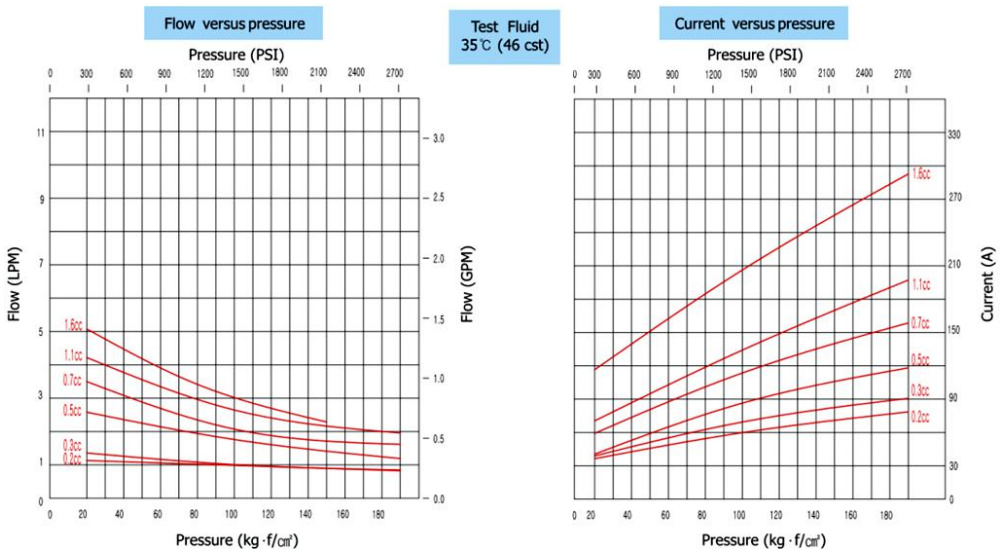
DIMENSION



WIRING DIAGRAM



PERFORMANCE CURVE

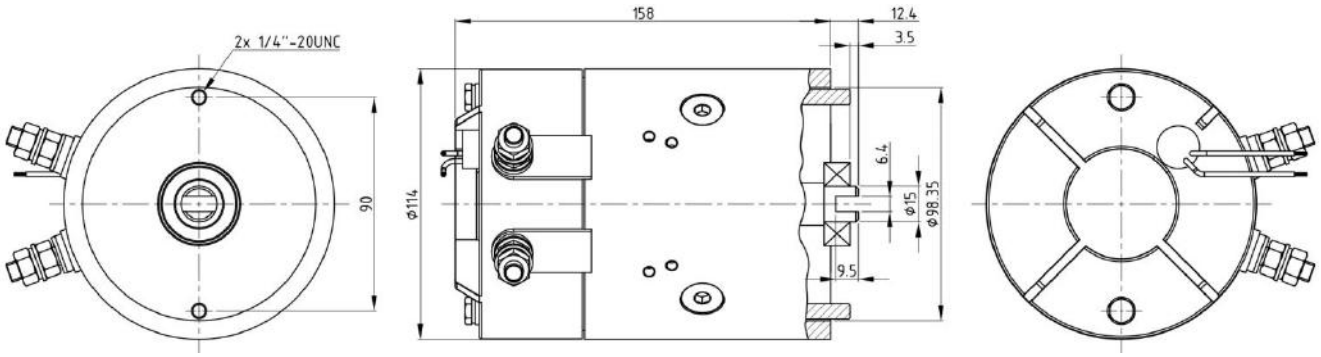


1 | M | D | C | | 1 | 1 | 6 | X | X |
A | | B | C | D | | E

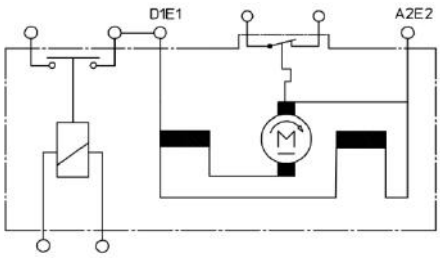
DC MOTOR

Code	Voltage (V)	Power (W)	Rated Current (A)	Torque	Duty Cycles S2min-S3%	Insulation Class	Protection Grade	Number of Terminals	Rotation
MDC116	12	1600	150	6.0 N.m	3min-7.5%ED	F	IP 54	2	C.W & C.CW ↔

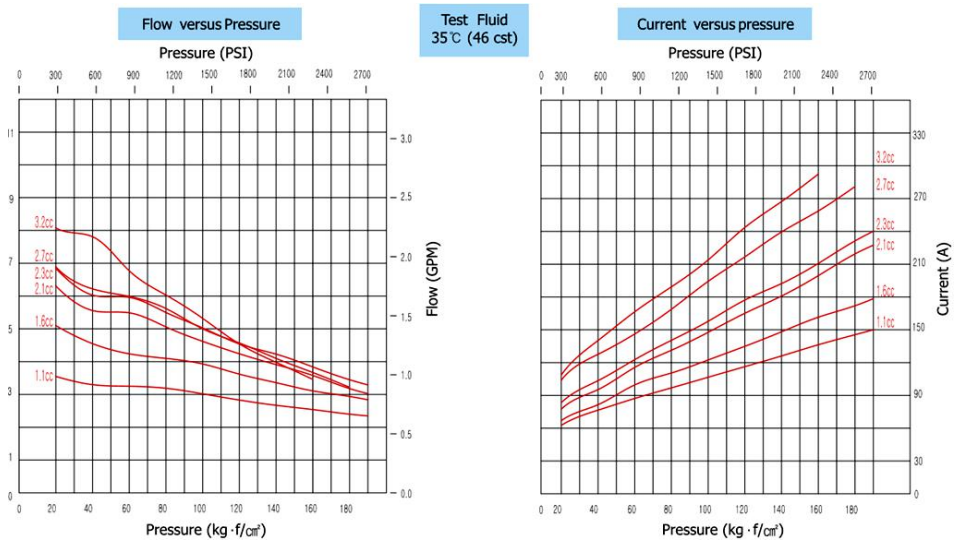
DIMENSION



WIRING DIAGRAM



PERFORMANCE CURVE

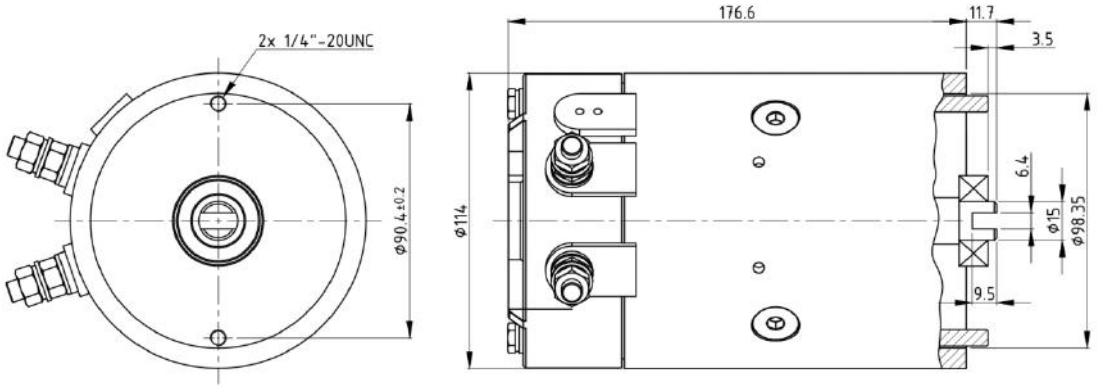


1 | M | D | C | | 1 | 2 | 0 | X | X |
A | | B | C | D | E

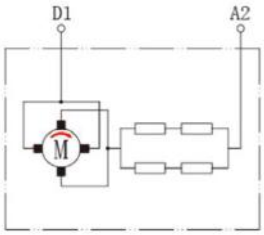
DC MOTOR

Code	Voltage (V)	Power (W)	Rated Current (A)	Torque	Duty Cycles S2min-S3%	Insulation Class	Protection Grade	Number of Terminals	Rotation
MDC120	12	2000	260	9.0 N.m	8.0min-10%ED	F	IP 54	2	C.W & C.CW ↔

DIMENSION



WIRING DIAGRAM



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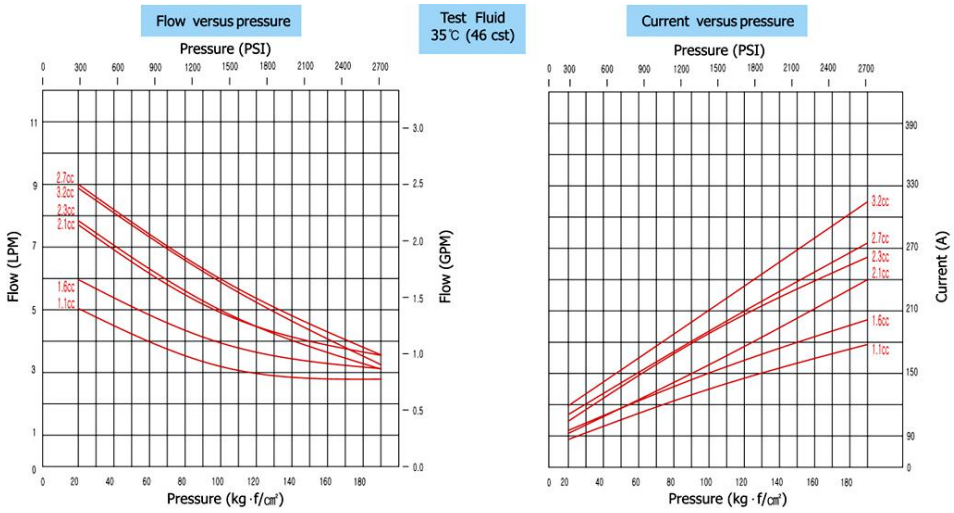
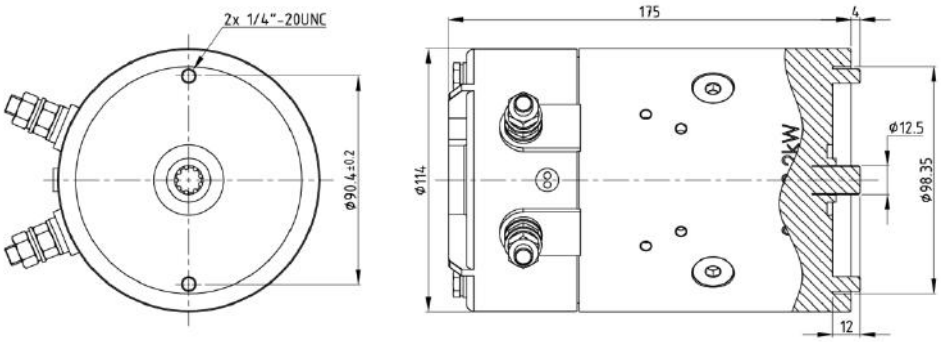


1 | M | D | C | | 2 | 2 | 2 | X | X |
A | | B | C | D | | E

DC MOTOR

Code	Voltage (V)	Power (W)	Rated Current (A)	Torque	Duty Cycles S2min-S3%	Insulation Class	Protection Grade	Number of Terminals	Rotation
MDC222	24	2200	150	8.0N.m	2.5min-7%ED	F	IP 54	2	C.W & C.CW ↔

DIMENSION



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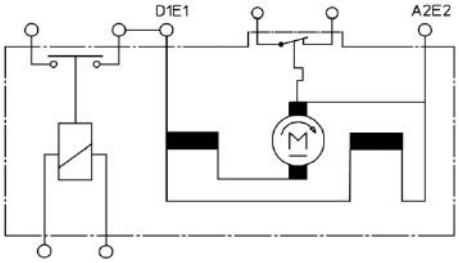

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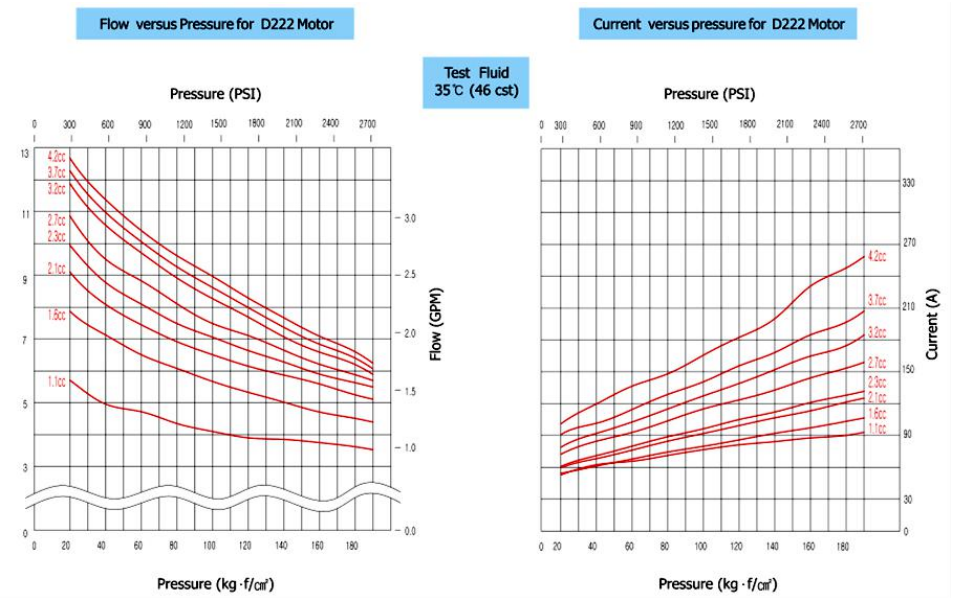
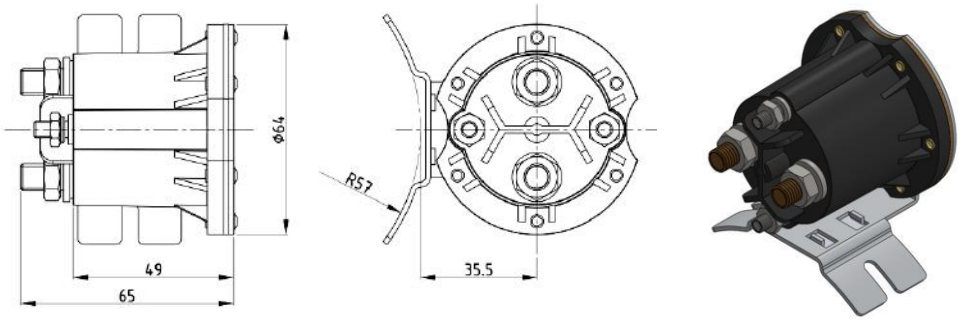


1 | X | X | X | X | X | X | C | 2 |
A | B | C | D

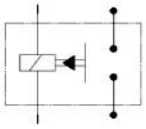
START RELAY

D - Code	Voltage	Max ON TIME	Resistive load carry	Interrupt current	Peak inductive inrush current	Electrical cycle life
C1	12V	6 min	150A	250A	800	100000
C2	24V	6 min	150A	250A	800	60000

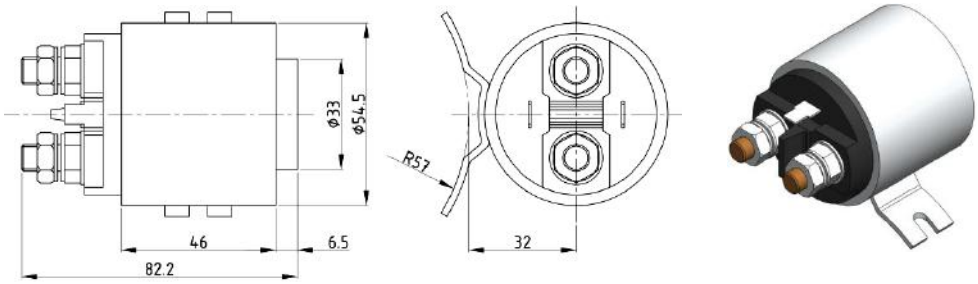
DIMENSION



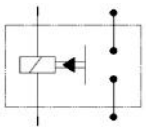
DIAGRAM



DIMENSION - MODEL FOR 1,6 kW



DIAGRAM



1	M	A	C	4	1	5	T	5	6	2			
	A			B	C		D	E		F	G	H	

AC MOTOR

A	CODE	MAC		
	TYPE	AC-Motor		

B	CODE	2	4	6
	POLE	2 pole	4 pole	6 pole

C	CODE	01	03	07	10	15	18	22	30	40
	POWER (kW)	0.18	0.37	0.75	1.0	1.5	1.8	2.2	3.0	4.0

D	CODE	M	T
	PHASE	1Φ	3Φ

E	CODE	6	56
	FREQUENCY	60Hz	50/60Hz

F	CODE	1	2	3
	DUTY CYCLE	S1	S2	S3

G	CODE	Omit	X
	VOLTAGE (V)	220/380 or 220	254/440

H	CODE	Omit	NF
	COOLER	with fan	no fan

AC - MOTOR CODE & INFORMATION

CODE	VOLTAGE (V)	POWER (kW)	FREQUENCY (Hz)	INSULATION CLASS	FRAME SIZE	PAGE
MAC207T563NF	220/380	0.75	50/60	F	71	19
MAC240T562	220/380	4.0	50/60	F	90	20
MAC403T562	220/380	0.37	50/60	F	80	21
MAC407T562	230/400	0.75	50/60	F	80	22
MAC415T562	220/380	1.5	50/60	F	90	23
MAC418T562	220/380	1.8	50/60	F	90	24
MAC422T562	220/380	2.2	50/60	F	90	25
MAC430T562	220/380	3.0	50/60	F	90	26
MAC415T562X	254/440	1.5	50/60	F	90	27
MAC422T562X	254/440	2.2	50/60	F	90	28
MAC430T562X	254/440	3.0	50/60	F	90	29
MAC407M62	220	0.75	60	F	80	30
MAC418M62	220	1.8	60	F	90	31
MAC422M61	220	2.2	60	F	90	32

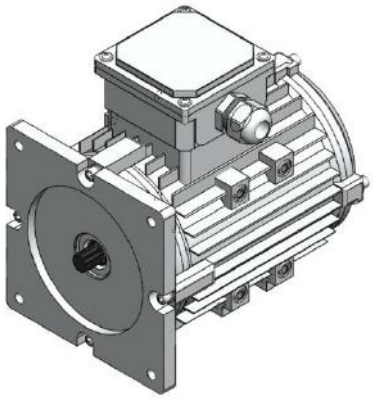
1 | M | A | C | 2 | 0 | 7 | T | 5 | 6 | 3 | N | F |
A | B | C | D | E | F | H

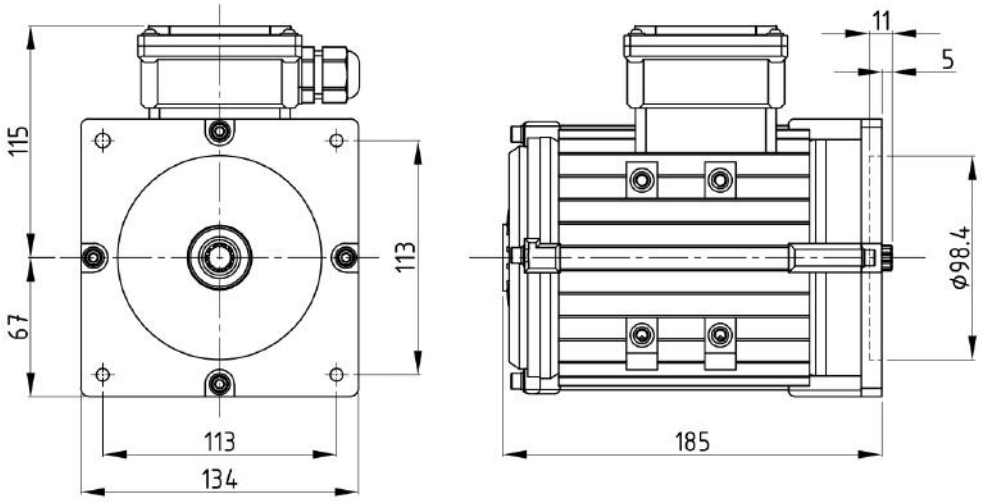
AC MOTOR

A	B	C	D	E	F	H
AC-Motor	Pole	Power (kW)	Phase	Frequency (Hz)	Duty Cycle	Cooler
MAC207T563NF	2	0.75	3Φ	50/60	S3	without cooler

Speed (rpm)	Voltage (V)	Insulation Class	Protection Grade	Rated Current (A)	Frame Size	Rotation
2840/3410	220/380	F	IP 54	3.2/1.9 (50Hz) 2.8/1.5 (60Hz)	71	C.W. →

DIMENSION





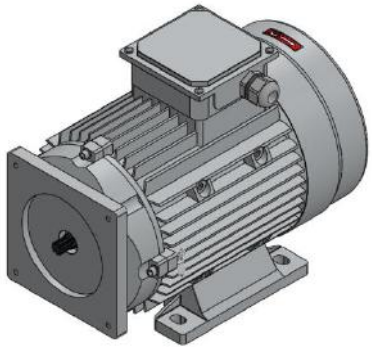
1 | M | A | C | 2 | 4 | 0 | T | 5 | 6 | 2 |
|---|---|---|---|---|---|---|---|---|---|
| | A | | B | C | D | E | | F | | |

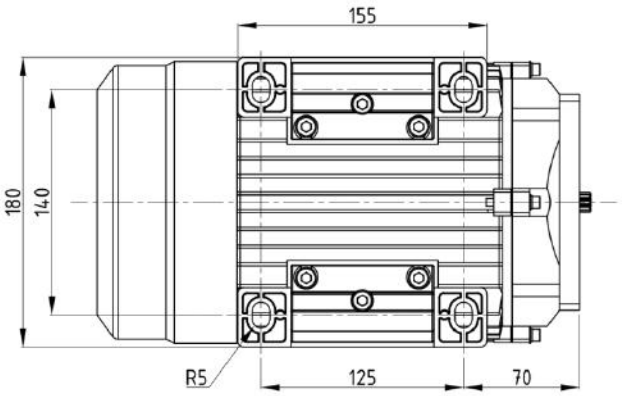
AC MOTOR

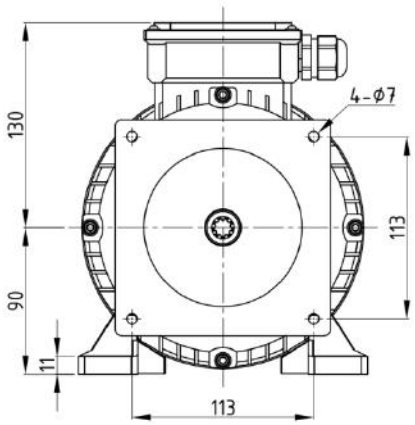
A	B	C	D	E	F
AC-Motor	Pole	Power (kW)	Phase	Frequency (Hz)	Duty Cycle
MAC240T562	2	4.0	3Φ	50/60	S2

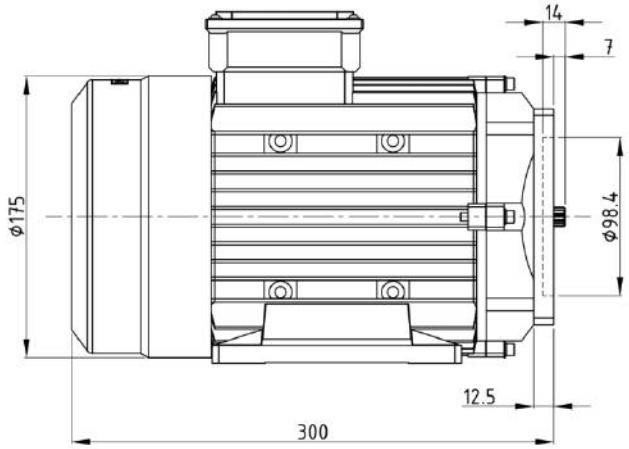
Speed (rpm)	Voltage (V)	Insulation Class	Protection Grade	Rated Current (A)	Frame Size	Rotation
2880/3450	220/380	F	IP 54	14.5/8.4 (50Hz) 13.3/7.2 (60Hz)	90	C.W. →

DIMENSION









1

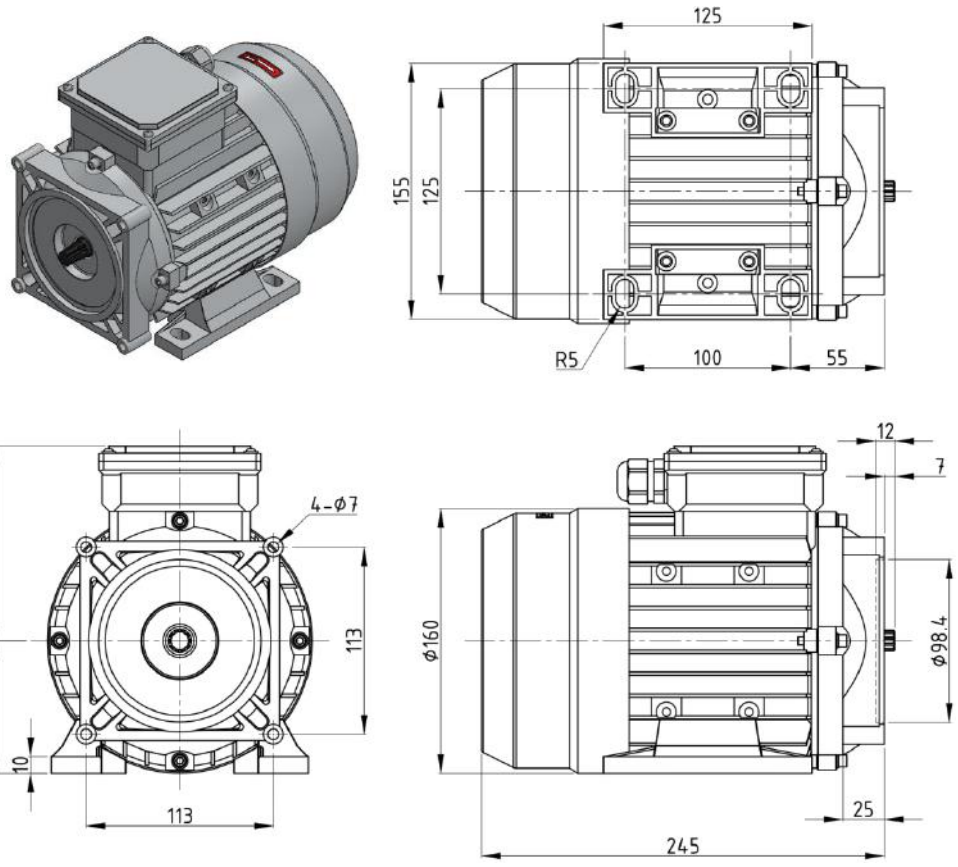
M	A	C	4	0	3	T	5	6	2
A			B	C		D	E		F

AC MOTOR

A	B	C	D	E	F
AC-Motor	Pole	Power (kW)	Phase	Frequency (Hz)	Duty Cycle
MAC403T562	4	0.37	3Φ	50/60	S2

Speed (rpm)	Voltage (V)	Insulation Class	Protection Grade	Rated Current (A)	Frame Size	Rotation
1420/1720	220/380	F	IP 54	3.1/1.8	80	C.W. →

DIMENSION



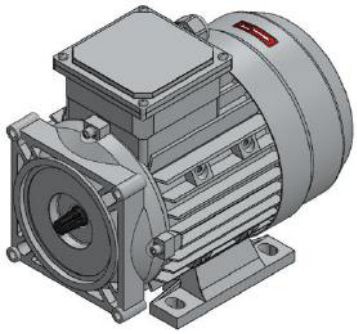
1 AC MOTOR

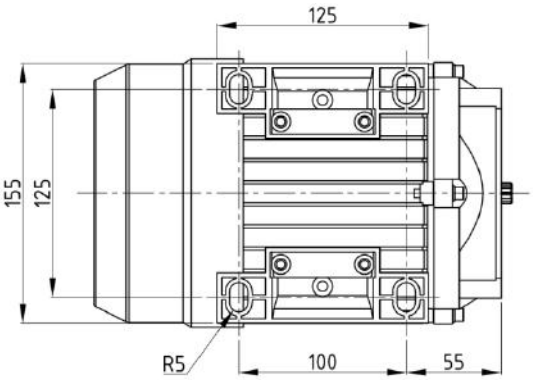
M	A	C	4	0	7	T	5	6	2
A			B	C		D	E		F

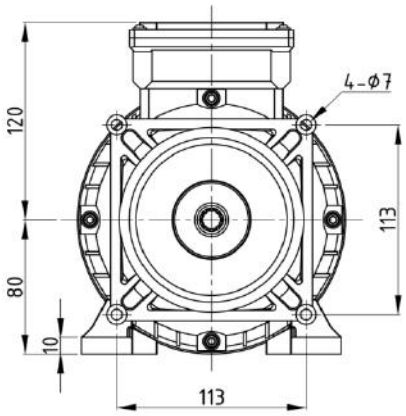
A	B	C	D	E	F
AC-Motor	Pole	Power (kW)	Phase	Frequency (Hz)	Duty Cycle
MAC407T562	4	0.75	3Φ	50/60	S2

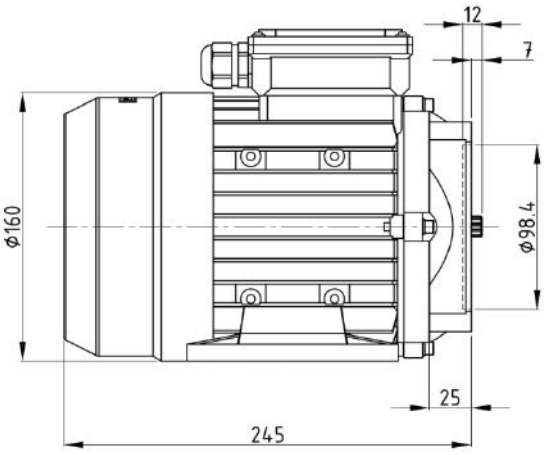
Speed (rpm)	Voltage (V)	Insulation Class	Protection Grade	Rated Current (A)	Frame Size	Rotation
1420/1720	230/400	F	IP 54	4.5/2.6	80	C.W. →

DIMENSION







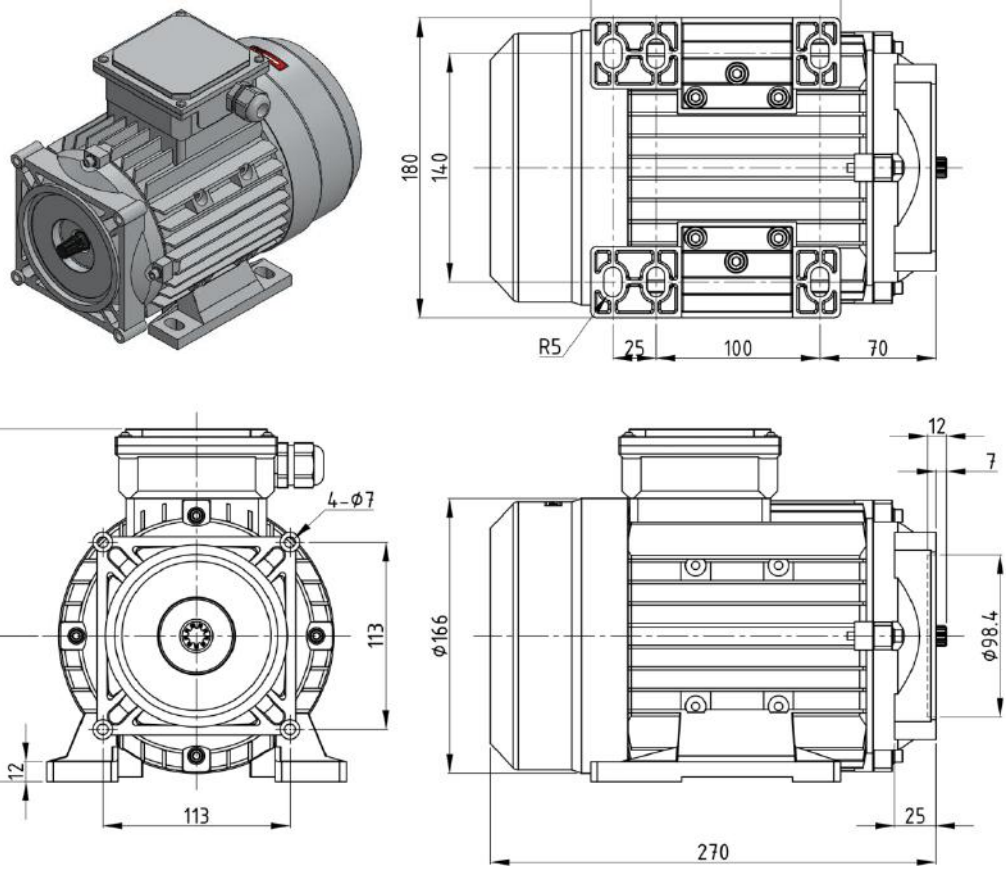


1 M A C 4 1 5 T 5 6 2 — AC MOTOR

A	B	C	D	E	F
AC-Motor	Pole	Power (kW)	Phase	Frequency (Hz)	Duty Cycle
MAC415T562	4	1.5	3Φ	50/60	S2

Speed (rpm)	Voltage (V)	Insulation Class	Protection Grade	Rated Current (A)	Frame Size	Rotation
1420/1720	220/380	F	IP 54	6.2/3.6	90	C.W. →

DIMENSION



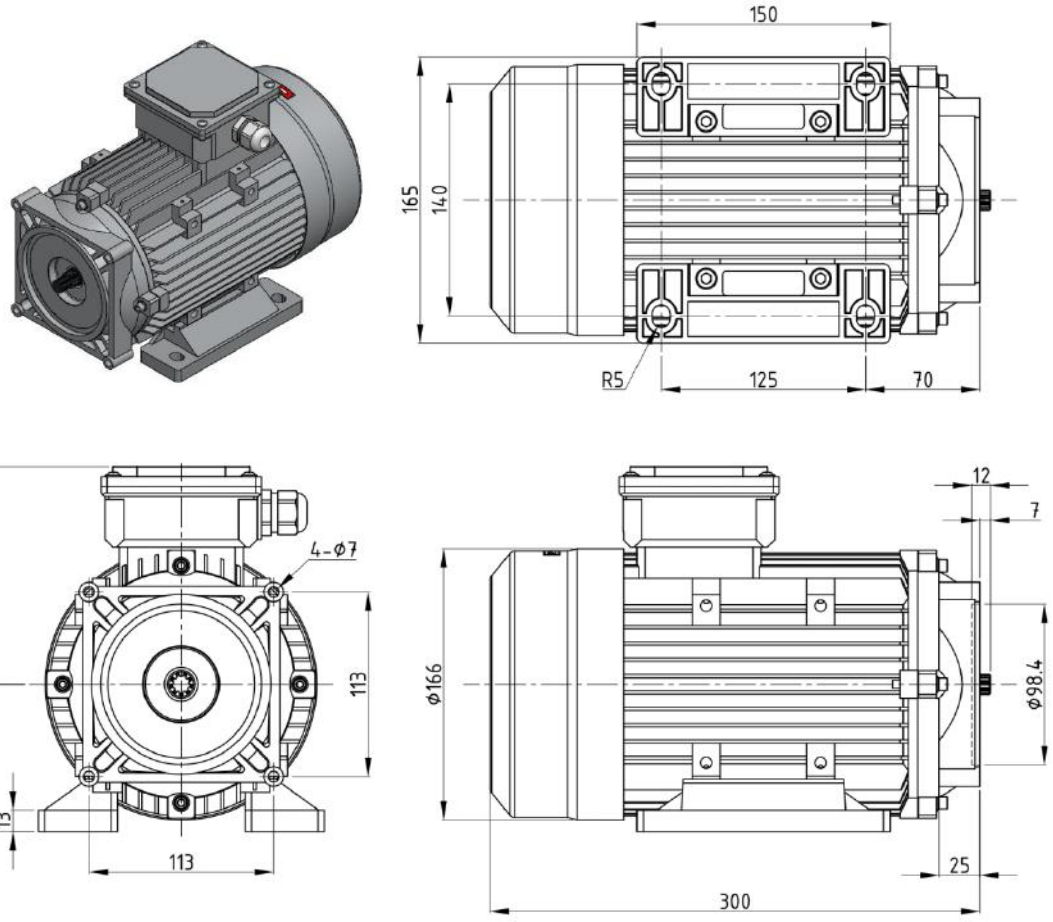
1 | M | A | C | 4 | 1 | 8 | T | 5 | 6 | 2 |
A | B | C | D | E | F

AC MOTOR

A	B	C	D	E	F
AC-Motor	Pole	Power (kW)	Phase	Frequency (Hz)	Duty Cycle
MAC418T562	4	1.8	3Φ	50/60	S2

Speed (rpm)	Voltage (V)	Insulation Class	Protection Grade	Rated Current (A)	Frame Size	Rotation
1420/1720	220/380	F	IP 54	7.5/4.4 (50Hz) 6.8/3.7 (60Hz)	90	C.W. →

DIMENSION



1

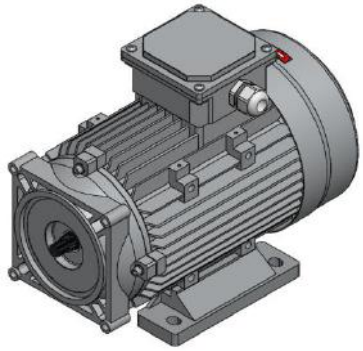
M	A	C	4	2	2	T	5	6	2
A			B	C		D	E		F

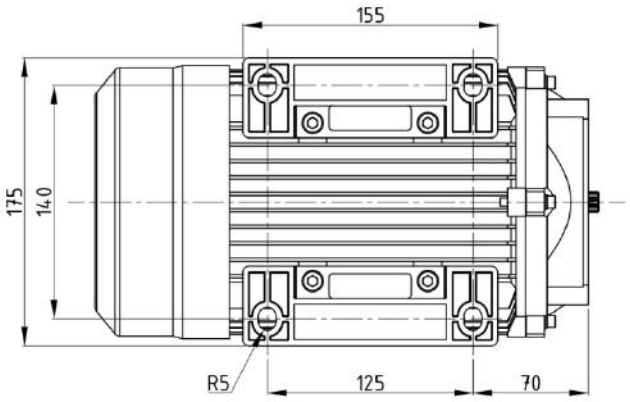
AC MOTOR

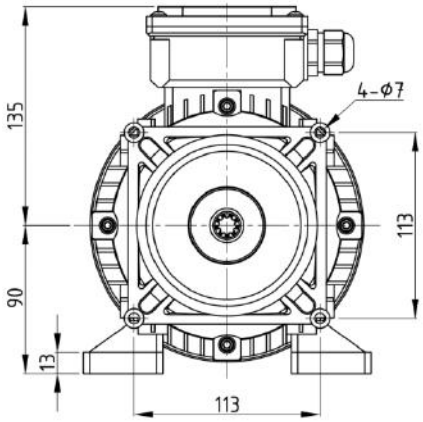
A	B	C	D	E	F
AC-Motor	Pole	Power (kW)	Phase	Frequency (Hz)	Duty Cycle
MAC422T562	4	2.2	3Φ	50/60	S2

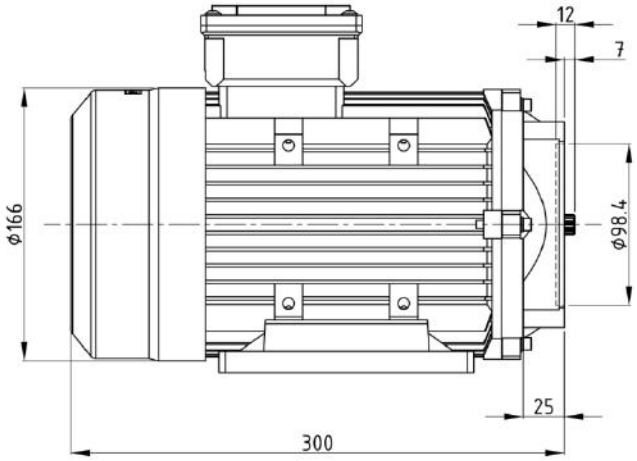
Speed (rpm)	Voltage (V)	Insulation Class	Protection Grade	Rated Current (A)	Frame Size	Rotation
1420/1720	220/380	F	IP 54	8.8/5.1	90	C.W. →

DIMENSION









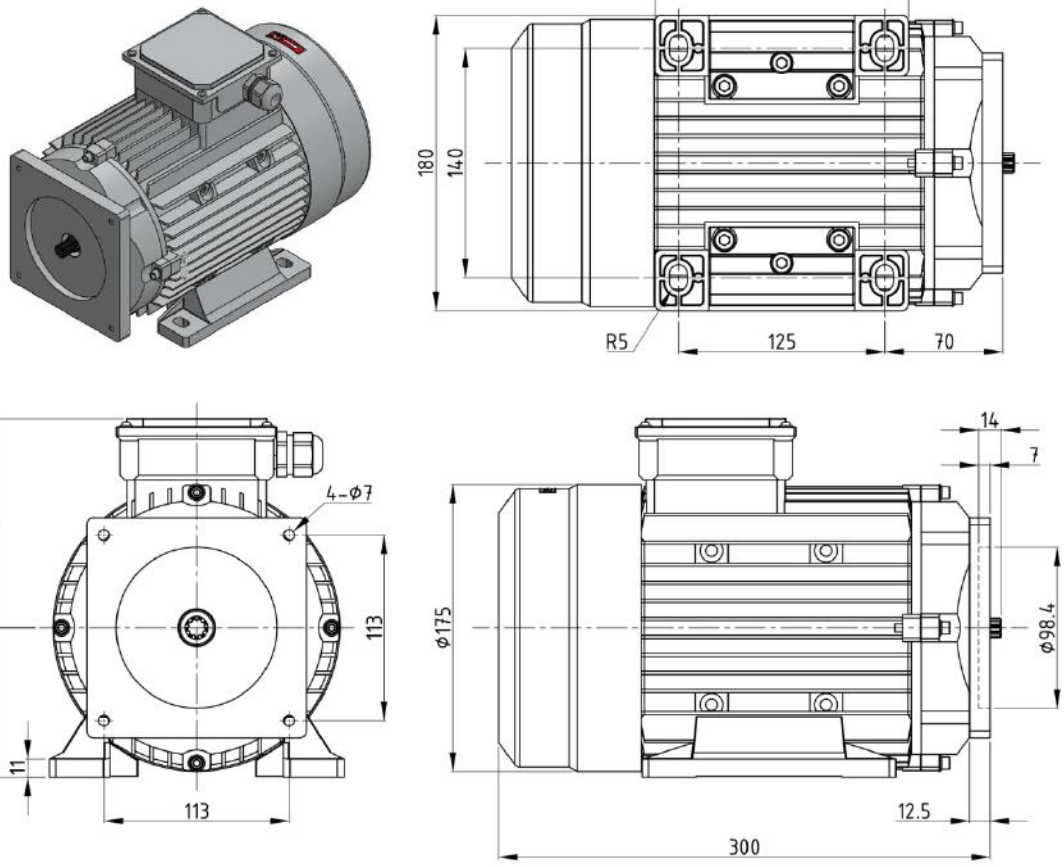
1 MAC430T562 — AC MOTOR

M A C	4	3	0	T	5	6	2
A	B	C	D	E	F		

A	B	C	D	E	F
AC-Motor	Pole	Power (kW)	Phase	Frequency (Hz)	Duty Cycle
MAC430T562	4	3.0	3Φ	50/60	S2

Speed (rpm)	Voltage (V)	Insulation Class	Protection Grade	Rated Current (A)	Frame Size	Rotation
1420/1720	220/380	F	IP 54	13/7.5	90	C.W. →

DIMENSION



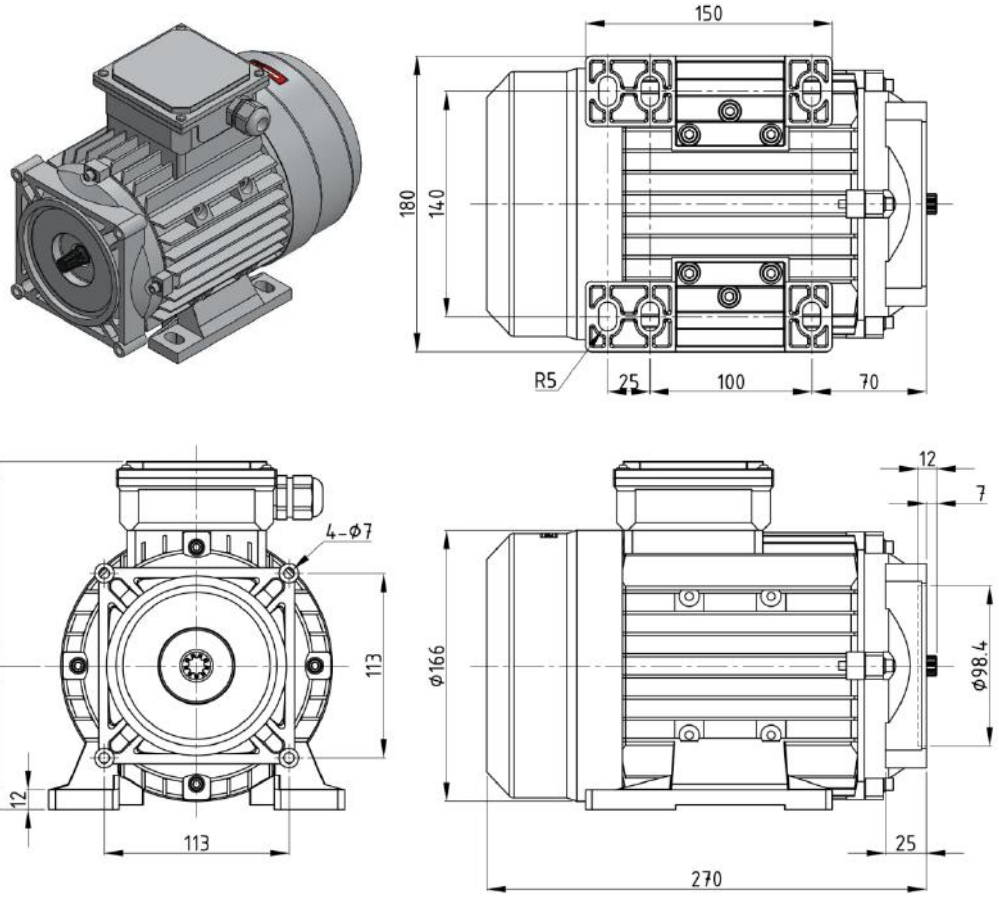
1 AC MOTOR

M	A	C	4	1	5	T	5	6	2	X
A			B	C		D	E		F	G

A	B	C	D	E	F	G
AC-Motor	Pole	Power (kW)	Phase	Frequency (Hz)	Duty Cycle	Voltage (V)
MAC415T562X	4	1.5	3Φ	50/60	S2	254/440

Speed (rpm)	Insulation Class	Protection Grade	Rated Current (A)	Frame Size	Rotation
1420/1720	F	IP 54	7.0/4.0	90	C.W. →

DIMENSION



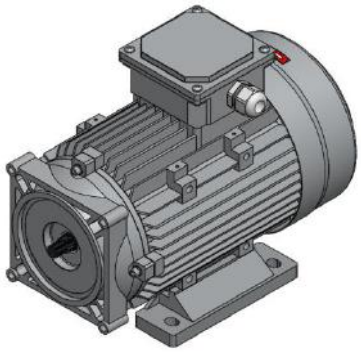
1	M	A	C	4	2	2	T	5	6	2	X
	A			B	C		D	E		F	G

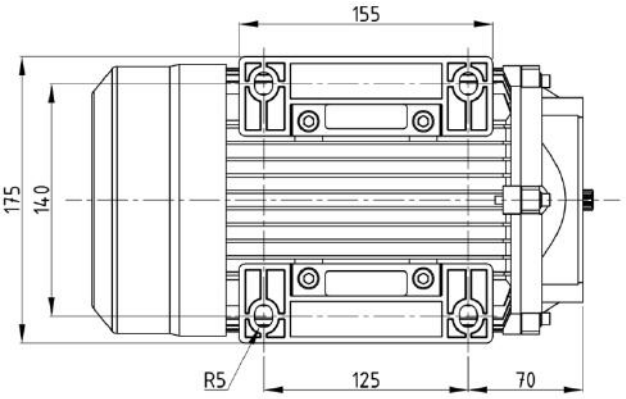
AC MOTOR

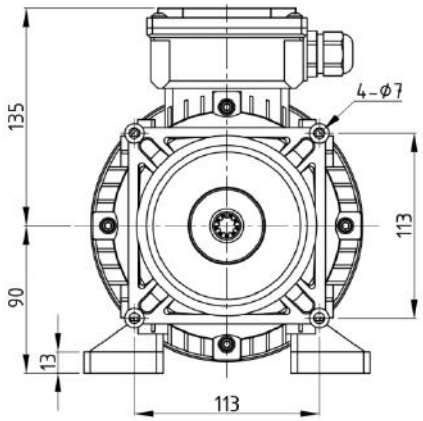
A	B	C	D	E	F	G
AC-Motor	Pole	Power (kW)	Phase	Frequency (Hz)	Duty Cycle	Voltage (V)
MAC422T562X	4	2.2	3Φ	50/60	S2	254/440

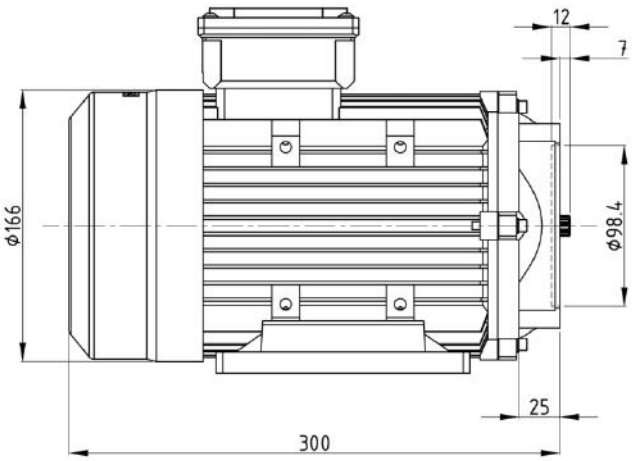
Speed (rpm)	Insulation Class	Protection Grade	Rated Current (A)	Frame Size	Rotation
1420/1720	F	IP 54	9.5/5.4	90	C.W. →

DIMENSION









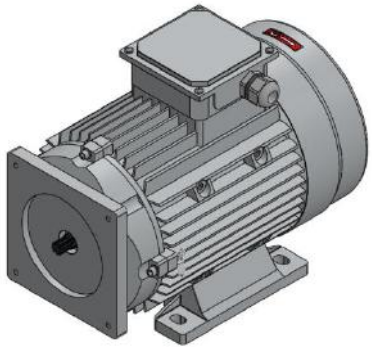
1 M A C 4 3 0 T 5 6 2 X
A B C D E F G

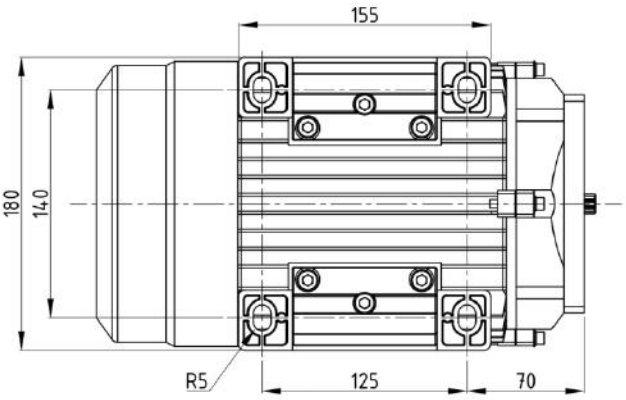
AC MOTOR

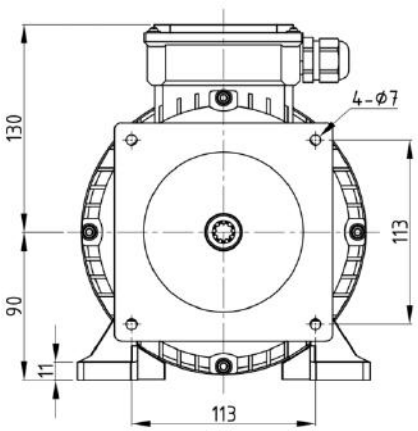
A	B	C	D	E	F	G
AC-Motor	Pole	Power (kW)	Phase	Frequency (Hz)	Duty Cycle	Voltage (V)
MAC430T562X	4	3.0	3Φ	50/60	S2	254/440

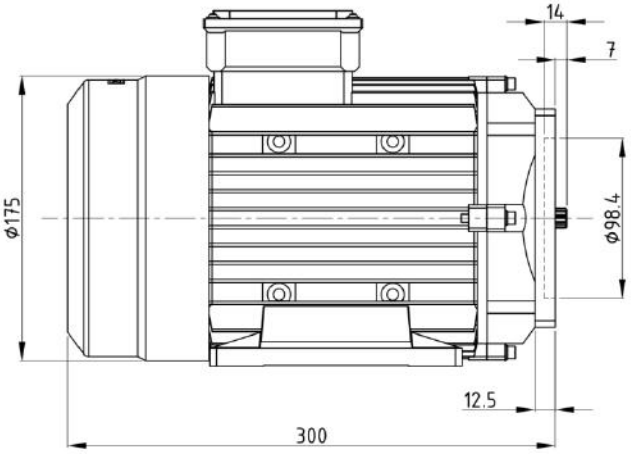
Speed (rpm)	Insulation Class	Protection Grade	Rated Current (A)	Frame Size	Rotation
1420/1720	F	IP 54	11.0/7.0	90	C.W. →

DIMENSION









1 M A C 4 0 7 M 6 2

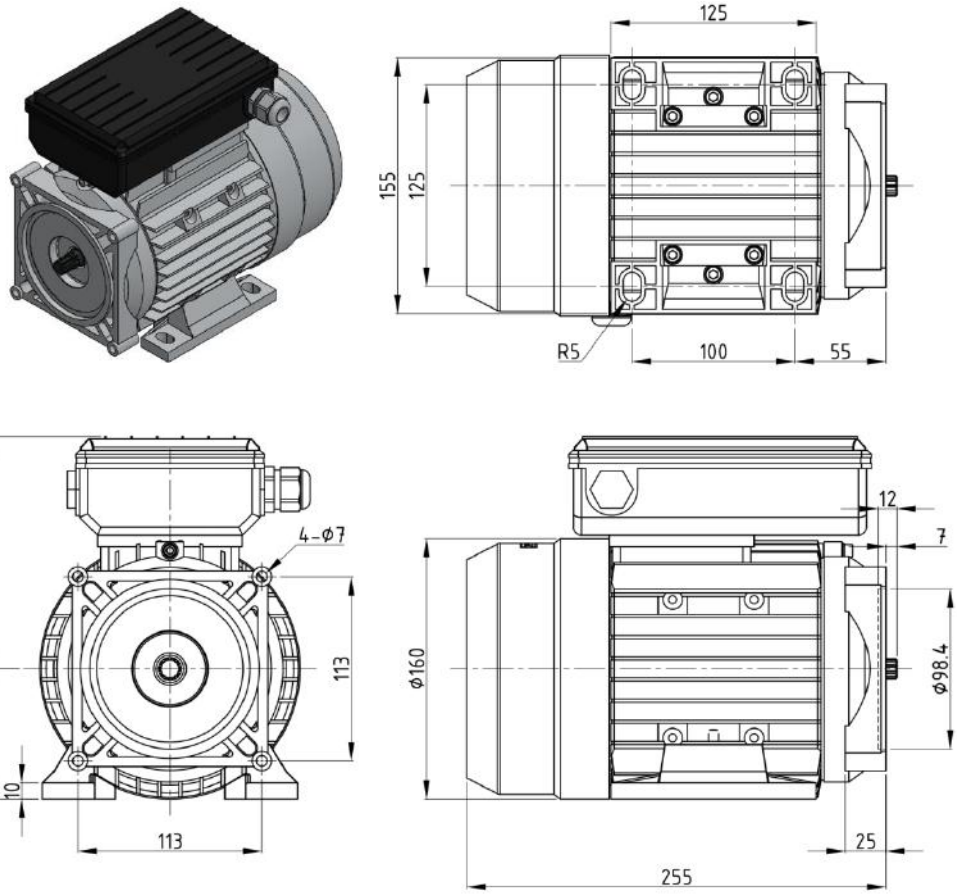
A | B | C | D | E | F

AC MOTOR

A	B	C	D	E	F
AC-Motor	Pole	Power (kW)	Phase	Frequency (Hz)	Duty Cycle
MAC407M62	4	0.75	1Φ	60	S2

Speed (rpm)	Voltage (V)	Insulation Class	Protection Grade	Rated Current (A)	Frame Size	Rotation
1720	220	F	IP 54	4.9	80	C.W. →

DIMENSION



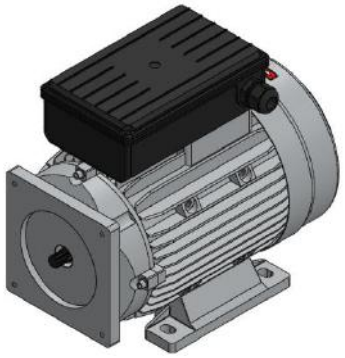
1	M	A	C	4	1	8	M	6	2
A			B	C		D	E	F

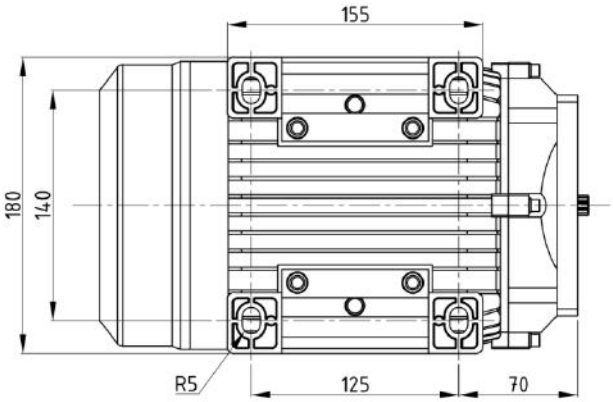
AC MOTOR

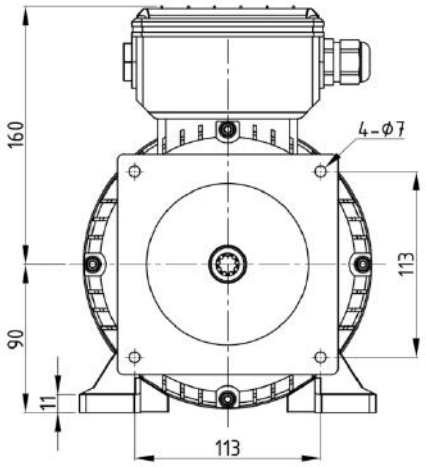
A	B	C	D	E	F
AC-Motor	Pole	Power (kW)	Phase	Frequency (Hz)	Duty Cycle
MAC418M62	4	1.8	1Φ	60	S2

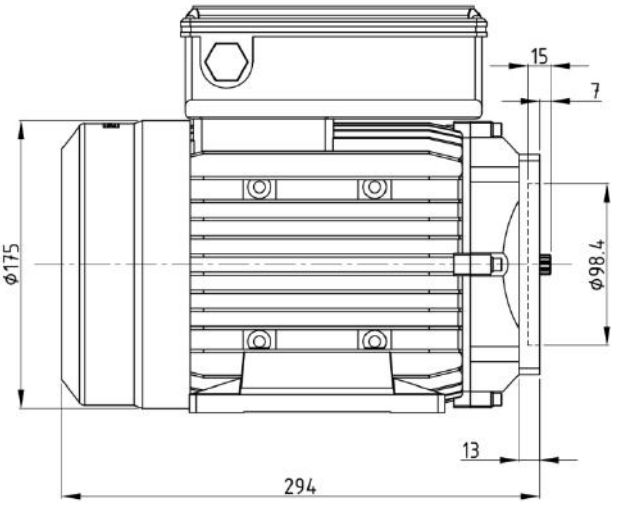
Speed (rpm)	Voltage (V)	Insulation Class	Protection Grade	Rated Current (A)	Frame Size	Rotation
1720	220	F	IP 54	9.8	90	C.W. →

DIMENSION









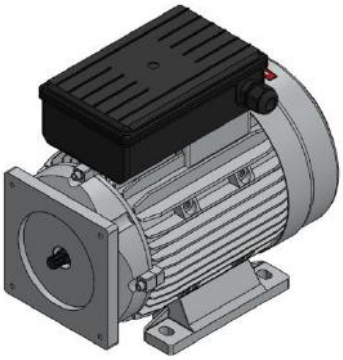
1 | M | A | C | 4 | 2 | 2 | M | 6 | 1 |
A | B | C | D | E | F

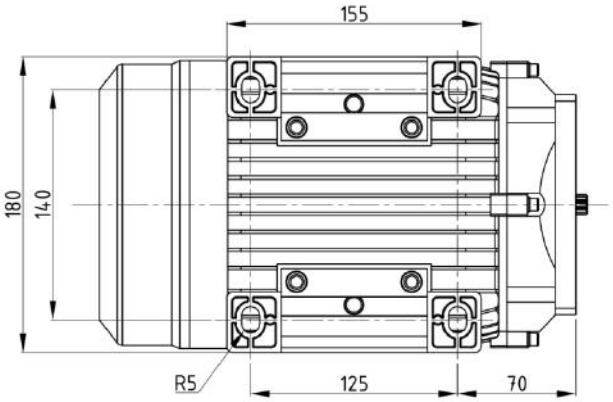
AC MOTOR

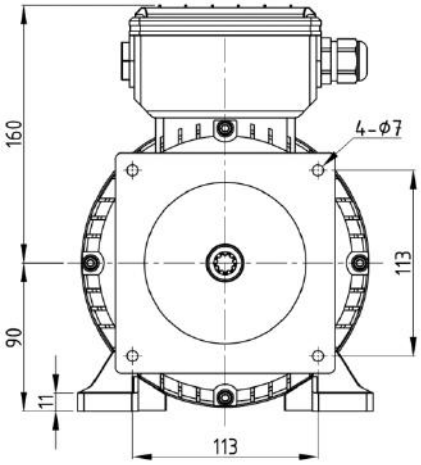
A	B	C	D	E	F
AC-Motor	Pole	Power (kW)	Phase	Frequency (Hz)	Duty Cycle
MAC422M61	4	2.2	1Φ	60	S1

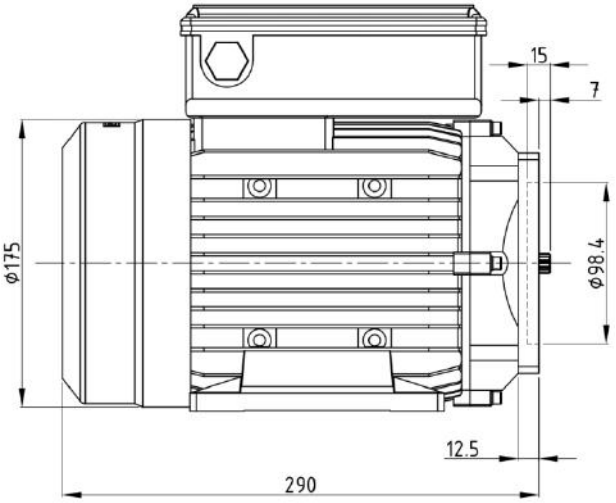
Speed (rpm)	Voltage (V)	Insulation Class	Protection Grade	Rated Current (A)	Frame Size	Rotation
1720	220	F	IP 54	12.8	90	C.W. →

DIMENSION

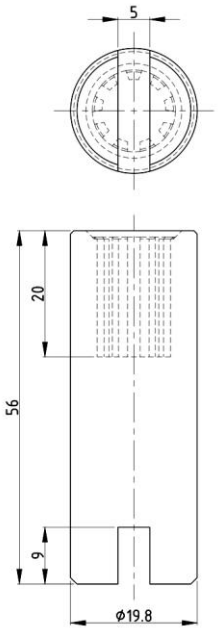
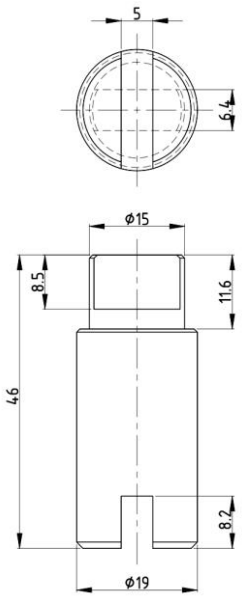
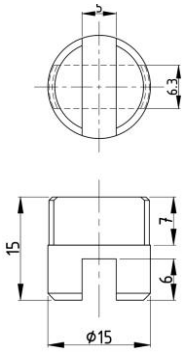
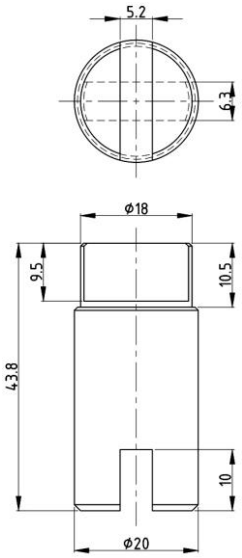


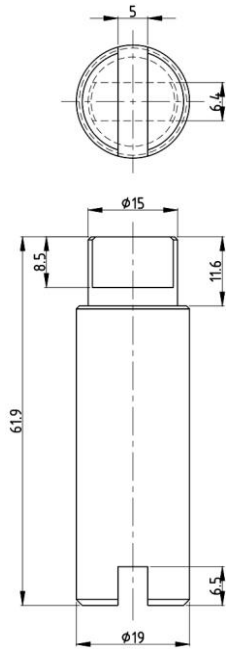
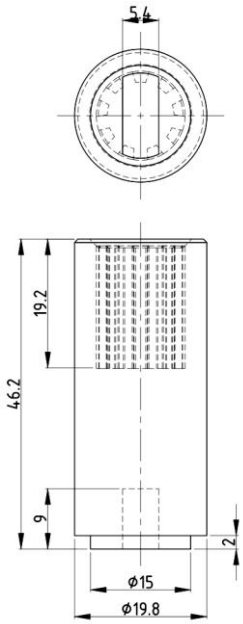
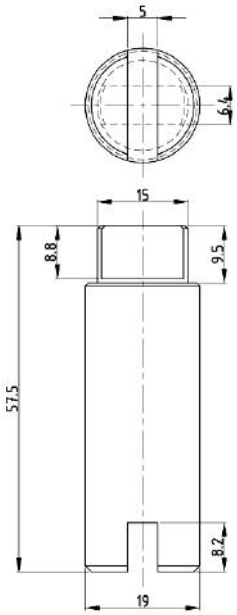
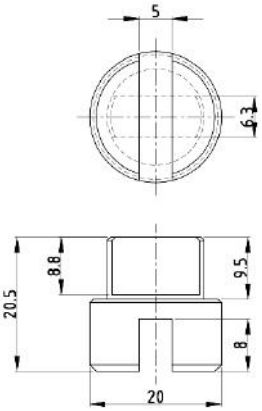




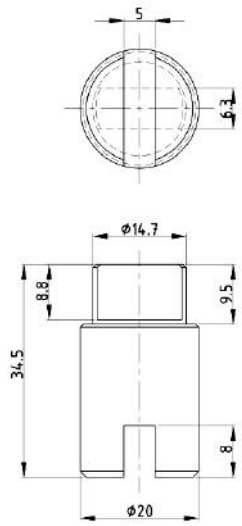
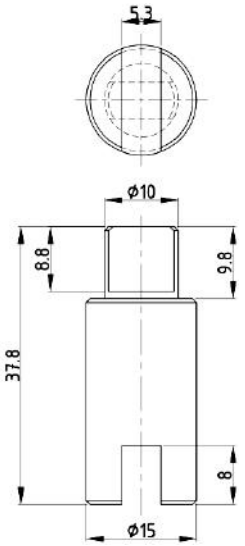


COUPLING

AC01	AC02	AC05	AC06
			
AC Motors DC Motors (MDC222) BC Center Block BE Gear Pump	DC Motors (MDCX12 ~ MDCX30) BC Center Block BE Gear Pump	DC Motors (MDCX08) SH Center Block BEP Gear Pump	AC Motors (B14 type) BC Center Block BE Gear Pump

AC08	AC09	AC10	AC11
			
DC Motors (MDCX12 ~ MDCX30) BC Center Block BEP Gear Pump	AC Motors FBRS01 Center Block - BE Gear Pump BC Center Block - BEP Gear Pump	DC Motors (D230 ~ L230) BC Center Block BE Gear Pump	PUMP & MOTOR UNIT

COUPLING

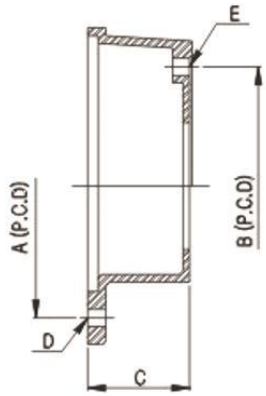
AC12	AC13
	
AC Motors (G56HC type) BC Center Block BE Gear Pump	AC Motors BC Center Block BEP Gear Pump

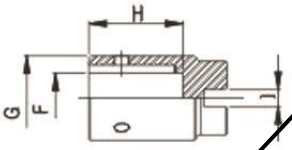
FLANGE & COUPLING KIT FOR STANDARD AC - MOTOR (B14 - TYPE) POWER UNIT

FLANGE CODE	COUPLING HOLDER CODE	COUPLING	FRAME	A	B	C	D	E	F	G	H	I	J
F080	AC080	AC06	80	100	90,4	40	ø6,5	6,5	19	32	36	6,4	53
F090	AC090		90	115		50	ø9		24	40	46		62,6
F112	AC112		112	130	120	67,2	ø8,5		28	44	48		66

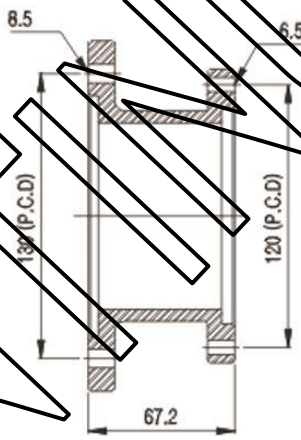
Note: For BE gear pump & BC Center Block.

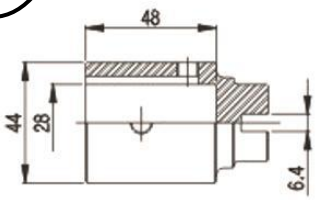
80 & 90 FRAME

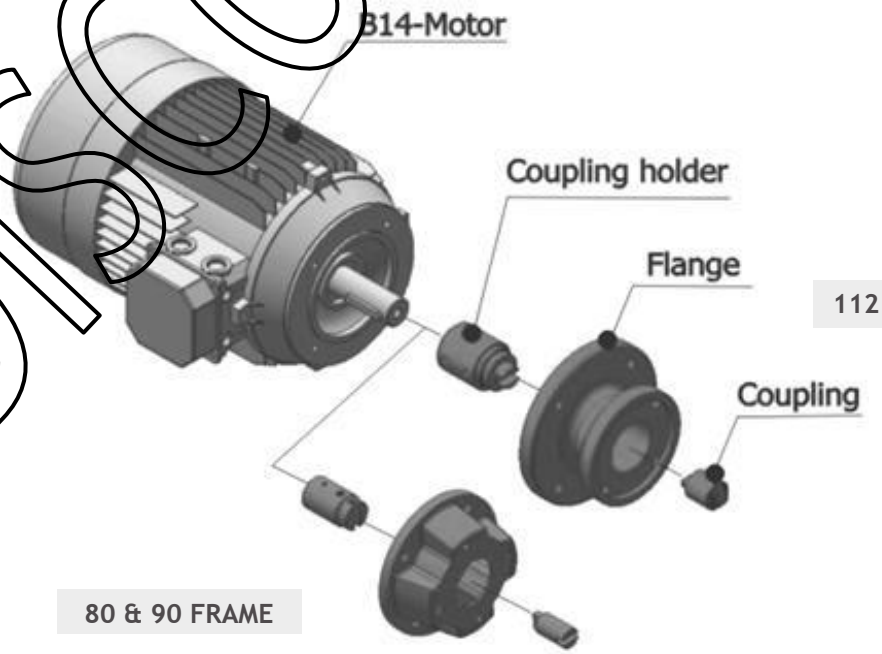




112 FRAME







DISCONTINUED

Note:

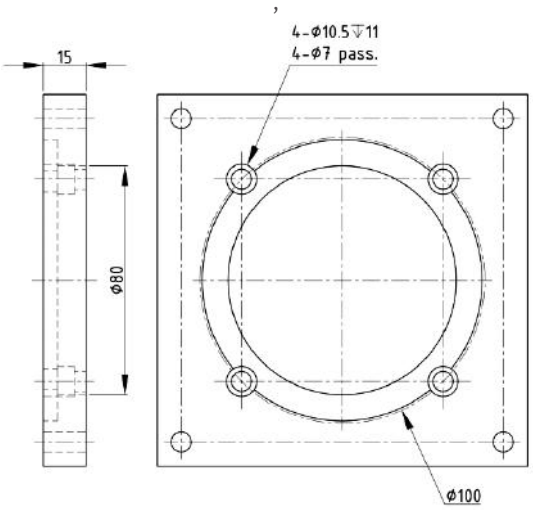
1. This flange and coupling can be assembled with B14 type motor and Dexco center block.
2. You can purchase B14 type Motor in your area.

FLANGE & COUPLING KIT FOR STANDARD AC - MOTOR (B14 - TYPE) POWER UNIT

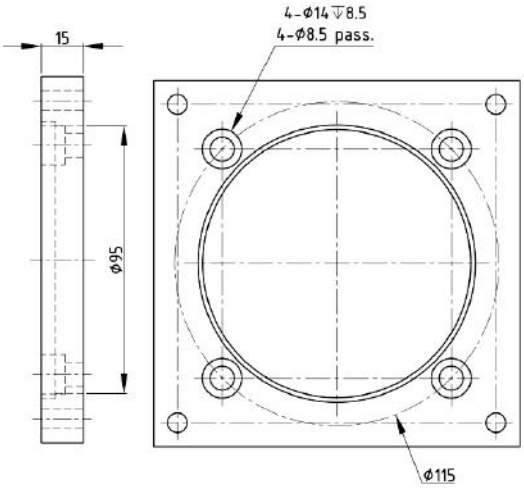
FLANGE CODE	COUPLING HOLDER CODE	FRAME
FL-DIN80	AC06	80
FL-DIN90	AC06	90

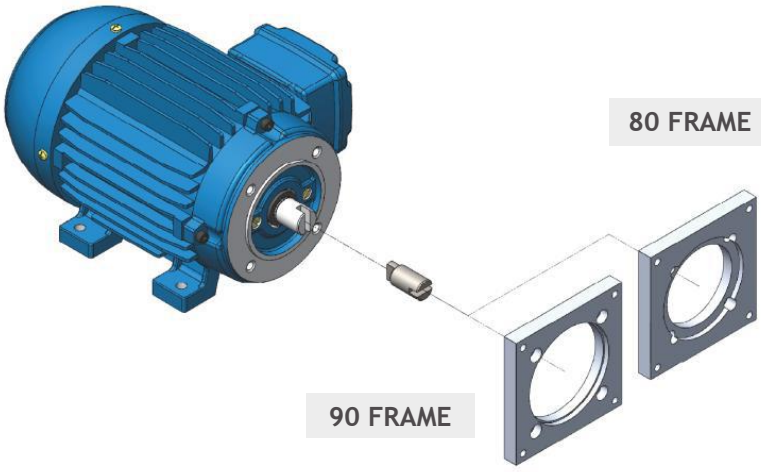
Note: For BE gear pump & BC Center Block.

80 FRAME



90 FRAME





Note:

1. This flange and coupling can be assembled with B14 type motor and Dexco center block.
2. You can purchase B14 type Motor in your area.

2 | B | C | 0 | 5 | 0 | 8 | 0
A | B | C

CENTER BLOCK - BC0

A - CENTER BLOCK

BC

B - CENTER BLOCK DIAGRAM

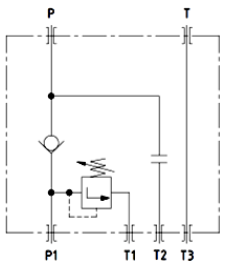
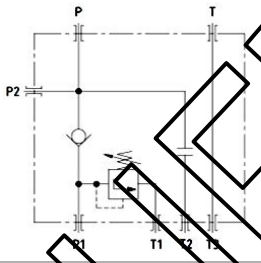
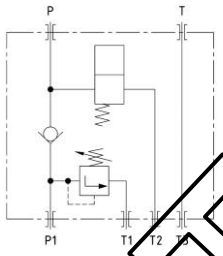
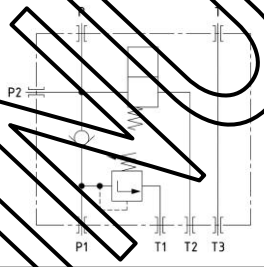
CODE	01	02
DIAGRAM		
CODE	03	04
DIAGRAM		
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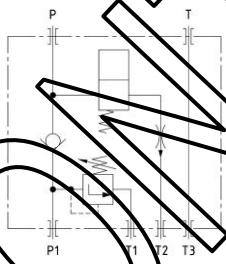
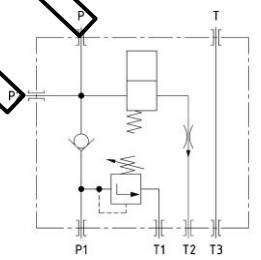
DIAGRAM		
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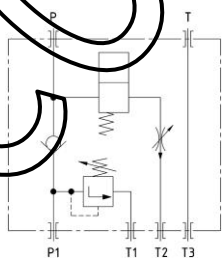
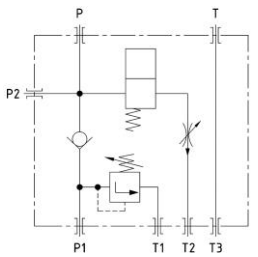
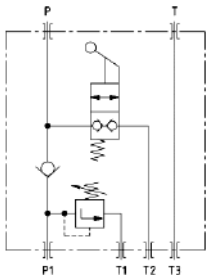
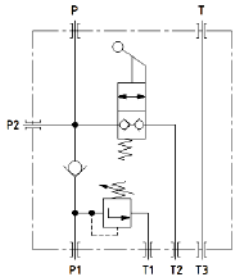
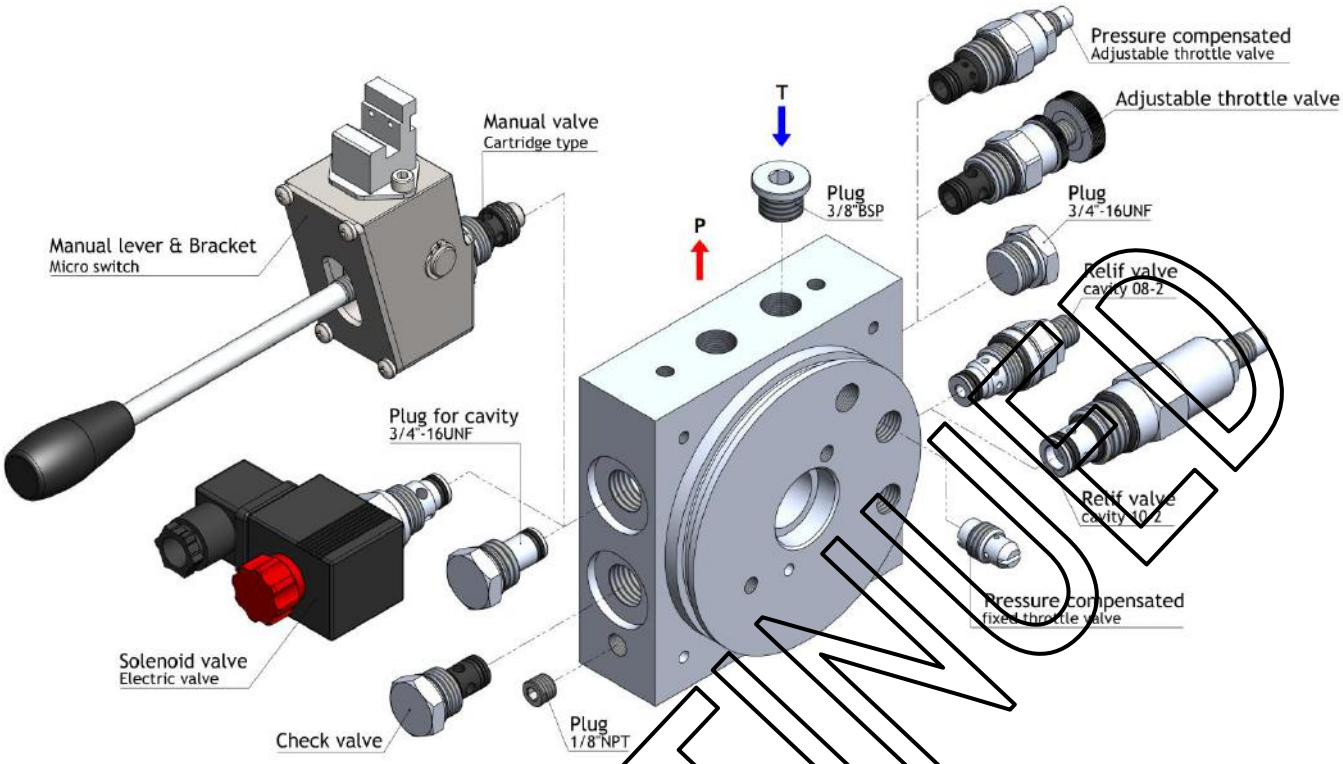
DIAGRAM		
CODE	09	00
DIAGRAM		

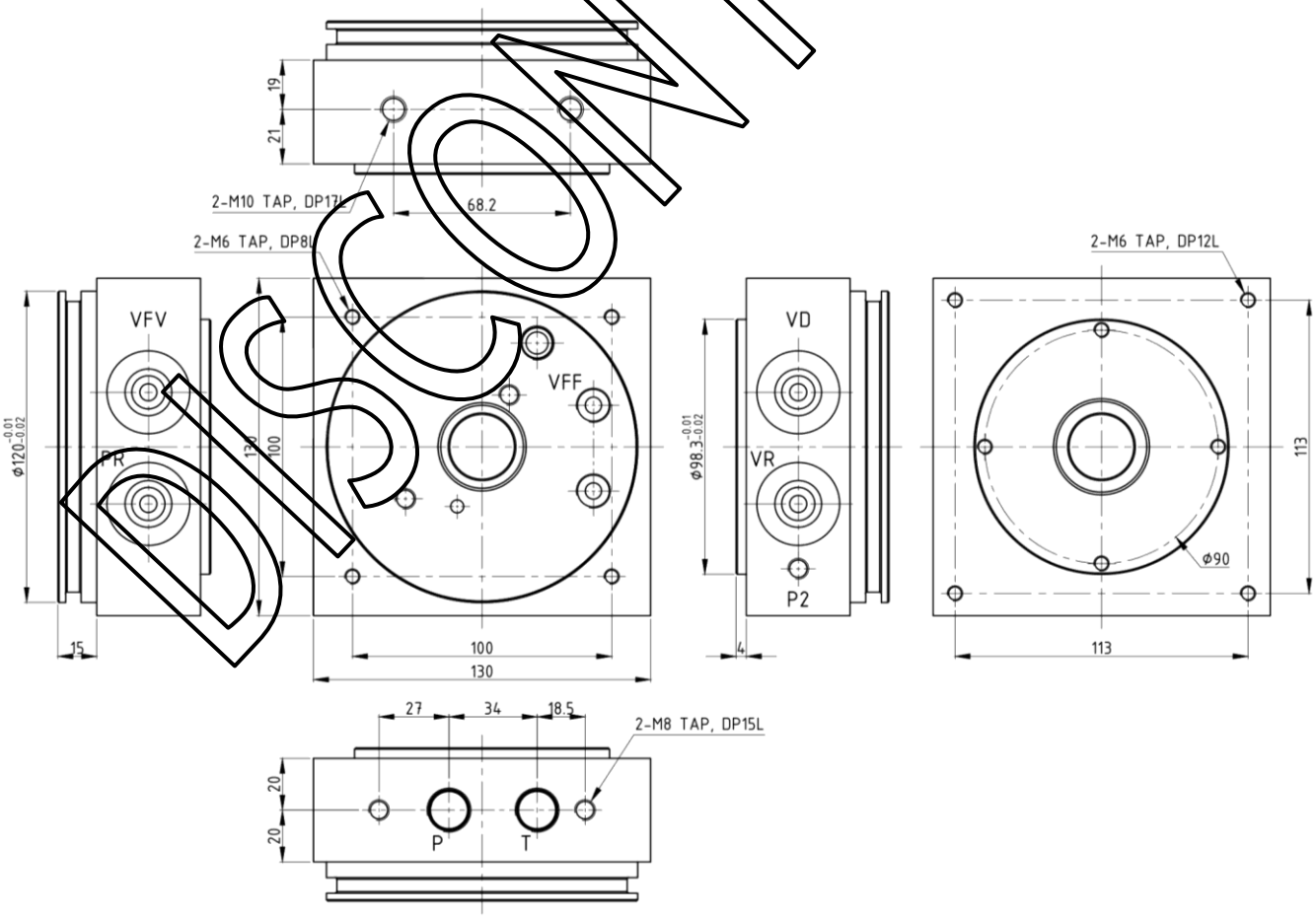
DISCONTINUED

C	CODE	Specification - cavity relief valve	
		Cavity	Thread
	080	08-2	3/4"-16UNF
	100	10-2	7/8"-14UNF

BC0 SERIES BUILT-IN VALVE



DIMENSION



DISCONTINUED

CENTER BLOCK SPECIFICATION - BC0

DESCRIPTION

Made of aluminum material

Solenoid valve:
normally closed, normally open, double lock selection.

Pressure adjustable relief valve

Applicable pump displacement:
0.2 cc/rev ~ 9.8 cc/rev

O'ring: 2-346

MAIN SPECIFICATION

VR: Check valve: 3/4"-16UNF (08-2 cavity)
PR: Relief valve: 3/4"-16UNF (08-2 cavity) for pump 0.2 ~ 5.8 cc/rev or 7/8"-14UNF (10-2 cavity) for pump 7.0 cc/rev ~ 9.8 cc/rev
VD (a): Solenoid valve: 3/4"-16UNF (08-2 cavity)
VFF: Orifice: 9/16"-18UNF
VFV: GA / NV08: 3/4"-16UNF (08-2 cavity)
VD (b): Lever valve: 3/4"-16UNF (08-2 cavity)

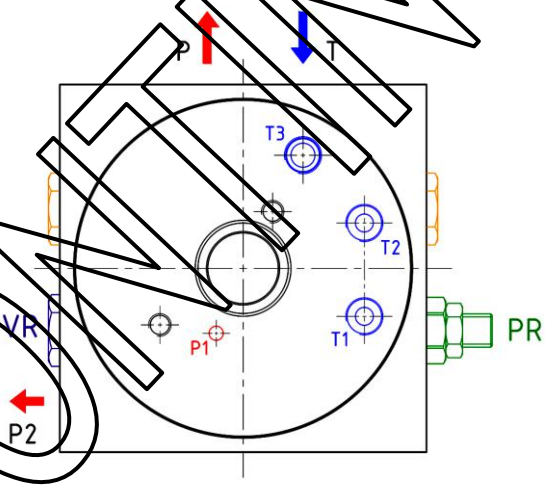
P: Primary word port: 3/8"BSP
P2: Secondary word port: 1/8"NPT
T: Return port: 3/8"BSP
T1 and T3: Return ports: 1/4"BSP
T2: Return port: 9/16"-18UNF

DISCONTINUED

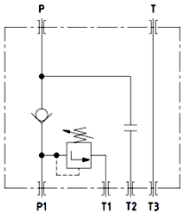
BC01 & BC02

BC01

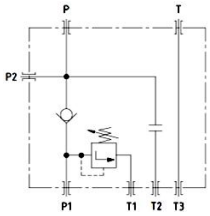
BC02



BC01

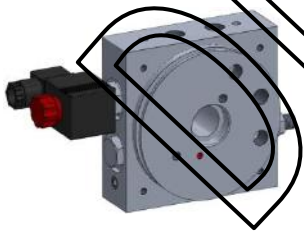


BC02

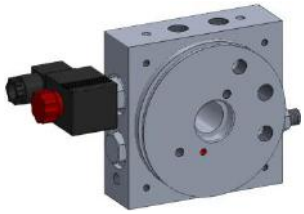


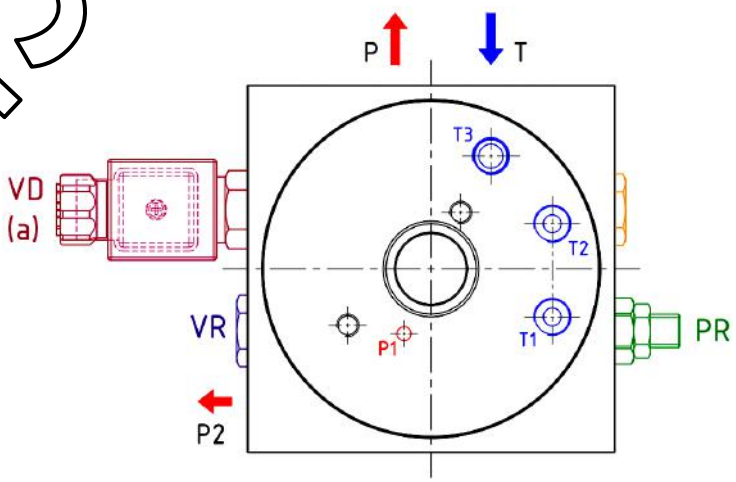
BC03 & BC04

BC03



BC04





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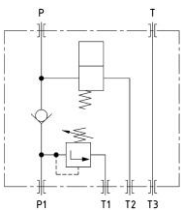
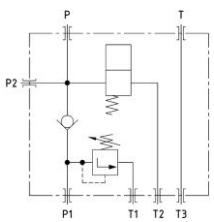
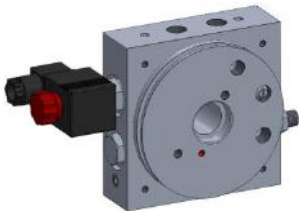


BC04



BC05 & BC06

BC05



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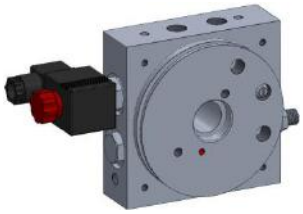

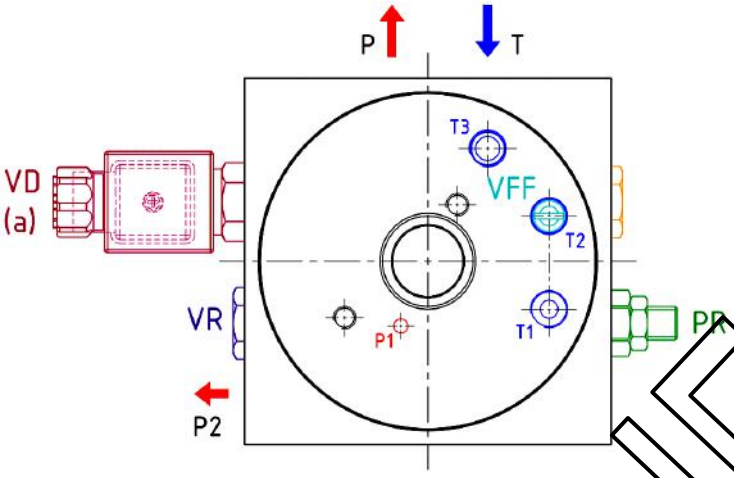

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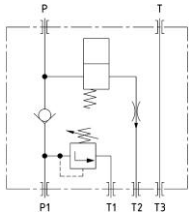

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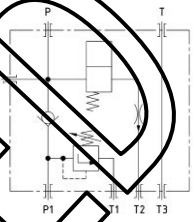
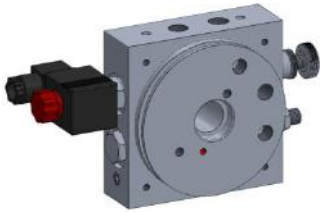
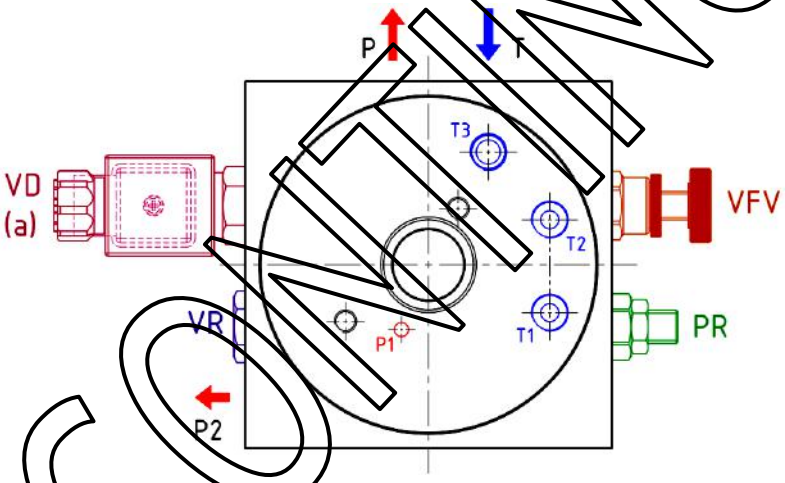


BC07 & BC08

BC07



BC08



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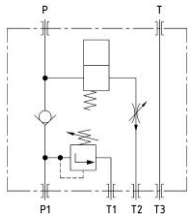
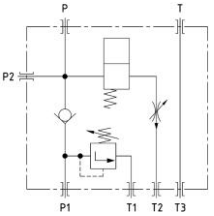
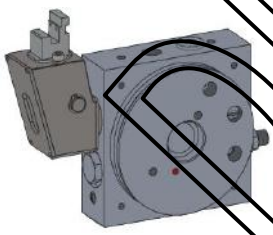


BC08

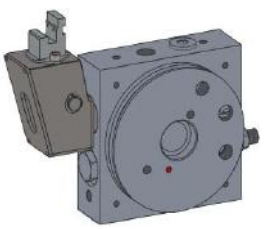


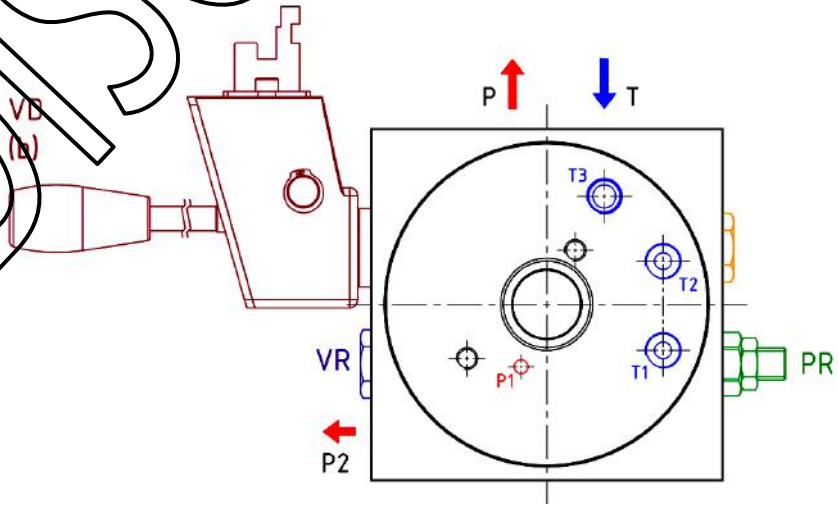
BC09 & BC00

BC09

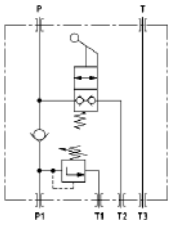


BC00

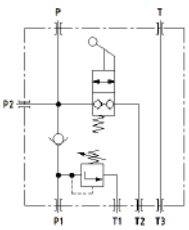




BC09



BC00



DISCONTINUED

2 | B | C | 1 | 5 | | — CENTER BLOCK - BC1

A | | B | | C

A - CENTER BLOCK

BC

B - CENTER BLOCK DIAGRAM

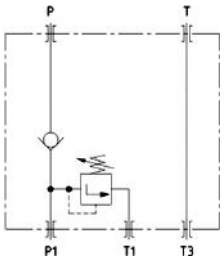
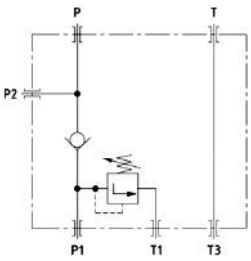
CODE	11	12
DIAGRAM		
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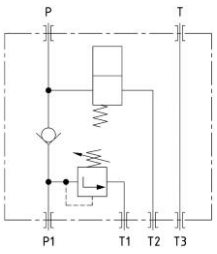
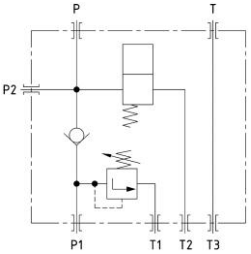
DIAGRAM		
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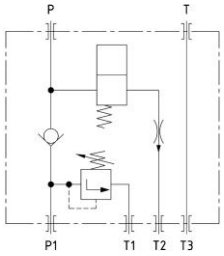
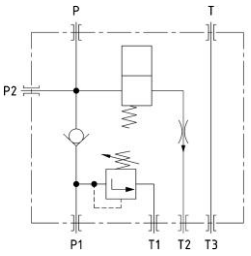
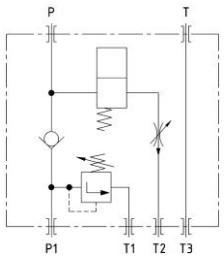
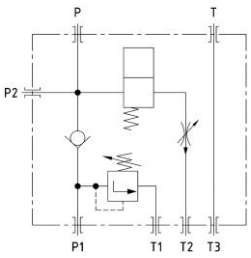
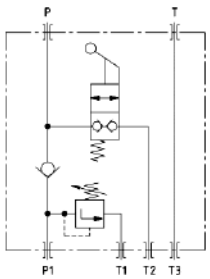
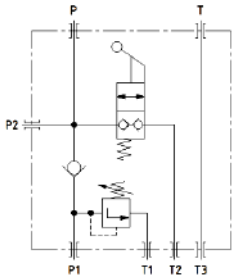
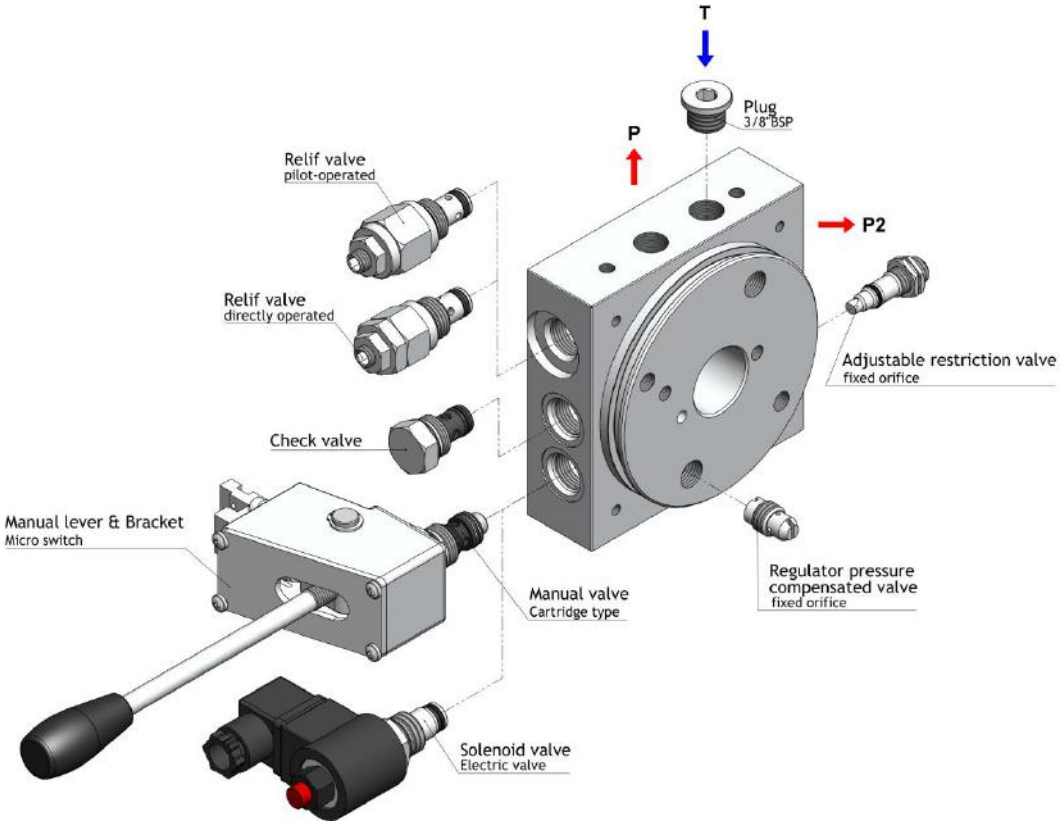
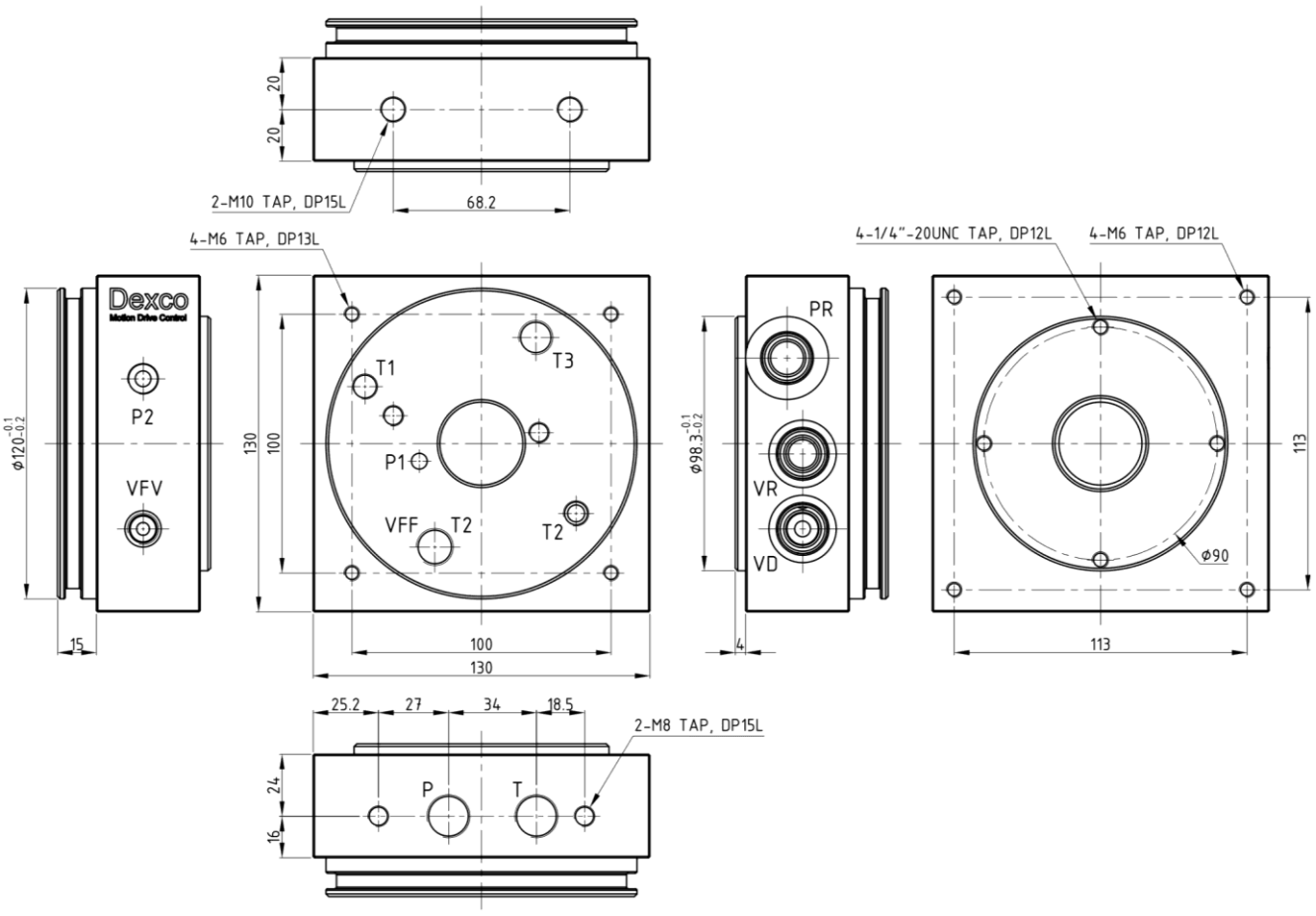
DIAGRAM		
CODE	17	18
DIAGRAM		
CODE	19	10
DIAGRAM		

C	CODE	Specification -relief valve
	R	RVPS08
	Omit	RV08

BC1 SERIES BUILT-IN VALVE



DIMENSION



CENTER BLOCK SPECIFICATION - BC1

DESCRIPTION

Made of aluminum material

Solenoid valve:
normally closed, normally open, double lock selection.

Pressure adjustable relief valve

Applicable pump displacement:
0.2 cc/rev ~ 9.8 cc/rev

O'ring: 2-348

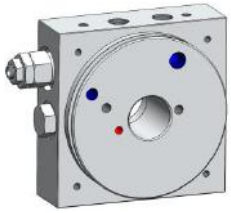
MAIN SPECIFICATION

PR: Relief valve: 3/4"-16UNF (08-2 cavity)
VD (a): Solenoid valve: 3/4"-16UNF (08-2 cavity)
VD (b): Lever valve: 3/4"-16UNF (08-2 cavity)
VFF: 9/16"-18UNF
VFV: M12x1 (FCV-02 cavity)
VR: Check valve: 3/4"-16UNF (08-2 cavity)

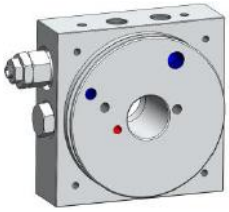
P: Primary word port: G3/8"
P2: Secondary word port: 1/4"NPT
T: Return port: G3/8"
T1: Return port: G1/8"
T2: Return port: G1/8" or 9/16"-18UNF (VFF)
T3: Return port: G1/4"

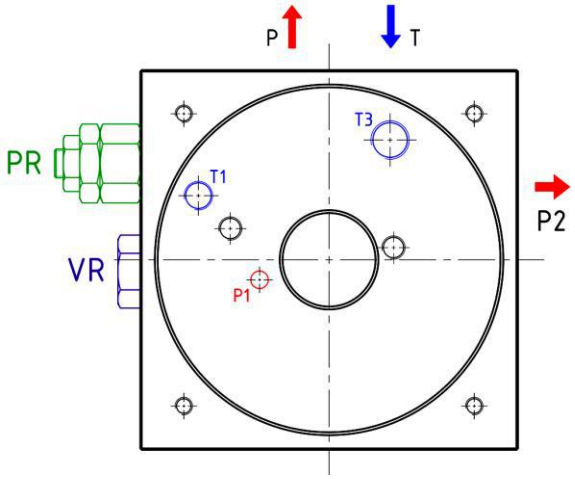
BC11 & BC12

BC11



BC12





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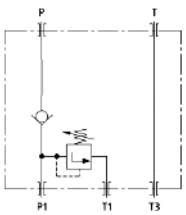
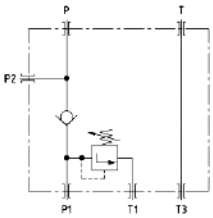
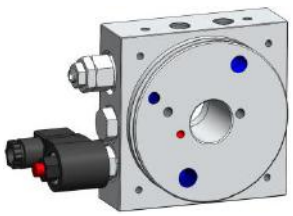


BC12

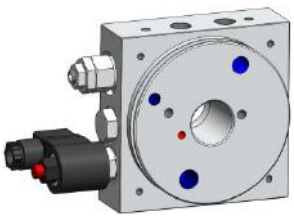


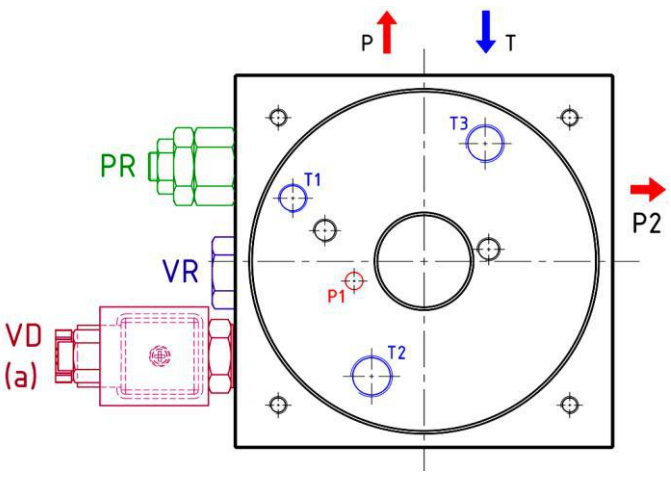
BC13 & BC14

BC13



BC14





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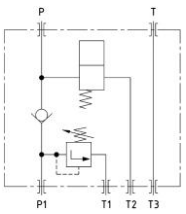

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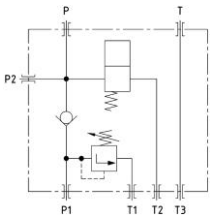
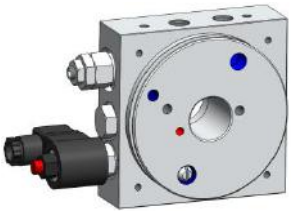


BC15 & BC16

BC15



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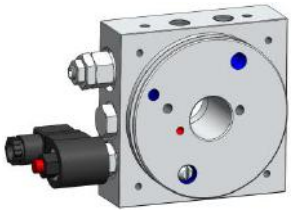
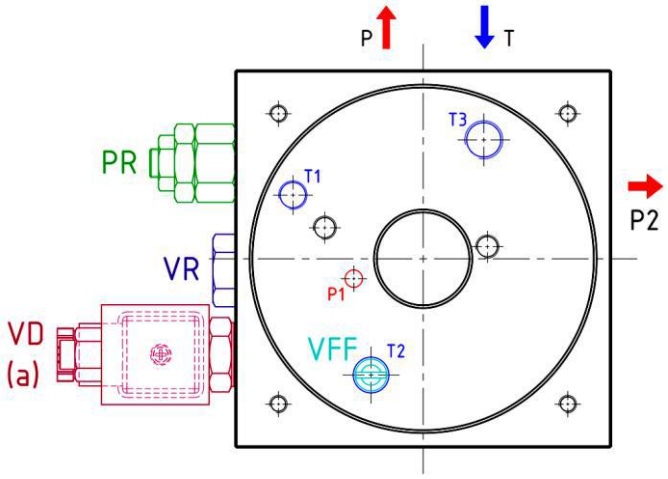
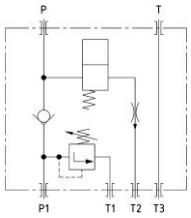




BC15



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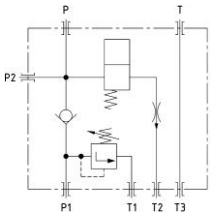
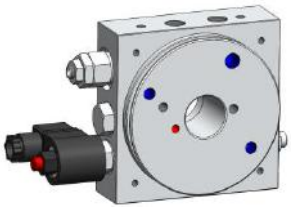


BC17 & BC18

BC17



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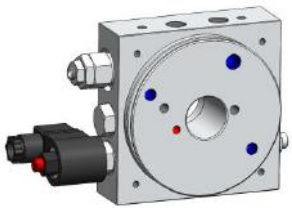

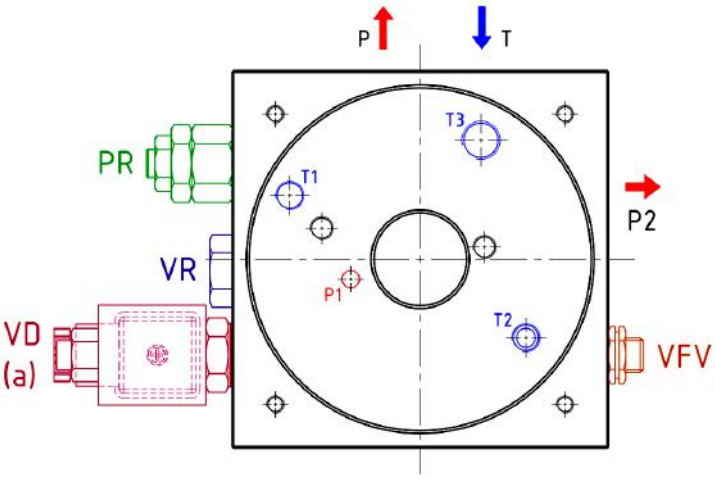

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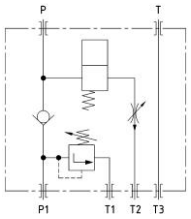

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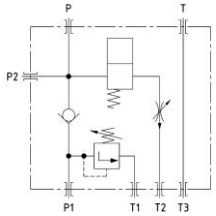
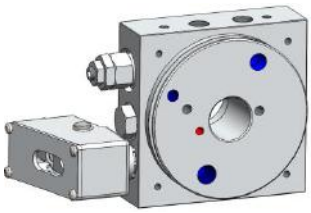


BC19 & BC10

BC19



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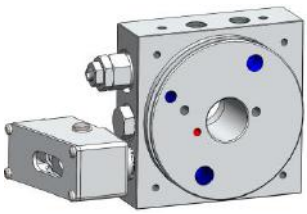

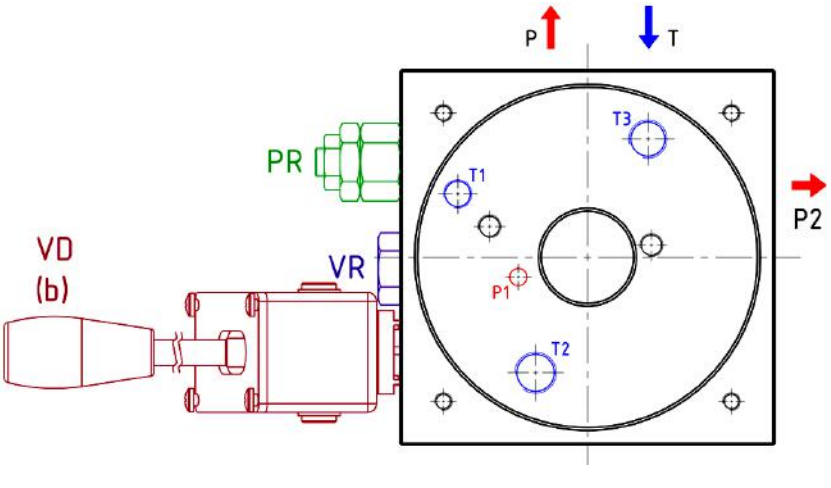

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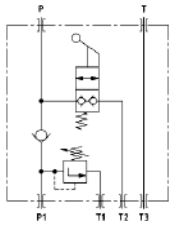

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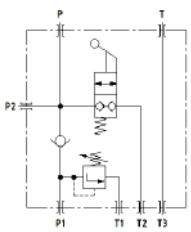


3 | B | E | 2 | 1
A | B

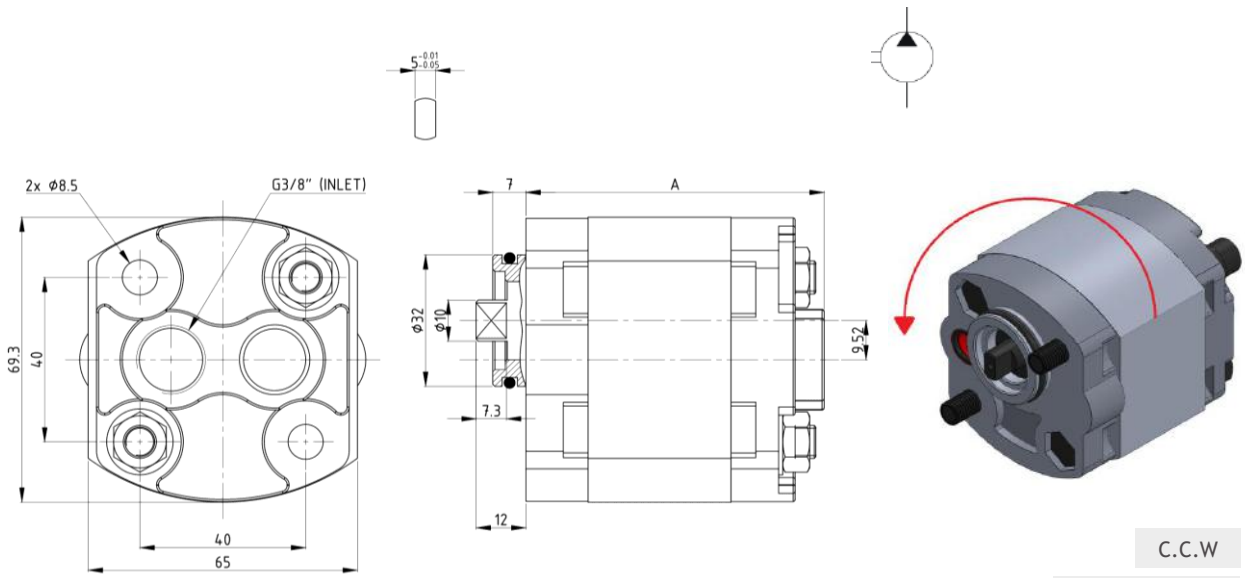
GEAR PUMP

A - GEAR PUMP

BE

Code	B - Displacement (cc/rev)	Max Pressure (Bar)			Speed (rpm)		A (mm)	Relief valve
		P1	P2	P3	Max	Min		
BE11	1.1	230	250	270	6000	1000	75.0	RV08
BE16	1.6						77.0	
BE21	2.1						79.5	
BE27	2.7					800	80.0	
BE32	3.2	210	230	250	5000		82.0	
BE37	3.7				4500		84.0	
BE42	4.2				4000		86.0	
BE48	4.8	190	210	230	3500	600	88.0	
BE58	5.8				3000		89.0	
BE70	7.0	180	180	200	2500		96.0	RVPS08
BE80	8.0				2100		100.0	
BE98	9.8	100	120	140	1800		117.0	

DIMENSION



C.C.W

1x O-ring 2-121

1x O'ring 2-012

3 | B | E | P | 0 | 8 | X | X
A | B | C

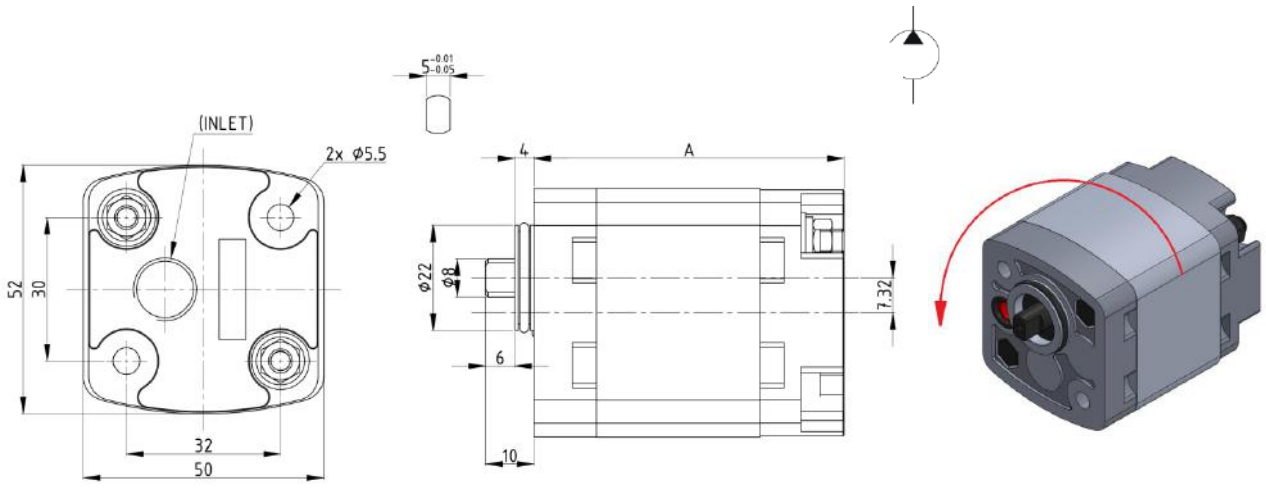
GEAR PUMP

A - GEAR PUMP

BEP

Code	B - Displacement (cc/rev)	Pressure (MPa)		Speed (rpm)		INLET	A (mm)	Relief valve
		Rated	Max	Rated	Max			
BEP02	0.2	16	20	1000	7000	G3/8”	61.5	RV08
BEP03	0.3						62.0	
BEP05	0.5						63.0	
BEP08	0.8						65.5	
BEP10	1.0			850	6000		66.5	

DIMENSION



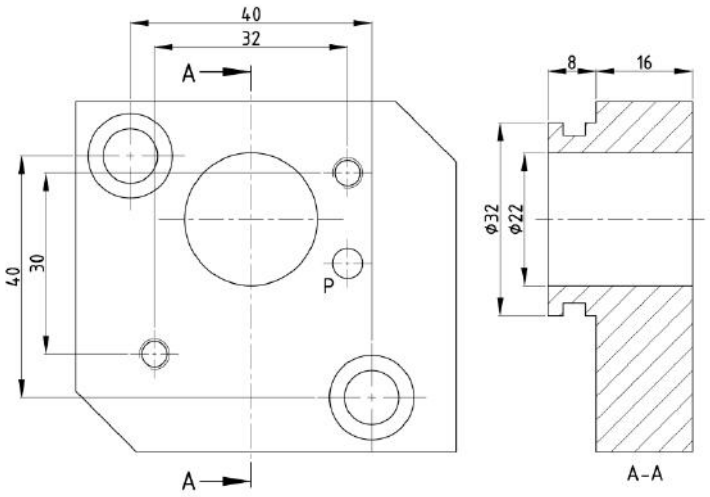
C.C.W

3	X	X	X	X	X	P	A
	A			B		C	

ADAPTOR PLATE FOR PUMP BEP ON CENTER BLOCK BC

C	CODE	PA
	TYPE	Adaptor plate for pump BEP on BC Center Block

MODEL	007010-UD-10



For assemble BC Center Block with AC Motors, is requested the coupling 006988-UD-01 + AC09 with screws 2x M8 x 20mm.

For assemble BC Center Block with DC Motors, is requested the coupling model AC08, with screws 2x M8 x 20mm.

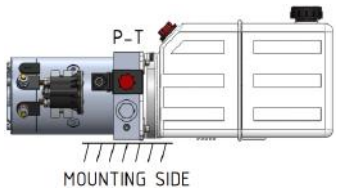
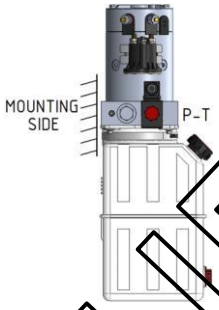
1x O'ring 2-121

1x O'ring 2-012

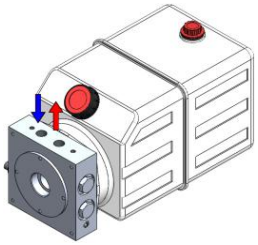
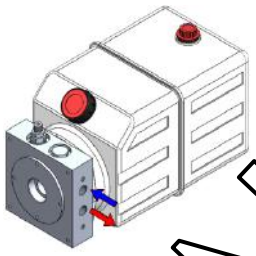
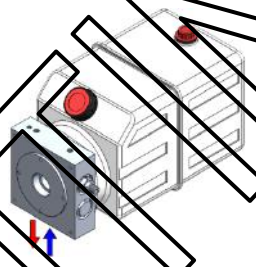
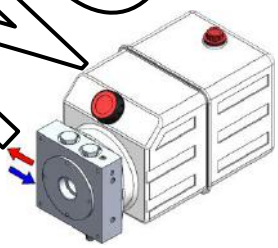
4	H	P	C	X
	A	B	C	D

MOUNTING - CENTER BLOCK BC0

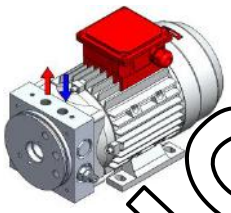
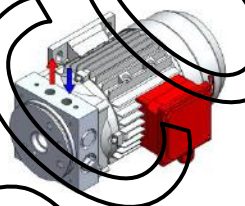
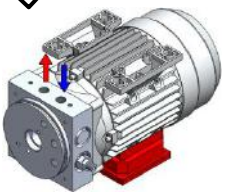
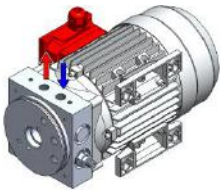
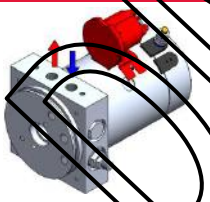
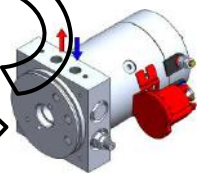
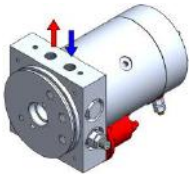
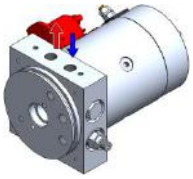
A - MOUNTING POSITION

H	V
Horizontal type	Vertical type
	

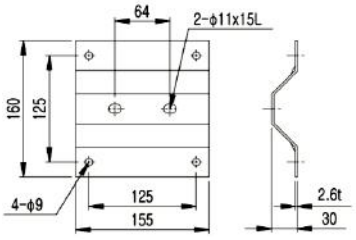
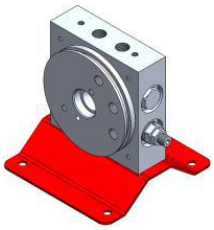
B - AIR BREATHER POSITION

P	C	M	F	S
P-T port	Relief valve	Base mounting bracket	Check valve	Special
				Special Mounting

C - TERMINAL BOX (AC) OR START RELAY (DC) POSITION

P	C	M	F	S
P-T port	Relief valve	Base mounting bracket	Check valve	Special
				Special mounting
				

D - MOUNTING BRACKET

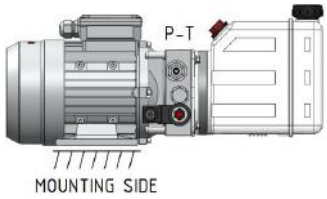
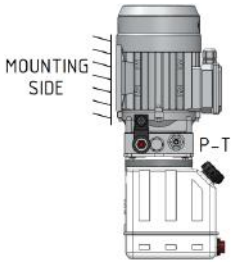
B	X
	
	Without mounting bracket

DISCONTINUED

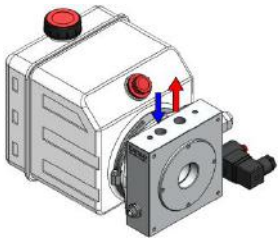
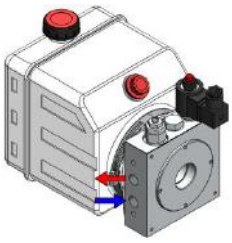
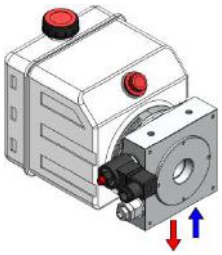
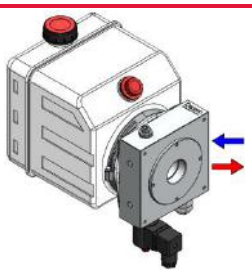
4 | H | P | C | X
A | B | C | D

MOUNTING - CENTER BLOCK BC1

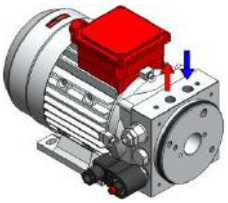
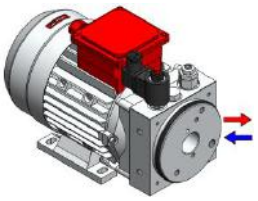
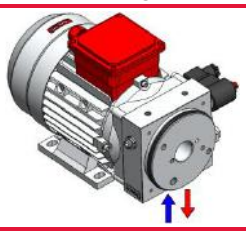
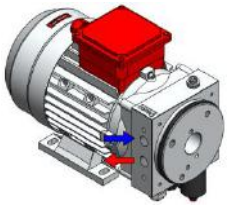
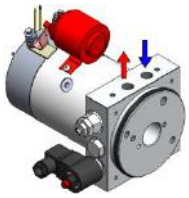
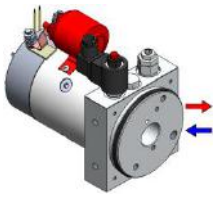
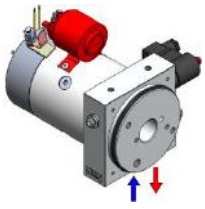
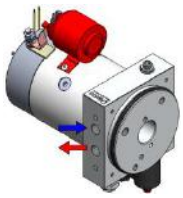
A - MOUNTING POSITION

H	V
Horizontal type	Vertical type
	

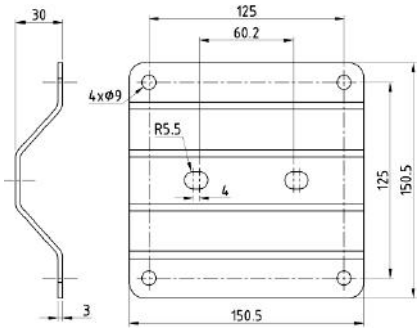
B - AIR BREATHER POSITION

P	C	M	F
P-T port	Relief valve	Base mounting bracket	Flank mounting
			

C - TERMINAL BOX (AC) OR START RELAY (DC) POSITION

P	C	M	F
P-T port	Relief valve	Base mounting bracket	Flank mounting
			
			

D - MOUNTING BRACKET

B	X
	Without mounting bracket

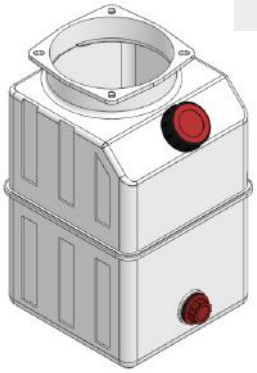
5	T	P	0	5
	A		B	

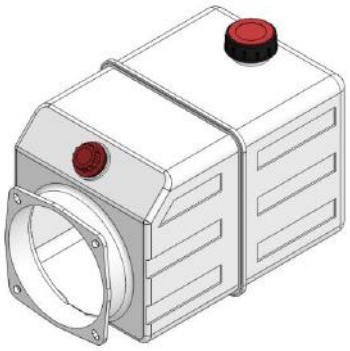
PLASTIC OIL TANK - SQUARE TYPE

A	CODE	TP
	TYPE	Plastic oil tank & Square type
B	CAPACITY (ℓ)	

Code	B - Capacity (ℓ)	Length (L) (mm)	Weight (Kg)
TP04	04	200	0.46
TP05	05	290	0.60
TP06	06	330	0.67
TP08	08	435	0.85
TP10	10	525	1.00
TP12	12	545	1.03
TP14	14	590	1.11
TP16	16	695	1.28

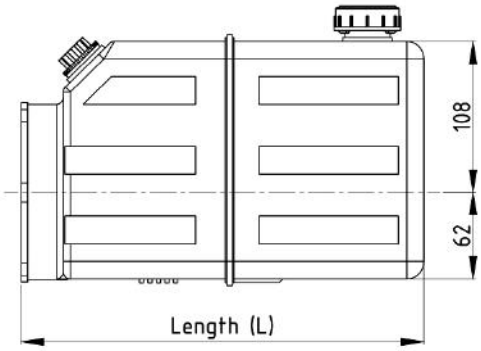
V = Vertical mounting

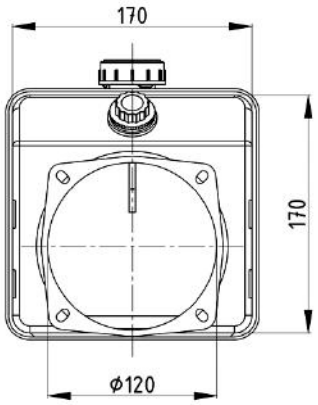




H = Horizontal mounting

Mounting with:
1x FBE34V
1x TP34V
1x ABC120
4x PA7010UD





AIR BREATHER
Plastic oil tank

G3/4"

FBE34V

DRAIN
Plastic oil tank

G3/4"

TP34V

5 | T | A | 2 | 5
A | B

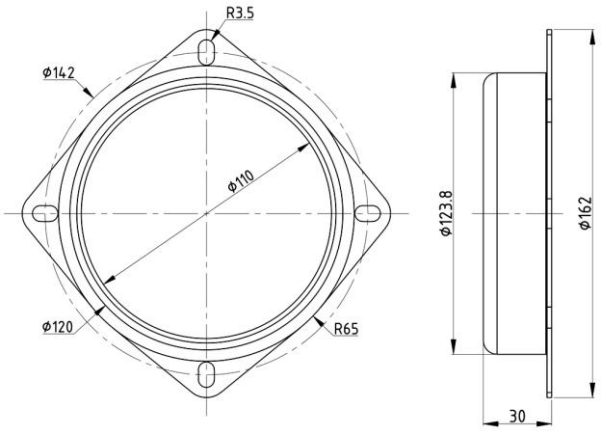
STEEL OIL TANK - SQUARE TYPE

A	CODE	TA
	TYPE	Steel oil tank & Square type

B	CAPACITY (ℓ)

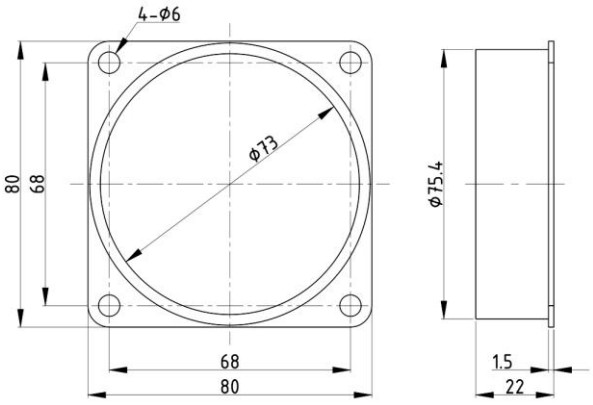
STEEL OIL TANK - NECK120

Code	Diameter
NECK120	Ø120mm

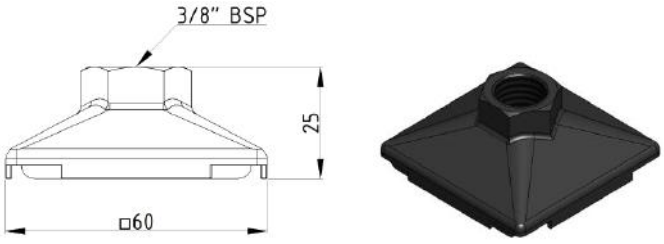


STEEL OIL TANK - NECK73

Code	Diameter
NECK73	Ø73mm



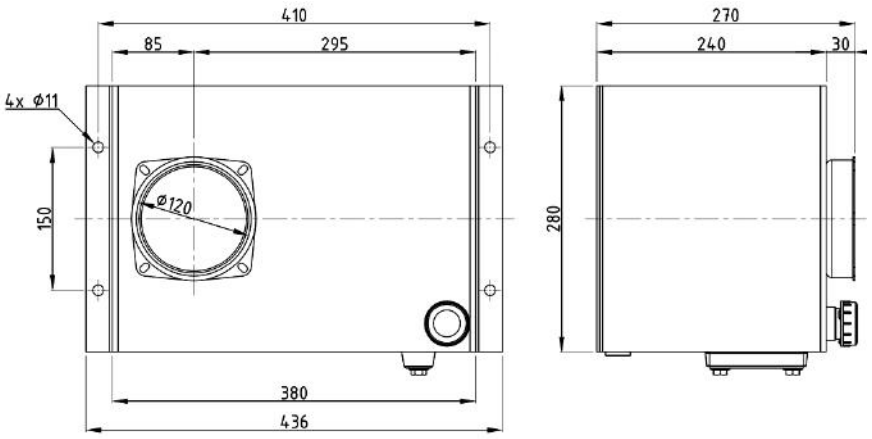
SUCTION FILTER



FS60-100m

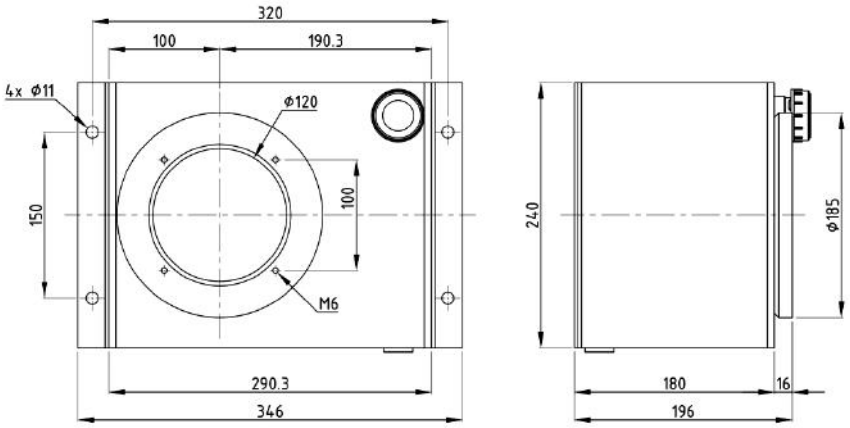
STEEL OIL TANK - SQUARE TYPE - TA25HCP

Code	Capacity (ℓ)	Oil gauge
TA25HCP	25	VN-76T



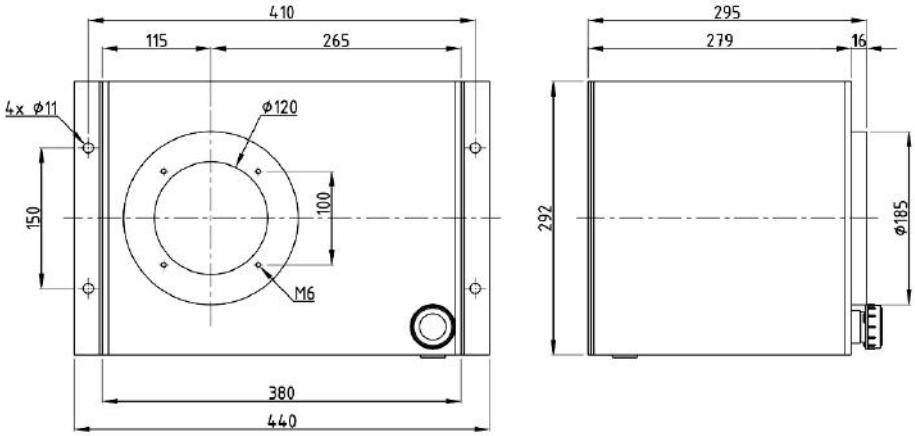
STEEL OIL TANK - SQUARE TYPE - TA12CNV

Code	Capacity (ℓ)
TA12CNV	12



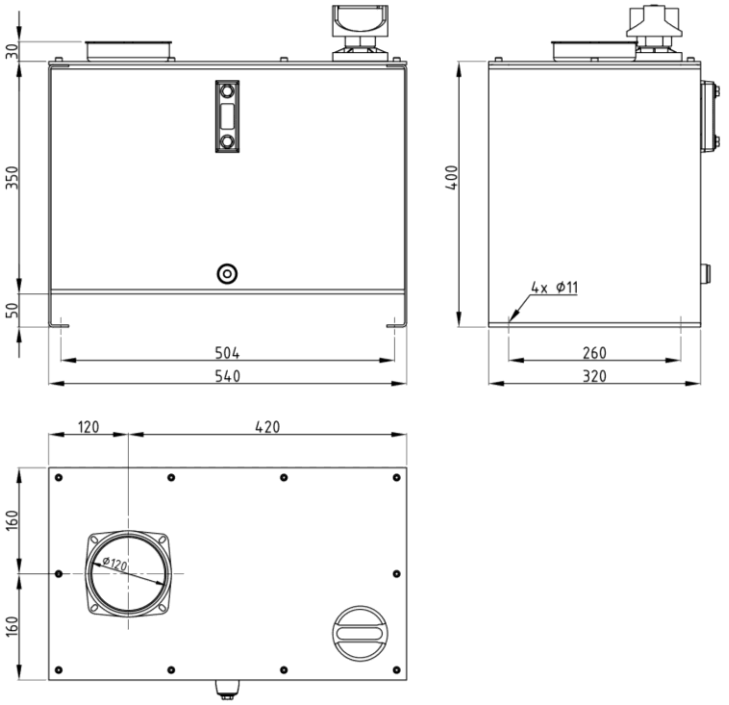
STEEL OIL TANK - SQUARE TYPE - TA30CNV

Code	Capacity (ℓ)
TA30CNV	30



STEEL OIL TANK - SQUARE TYPE - TA50HCP

Code	Capacity (ℓ)	Oil gauge
TA50HCP	50	VN-76T



AIR BREATHER
Steel oil tank
TA25HCP - TA12CNV - TA30CNV

G3/4"

FBE34V

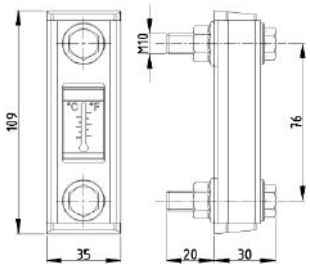
AIR BREATHER
Steel oil tank
TA50HCP

FA-F71-EP-N-HCP

DRAIN
Steel oil tank
square type

PLUG G1/2"

OIL GAUGE
Steel oil tank
TA50HCP



VN-76-T

5	T	R	1	2
	A		B	

STEEL OIL TANK - ROUND TYPE

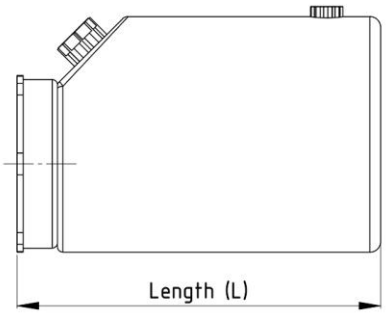
A	CODE	TR
	TYPE	Steel oil tank & Round type

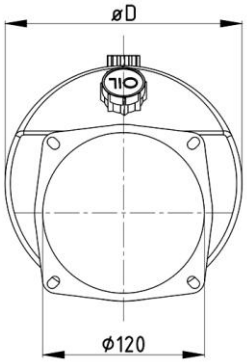
B	CAPACITY (ℓ)

Code	B Capacity (ℓ)	Length (L) (mm)	øD (mm)	Air Breather Vertical mounting	Air Breather Horizontal mounting
TR015	1.5	160	ø148	FBE38V	FBE38V
TR017	1.7	200			
TR025	2.5	240			
TR035	3.5	290			
TR04	4	220	ø176	FBE12V	
TR05	5	265			
TR08	8	365			
TR10	10	440			
TR12	12	540			
TR14	14	580			

Vertical mounting

Horizontal mounting





AIR BREATHER

G1/2"

FBE12V

AIR BREATHER

G3/8"

FBE38V

Drain vertical mounting: plug M12.

Drain horizontal mounting: plug G3/8".

6	S	C	4	8	H	D	N			T	I	A
	A	B	C	D	E	F		G		MAKER		

SOLENOID VALVE

A	CODE	S			MHDX8		
	TYPE	Solenoid valve			Manual handle double lock 08-2 cavity		

B	CODE	C	O	D
	DIAGRAM	Normally closed type	Normally open type	Double locking type

C	CODE	1	2	3	4	5	6
	VOLTAGE	DC 12V	DC 24V	AC 110V	AC 220V	AC 110V RAC	AC 220V RAC

D	CODE	Specification		
		Cavity	Thread	Diameter
	8	08-2	UNF 3/4"	Ø12.7

E	CODE	H	
	TYPE	Manual override option	Omit when not necessary

F	CODE	DN	
	TYPE	DIN Connector	

G	CODE		ED
	TYPE	Omit when not necessary	100% ED

Note:

Use RAC coil for double locking valve for normally open valves for AC electric power source

SOLENOID VALVE SPECIFICATION

MODEL: SOX8-HWY (NORMALLY OPEN)

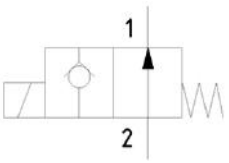
Description of the process:

When energized, the valve acts as a check valve, allowing from ① to ②, while blocking flow from ② to ①. When de-energized, allowing flow from ② to ①, while ① to ② is severely restricted.

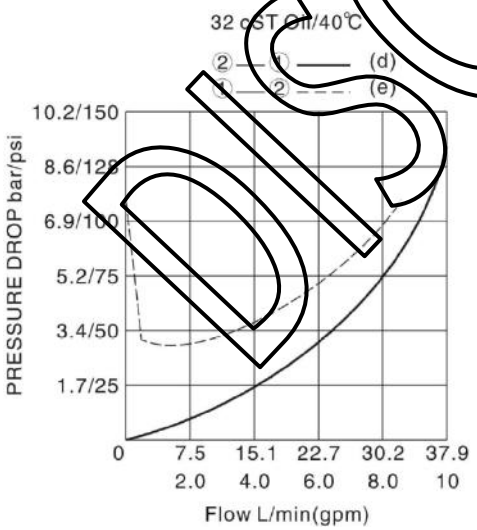
Specification:

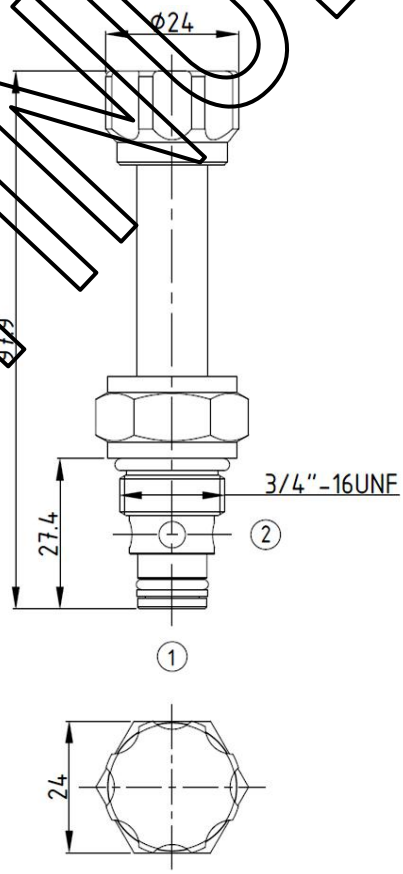
Max. working pressure	250bar
Flow max.	See performance
Internal leakage	0.3ml/min at 210bar 5drops/min
Operating volt	12VDC, 24VDC, 110VAC, 220VAC
Min. voltage requires	85% of nominal voltage
Filtration of oil	20μm or better
Type of standard cavity	08-2
Temperature	-30~+100°C standard buna seals

Symbol:



Performance:





DISCONTINUED

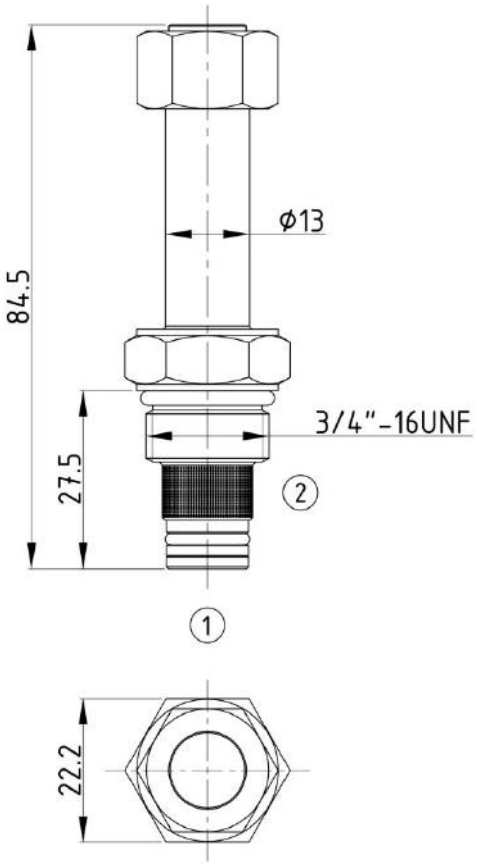
MODEL: SOX8-TIA (NORMALLY OPEN)

Description of the process:

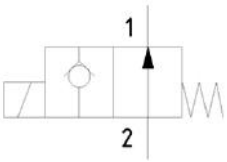
When energized, the valve acts as a check valve, allowing from ① to ②, while blocking flow from ② to ①. When de-energized, allowing flow from ② to ①, while ① to ② is severely restricted.

Specification:

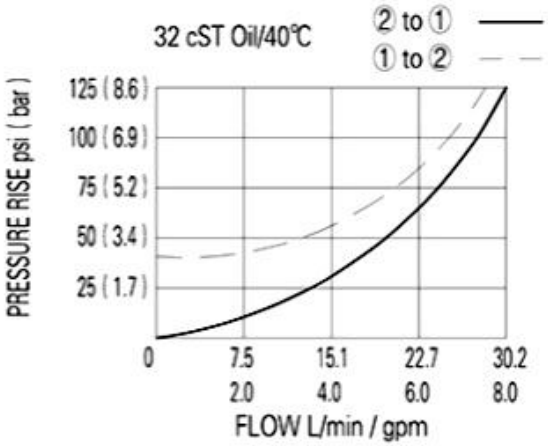
Max. working pressure	250bar
Flow max.	See performance
Internal leakage	5drops/min
Operating volt	12VDC, 24VDC, 110VAC, 220VAC
Min. voltage requires	90% of nominal voltage
Filtration of oil	25μm or better
Type of standard cavity	08-2
Temperature	-30~+100°C standard buna seals



Symbol:



Performance:



MODEL: SCX8-HWY / SCX8H-HWY (NORMALLY CLOSED)

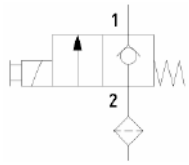
Description of the process:

When de-energized, the valve acts as a check valve, allowing from ① to ②, while blocking flow from ② to ①. When energized, allowing flow from ② to ① and ① to ②.

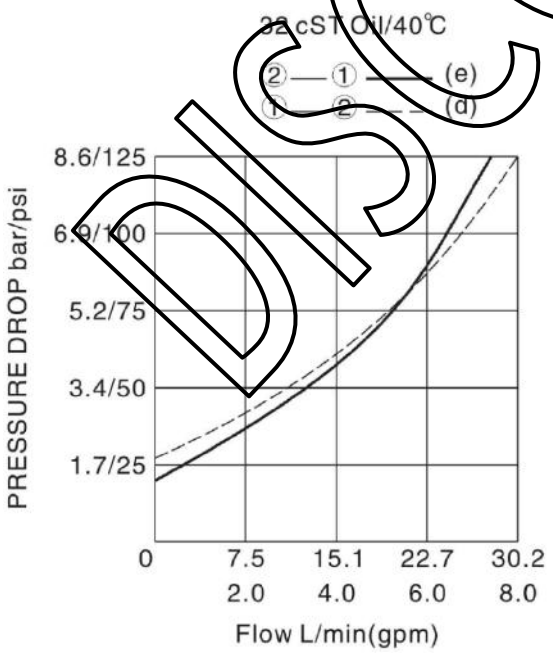
Specification:

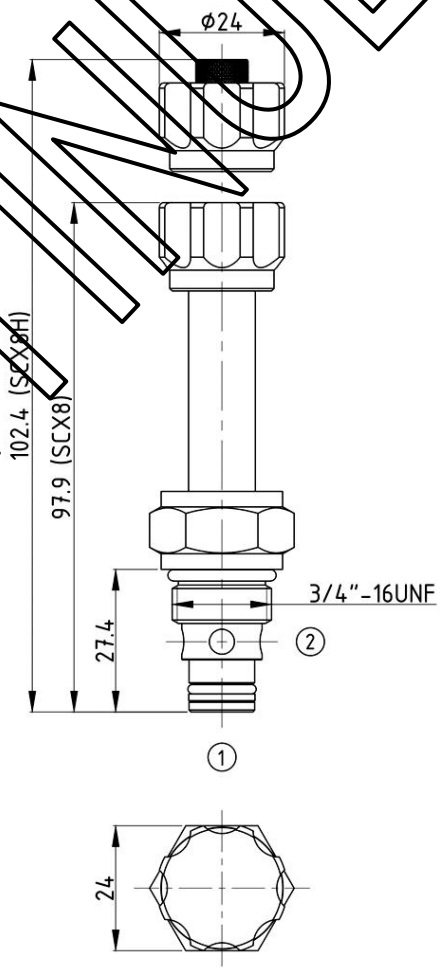
Max. working pressure	250bar
Flow max.	See performance
Internal leakage	0.3ml/min at 210bar 5drops/min
Operating volt	12VDC, 24VDC, 110VAC, 220VAC
Min. voltage requires	85% of nominal voltage
Filtration of oil	20μm or better
Type of standard cavity	08-2
Temperature	-30~+100°C standard buna seals

Symbol:



Performance:





DISCONTINUED

MODEL: SCX8H-TIA (NORMALLY CLOSED)

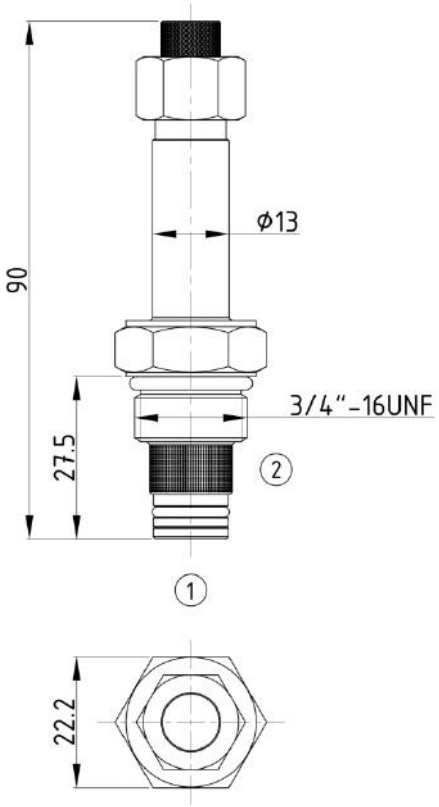
Description of the process:

When de-energized, the valve acts as a check valve, allowing from ① to ②, while blocking flow from ② to ①. When energized, the poppet lifts to opne the ② to ① flow path.

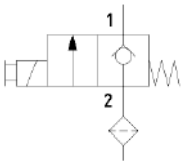
To override, push button in, twist counterclockwise and release. In this position, the valve will remain open. To return normal position, push button in, twist clockwise and release. Override will be detented in this position.

Specification:

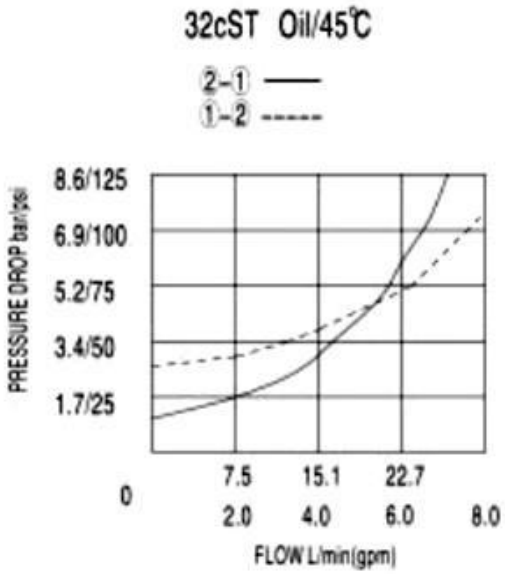
Max. working pressure	250bar
Flow max.	See performance
Internal leakage	5drops/min
Operating volt	12VDC, 24VDC, 110VAC, 220VAC
Min. voltage requires	90% of nominal voltage
Filtration of oil	25μm or better
Type of standard cavity	08-2
Temperature	-30 +100°C standard buna seals



Symbol:



Performance:



MODEL: SDX8-HWY (DOUBLE LOCKING)

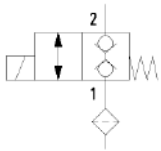
Description of the process:

When de-energized, the valve blocks flow in both directional. When energized, allowing flow from ② to ① and ① to ②.

Specification:

Max. working pressure	250bar
Flow max.	See performance
Internal leakage	0.3ml/min at 210bar 5drops/min
Operating volt	12VDC, 24VDC, 110VAC, 220VAC
Min. voltage requires	85% of nominal voltage
Filtration of oil	20μm or better
Type of standard cavity	08-2
Temperature	-30~+100°C standard buna seals

Symbol:



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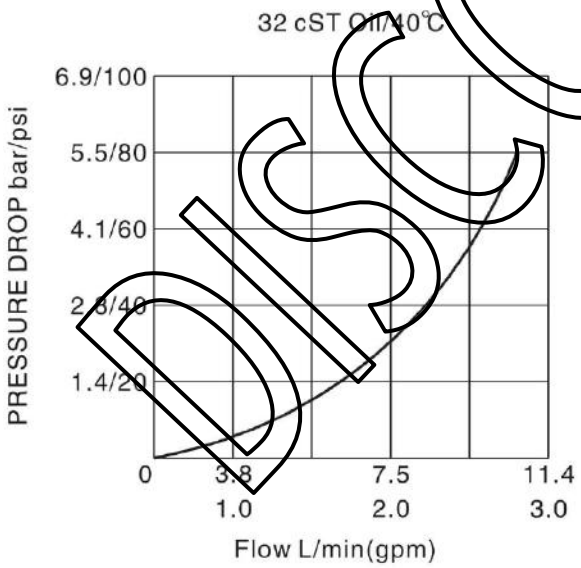
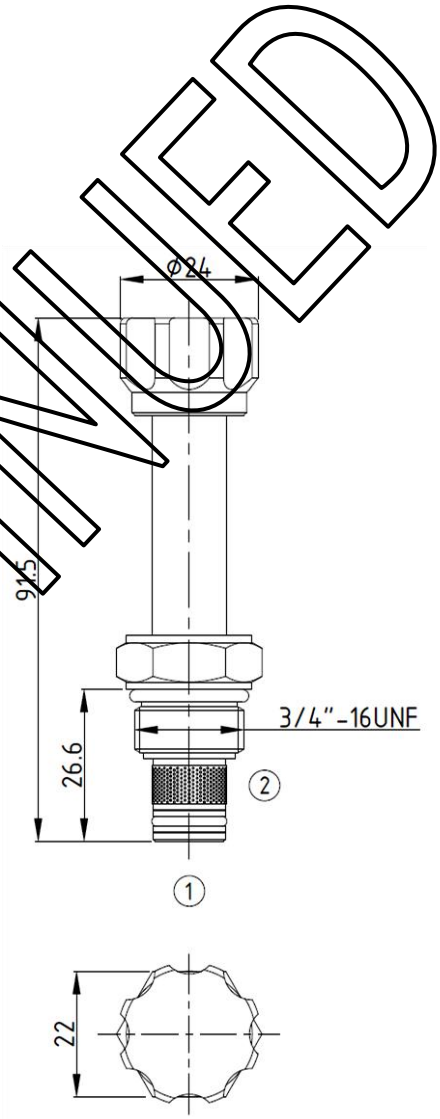




DISCONTINUED

MODEL: SDX8H01-HWY (DOUBLE LOCKING)

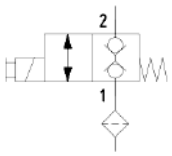
Description of the process:

When de-energized, the valve blocks flow in both directional. When energized, allowing flow from ② to ① and ① to ②.

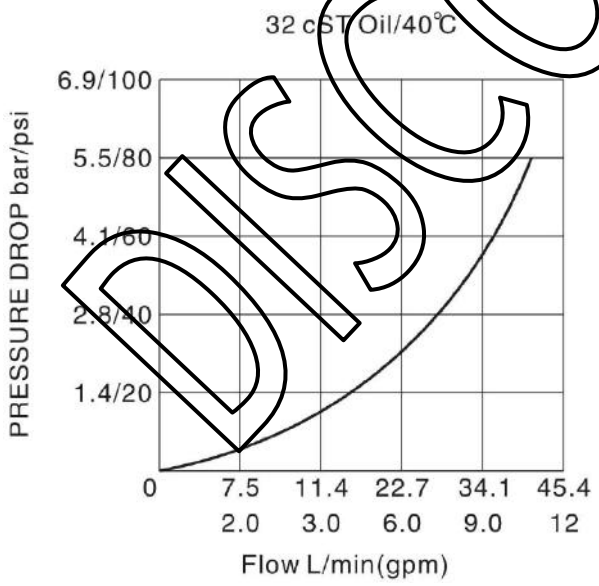
Specification:

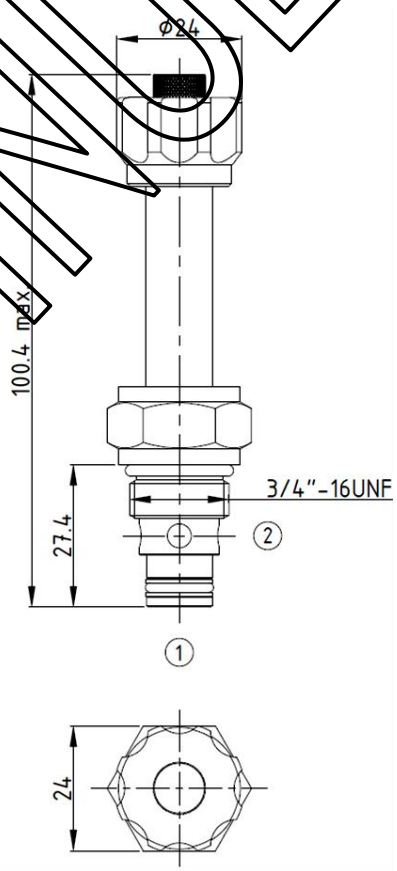
Max. working pressure	250bar
Flow max.	See performance
Internal leakage	0.3ml/min at 210bar 5drops/min
Operating volt	12VDC, 24VDC, 110VAC, 220VAC
Min. voltage requires	85% of nominal voltage
Filtration of oil	20μm or better
Type of standard cavity	08-2
Temperature	-30~+100°C standard buna seals

Symbol:



Performance:





DISCONTINUED

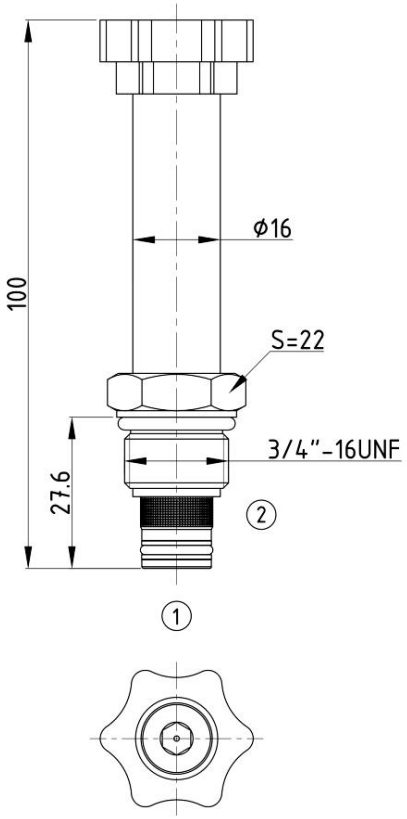
MODEL: SDX8H01-TIA (DOUBLE LOCKING)

Description of the process:

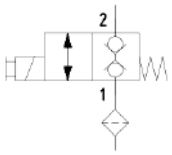
When de-energized, the valve blocks flow in both directional. When energized, the poppet shifts to allow flow in either direction.

Specification:

Max. working pressure	250bar
Flow max.	See performance
Internal leakage	5drops/min
Operating volt	12VDC, 24VDC, 110VAC, 220VAC
Min. voltage requires	90% of nominal voltage
Filtration of oil	25μm or better
Type of standard cavity	08-2
Temperature	-30~+100°C standard buna seals



Symbol:



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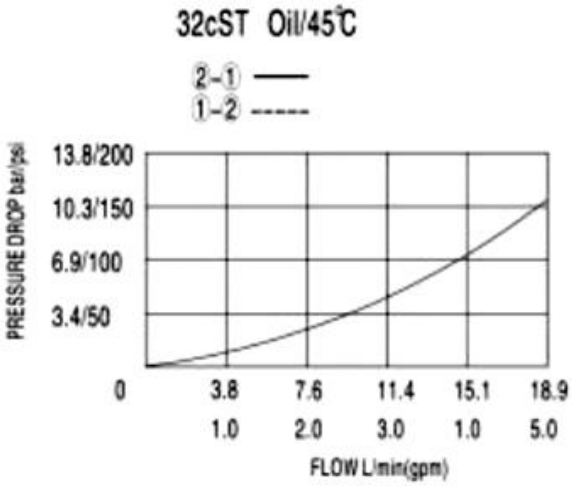


6	X	X	4	X	X	X	X	X	X
	A	B	C	D	E	F		G	

ELECTRO COIL

C - CODE	VOLTAGE
1	DC 12V
2	DC 24V
3	AC 110V
4	AC 220V

E-coil performance and model define

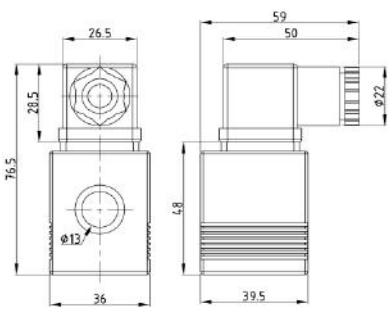
Watts at 20°C		Duty cycle	Operating temp range	Insulation class	Protection class
ECHS	ECHB				
22W	26W	continuous	-30°C ~ + 50°C	H	IP65

Model define:

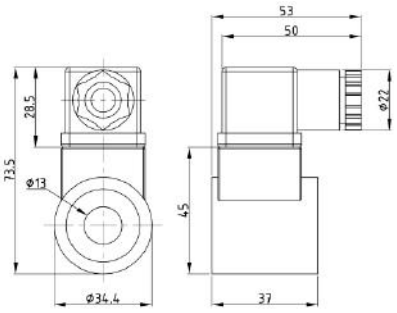
1	2	3	4	5	6
EC	H	S	24	S	

Item	Code	Explanation
1	EC	Electro coil
2	H	Electrical outlet
3	S	Ø13
	B	Ø16
4	12	12VDC
	24	24VDC
	110	110VAC
	220	220VAC
5	S	Square
	R	Round
6		Omit when not necessary
	ED	100% ED

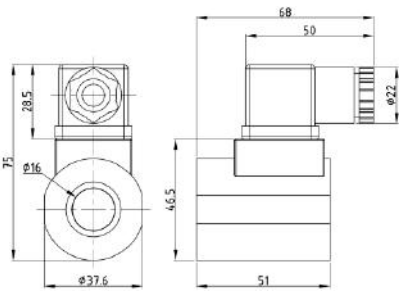
SQUARE ø13



ROUND ø13



ROUND ø16



7 | B | 3 | 6
A | B

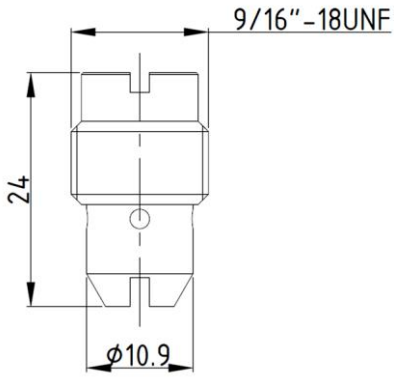
PRESSURE COMPENSATED FIXED CONTROL VALVE

A	CODE	B
	TYPE	Pressure compensated fixed control valve

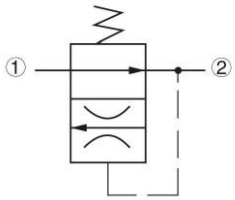
B	CODE		36	47	62	70	85
	FLOW (L/min)	Min.	1.4	2.0	3.5	4.3	5.2
		Max.	3.6	4.7	6.2	7.0	8.5
	øD		1.2	1.5	2.0	2.2	2.5

Specification:

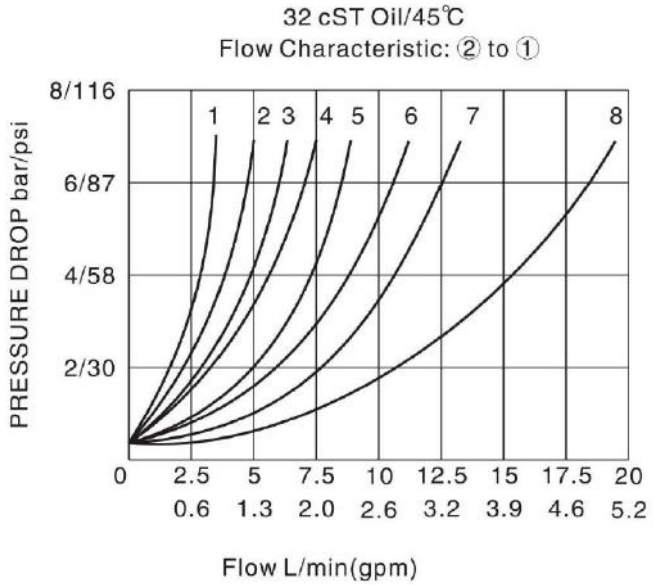
Working pressure range	3.5~210bar
Flow max.	See performance
Filtration of oil	25μm or better



Symbol:



Performance:



7 | F | C | V | 0 | 2
A | B

ADJUSTABLE THROTTLE VALVE

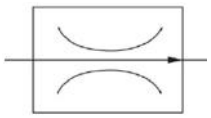
A	CODE	FCV
	TYPE	Adjustable throttle valve

B	CODE	02
	TYPE	Thread M12x1

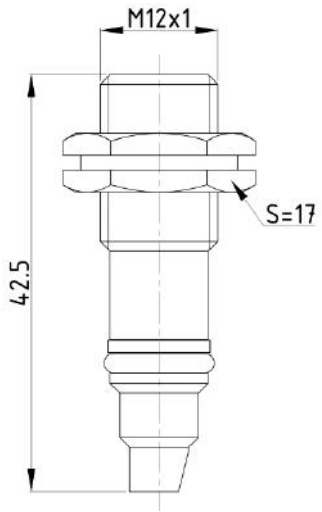
Description of the process:

The valve reduce it orifice value from fully opened to fully closed with clock-wise adjustment rotation. At the same time, the flow from max to shut-off.

Symbol:



Drawing:



7 | G | A | 8
A | B

PRESSURE COMPENSATED ADJUSTABLE THROTTLE VALVE

A	CODE	GA
	TYPE	Pressure compensated adjustable throttle valve

B	CODE	Specification		
		Cavity	Thread	Diameter
	8	08-2	UNF 3/4"	Ø12.7

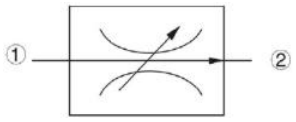
Description of the process:

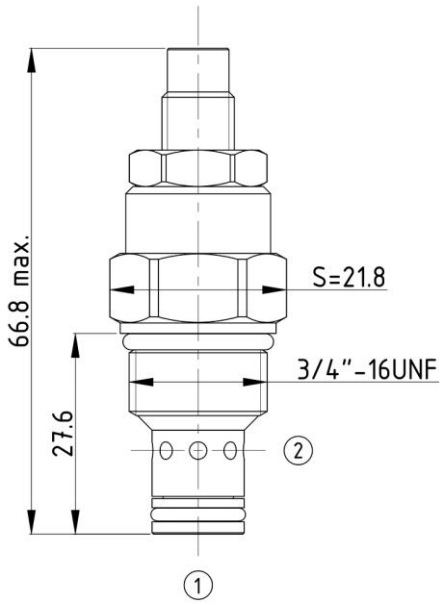
The valve reduce it orifice value from fully opened to fully closed with clock-wise adjustment rotation. At the same time, the flow from max to shut-off.

Specification:

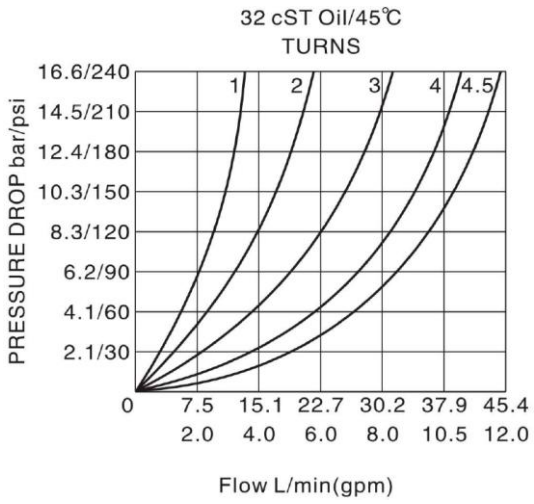
Max. working pressure	240bar
Flow max.	35L/min at 7bar
Internal leakage	≤0.3ml/min at to 210bar
Filtration of oil	25μm or better
Type of standard cavity	08-2
Temperature	-30~+100°C standard buna seals
Installation torque	24.5~27.2Nm

Symbol:





Performance:



7 | N | V | 8 | K
A | B | C

ADJUSTABLE THROTTLE VALVE

A	CODE	NV
	TYPE	Adjustable throttle valve

B	CODE	Specification		
		Cavity	Thread	Diameter
	8	08-2	UNF 3/4"	Ø12.7

C	CODE	K
	TYPE	Knob

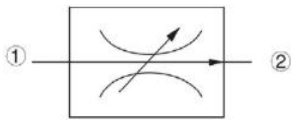
Description of the process:

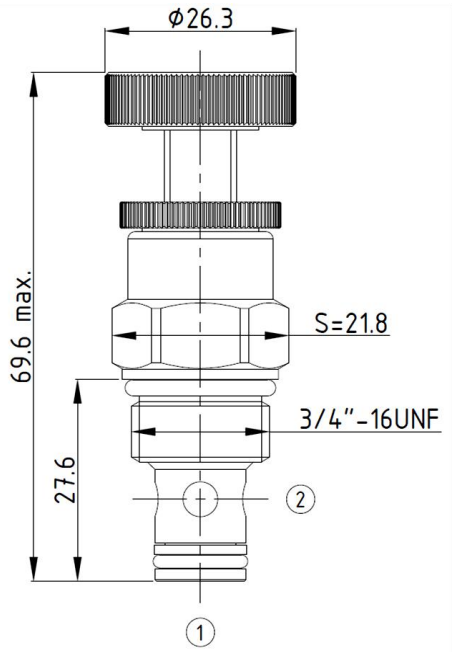
The valve reduce it orifice value from fully opened to fully closed with clock-wise adjustment rotation. At the same time, the flow from max to shut-off.

Specification:

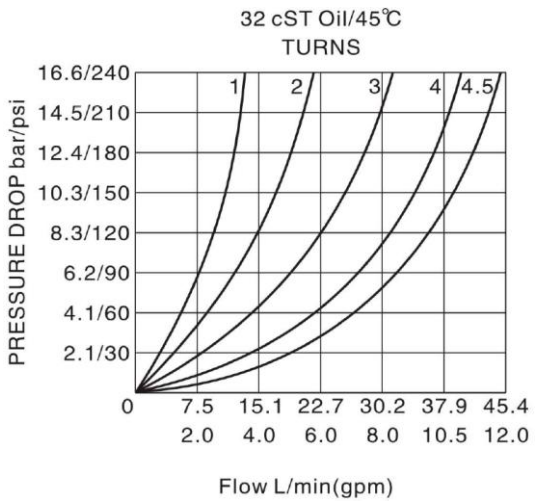
Max. working pressure	240bar
Flow max.	35L/min at 7bar
Internal leakage	≤0.3ml/min at to 210bar
Filtration of oil	25μm or better
Type of standard cavity	08-2
Temperature	-30~+100°C standard buna seals
Installation torque	24.5~27.2Nm

Symbol:





Performance:



R	V	0	8
A		B	

DIRECTLY OPERATED RELIEF VALVES (POPPET-TYPE)

A	CODE	RV
	TYPE	Directly operated relief valve (poppet-type)

B	CODE	Specification		
		Cavity	Thread	Diameter
	08	08-2	UNF 3/4"	Ø12.7

DISCONTINUED

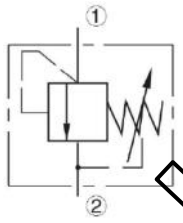
Description of the process:

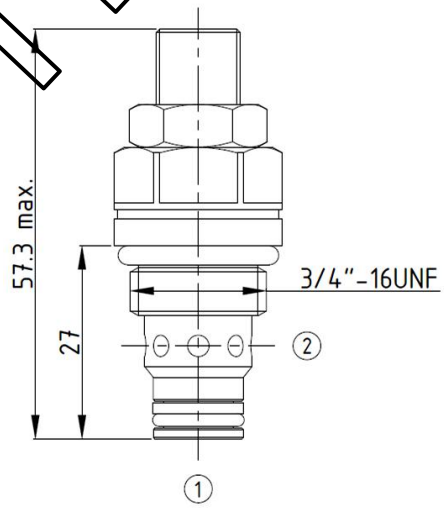
The valve blocks flow from ① to ② until 85% pressure is present at ①. With the continued increase pressure on ①, ① to ② began to overflow, until to the spring's maximum pressure.

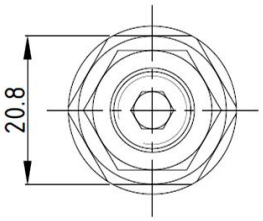
Specification:

Max. working pressure	350bar
Flow max.	11L/min
Internal leakage	≤30ml/min
(75~80% of setting pressure at 8L/min)	
Filtration of oil	25μm or better
Cavity	08-2
Temperature	-30~+100°C standard buna seals
Installation torque	24.5~27.2Nm

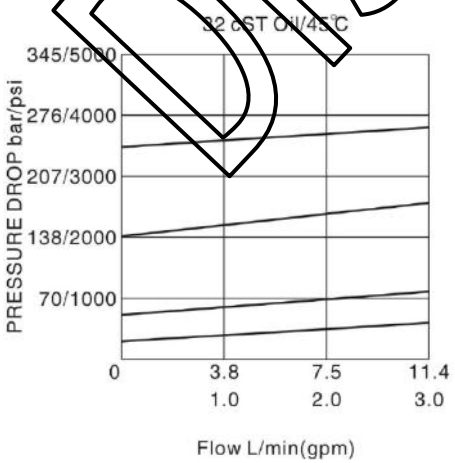
Symbol:







Performance:



R	V	2	0	8
A			B	

ADJUSTABLE DIRECTLY RELIEF VALVES (POPPET-TYPE)

A	CODE	RV2
	TYPE	Adjustable directly relief valve (poppet-type)

B	CODE	Specification		
		Cavity	Thread	Diameter
	08	08-2	UNF 3/4"	Ø12.7

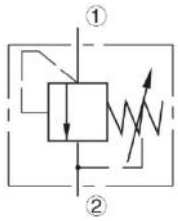
Description of the process:

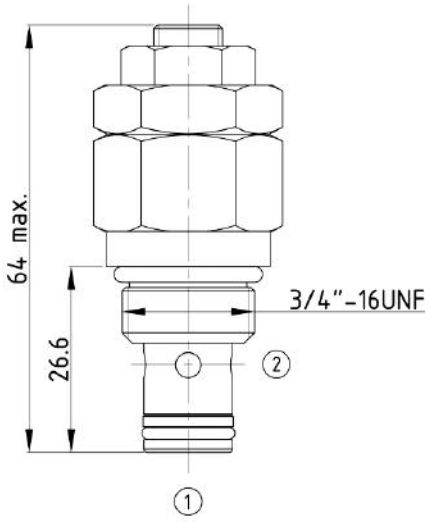
The valve prevents flow from ① to ② until the set crack pressure at ① is achieved. The poppet then unseats allowing flow from ① to ② protecting the circuit from over pressurization.

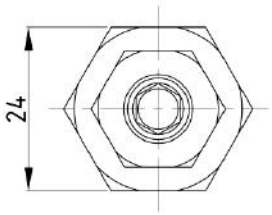
Specification:

Max. working pressure	315bar
Flow max.	11L/min
Internal leakage	≤30ml/min
(75~80% of setting pressure at 8L/min)	
Filtration of oil	25μm or better
Cavity	08-2
Temperature	-30~+100°C standard buna seals

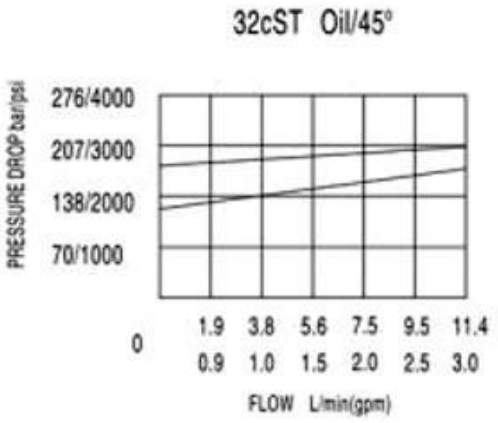
Symbol:







Performance:



R	V	P	S	0	8	H	W	Y
A				B		MAKER		

PILOT OPERATED RELIEF VALVE

A	CODE	RVPS
	TYPE	Pilot operated relief valve

		Specification		
B	CODE	Cavity	Thread	Diameter
	08	08-2	UNF 3/4"	Ø12.7

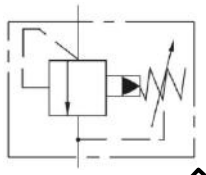
Description of the process:

The valve blocks flow from ① to ② until 85% pressure is present at ①. With the continued increase pressure on ①, ① to ② began to overflow, until to the spring's maximum pressure.

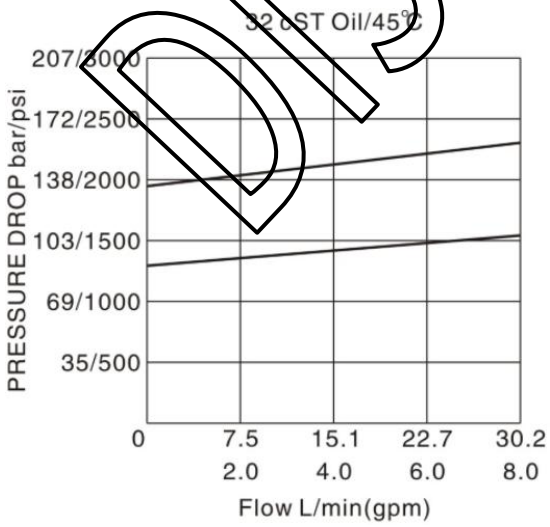
Specification:

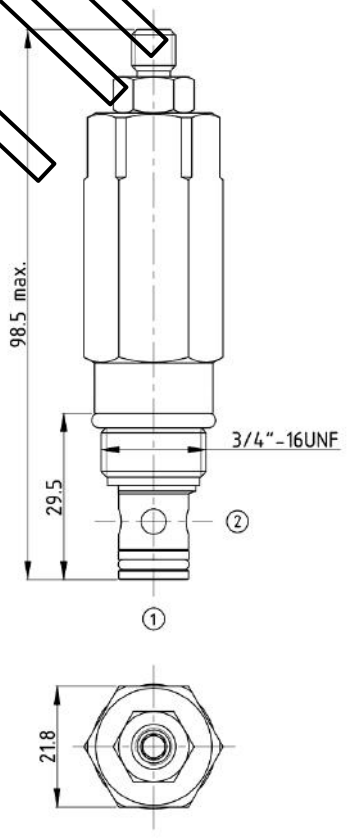
Max. working pressure	210bar
Flow max.	30L/min
Internal leakage	≤30ml/min
(75~85% of setting pressure at 15L/min)	
Filtration of oil	25μm or better
Cavity	08-2
Temperature	-30~+100°C standard buna seals
Installation torque	24.5~27.2Nm

Symbol:



Performance:





DISCONTINUED

R	V	P	S	0	8	T	I	A
A				B		MAKER		

PILOT OPERATED RELIEF VALVE

A	CODE	RVPS
	TYPE	Pilot operated relief valve

		Specification		
B	CODE	Cavity	Thread	Diameter
	08	08-2	UNF 3/4"	Ø12.7

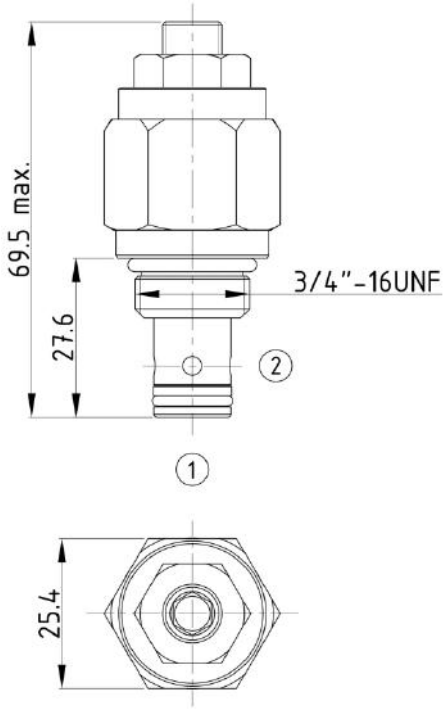
Description of the process:

The valve prevents flow from ① to ② until pressure at ① exceeds the set crack pressure and opens the pilot section.

The pilot flow creates a pressure differential across the spool which causes the valve to open allowing flow from ① to ② protecting the circuit from over pressurization.

Specification:

Pressure range	5.5~350bar
Flow max.	50L/min
Internal leakage	≤70cc/min
Filtration of oil	25μm or better
Cavity	08-2
Temperature	-30~+100°C standard buna seals
Installation torque	25~28Nm



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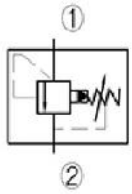
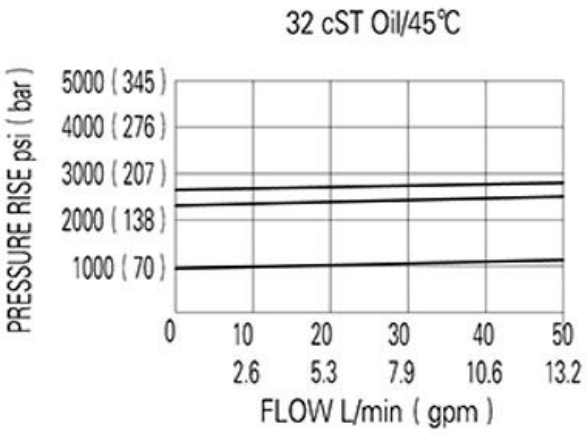


Performance:



R	V	P	S	1	0	H	W	Y
A				B		MAKER		

PILOT OPERATED RELIEF VALVE

A	CODE	RVPS
	TYPE	Pilot operated relief valve

B	CODE	Specification		
		Cavity	Thread	Diameter
	10	10-2	UNF 7/8”	Ø15.8

DISCONTINUED

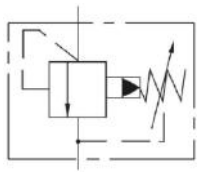
Description of the process:

The valve blocks flow from ① to ② until 85% pressure is present at ①. With the continued increase pressure on ①, ① to ② began to overflow, until to the spring’s maximum pressure.

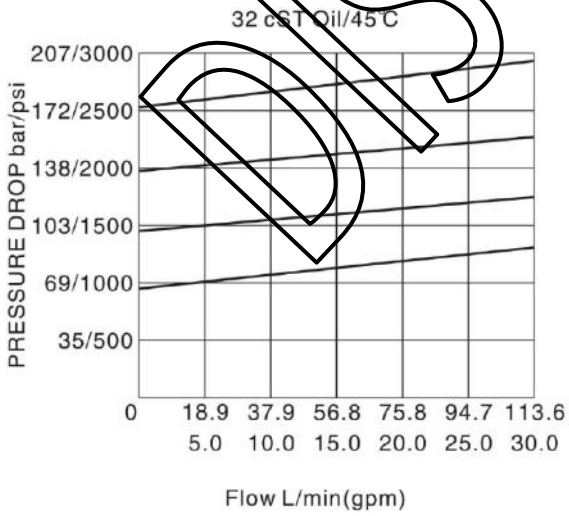
Specification:

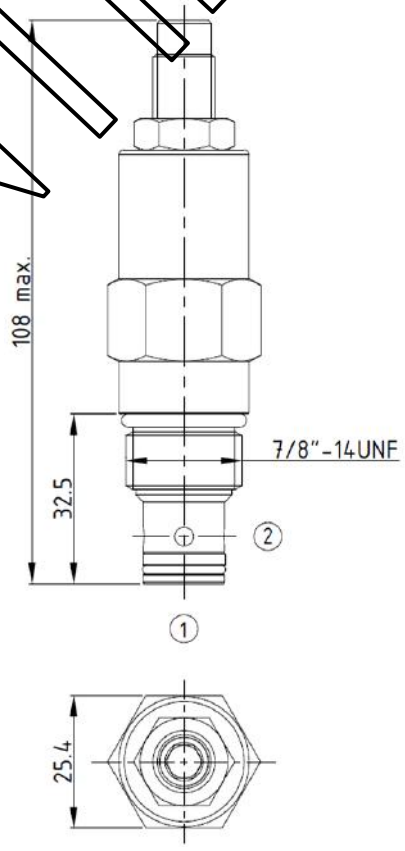
Max. working pressure	230bar
Flow max.	113L/min
Internal leakage	≤30ml/min
(75~80% of setting pressure at 30L/min)	
Filtration of oil	25μm or better
Cavity	10-2
Temperature	-30~+100°C standard buna seals
Installation torque	33.9~36.7Nm

Symbol:



Performance:





R	V	P	S	1	0	3	4	5	T	I	A
A				B		C			MAKER		

PILOT OPERATED RELIEF VALVE

A	CODE	RVPS
	TYPE	Pilot operated relief valve

B	CODE	Specification		
		Cavity	Thread	Diameter
	10	10-2	UNF 7/8"	Ø15.8

C	Pressure range (bar)			
	CODE	80	165	345
		10~83	45~165	85~345

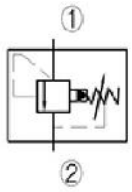
Description of the process:

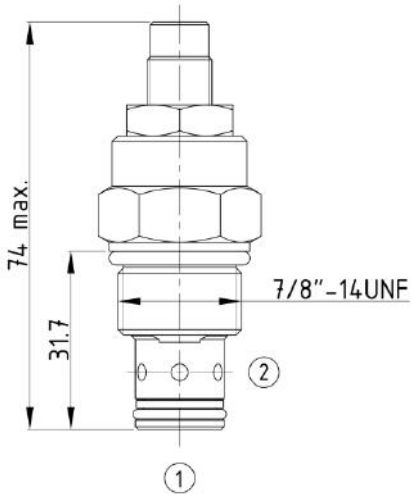
The valve blocks flow from ① to ② until 85% pressure is present at ①. With the continued increase pressure on ①, ① to ② began to overflow, until to the spring's maximum pressure.

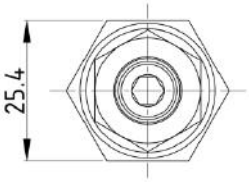
Specification:

Max. working pressure	345bar
Flow max.	113.6L/min
Internal leakage	≤70cc/min
Filtration of oil	25μm or better
Cavity	10-2
Temperature	-30~+100°C standard buna seals
Installation torque	34~37Nm

Symbol:







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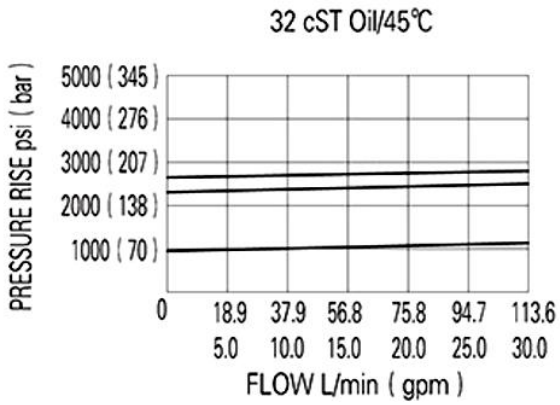


C	V	0	8
A		B	

CHECK VALVE (POPPET-TYPE)

A	CODE	CV
	TYPE	Check valve (poppet-type)

		Specification		
B	CODE	Cavity	Thread	Diameter
	08	08-2	UNF 3/4"	Ø12.7

DISCONTINUED

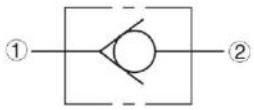
Description of the process:

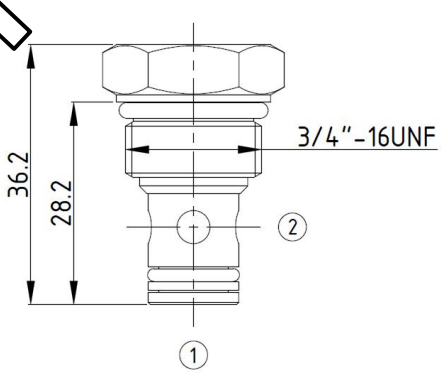
The valve allows flow from ① to ② with very low pressure drop, while blocks flow from ② to ①.
The valve blocks flow from ① to ② until sufficient pressure is applied at ①.

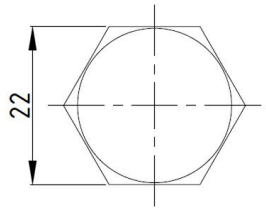
Specification:

Max. working pressure	315bar
Flow max.	30L/min
② to ① Internal leakage	≤0.3ml/min at to 210bar
Filtration of oil	25μm or better
Type of standard cavity	08-2
Temperature	-30~+100°C standard buna seals
Installation torque	24.5~27.2Nm

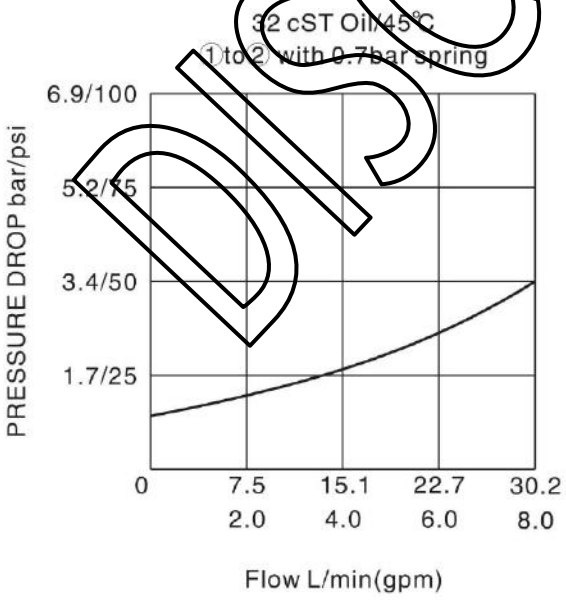
Symbol:







Performance:



C	V	2	0	8
A			B	

CHECK VALVE (BALL TYPE)

	CODE	CV2
A	TYPE	Direct acting, ball type cartridge check valve

	CODE	Specification		
		Cavity	Thread	Diameter
B	08	08-2	UNF 3/4"	Ø12.7

Description of the process:

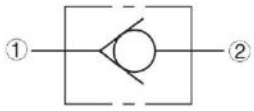
Pressure at overcomes the spring-bias poppet and allows free flow ② to ①.

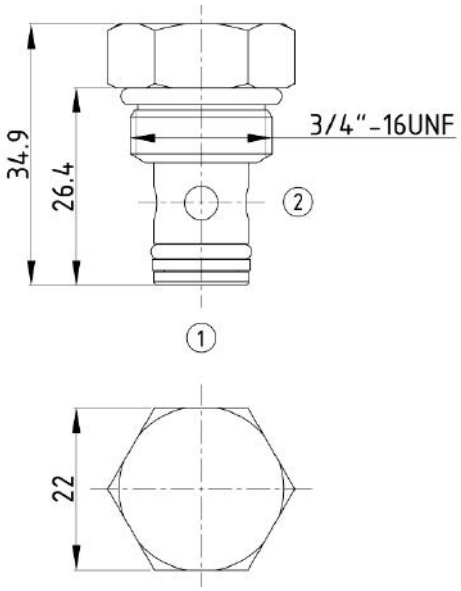
Flow in the opposite direction, from ② to ①, is blocked by the poppet.

Specification:

Max. working pressure	315bar
Flow max.	30L/min
② to ① Internal leakage	≤0.3cc/min at to 210bar
Filtration of oil	25μm or better
Type of standard cavity	08-2
Temperature	-30~+100°C standard buna seals
Installation torque	24.5~27.2Nm

Symbol:





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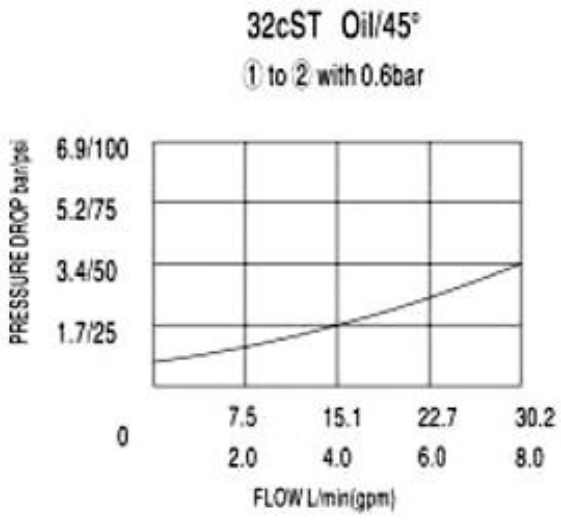


N	V	1	0
A		B	

ADJUSTABLE THROTTLE VALVE

A	CODE	NV		
	TYPE	Adjustable throttle valve		

B	CODE	Specification		
		Cavity	Thread	Diameter
	10	10-2	UNF 7/8”	Ø15.87

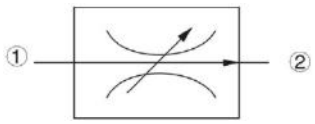
Description of the process:

The valve reduce it orifice value from fully opened to fully closed with clock-wise adjustment rotation. At the same time, the flow from max to shut-off.

Specification:

Max. working pressure	240bar
Flow max.	56L/min at 7bar
Internal leakage	≤0.3ml/min at to 210bar
Filtration of oil	25μm or better
Type of standard cavity	10-2
Temperature	-30~+100°C standard buna seals
Installation torque	33.9~36.7Nm

Symbol:



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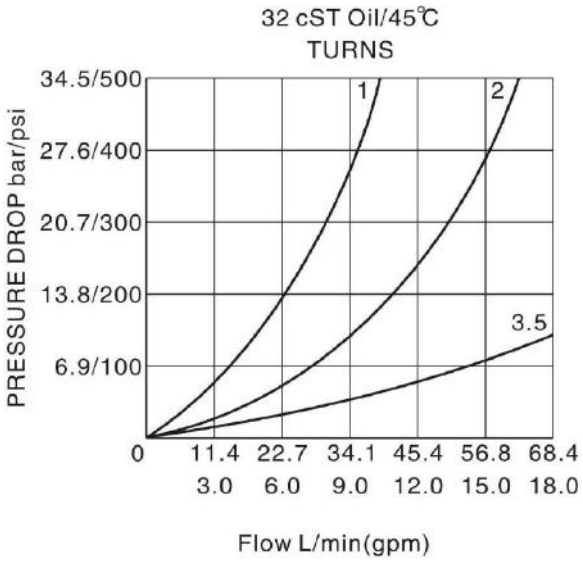
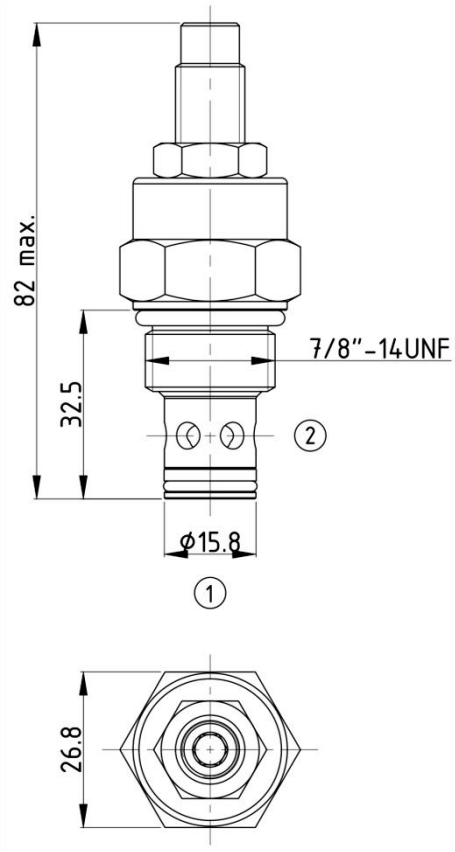




N	V	C	1	0	K
A			B		C

ONE-WAY THROTTLE VALVE

A	CODE	NVC
	TYPE	One-way throttle valve

		Specification		
B	CODE	Cavity	Thread	Diameter
	10	10-2	UNF 7/8"	Ø15.87

C	CODE	K
	TYPE	Knob

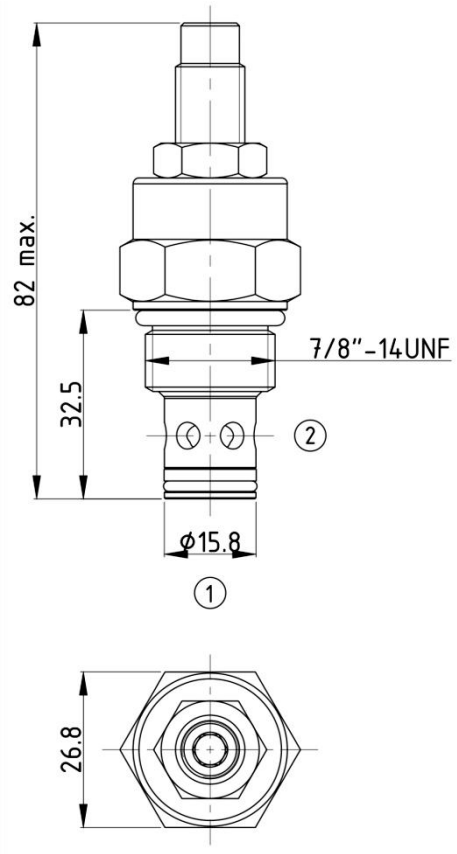
Description of the process:

Turn adjusting screw clockwise to make the valve from fully open to fully closed, the flow from the biggest to completely stop. As the internal leakage is less than 0.3 m/min (210bar).

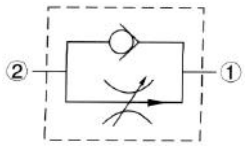
This valve reverse flow that ① to ② allowed to move freely, whithout throttle function.

Specification:

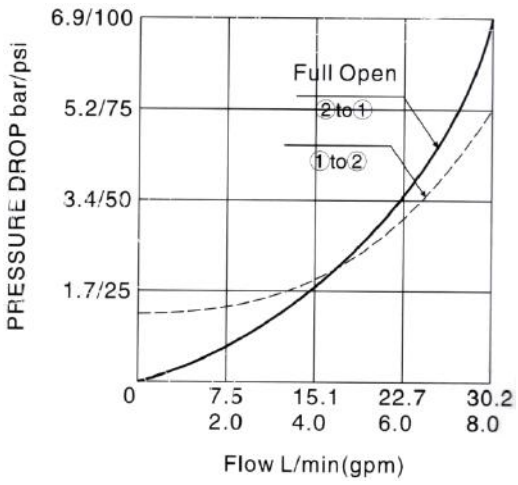
Max. working pressure	240bar
Flow max.	45L/min at 7bar (full open)
Internal leakage	≤0.3ml/min
Filtration of oil	25μm or better
Type of standard cavity	10-2
Temperature	-30~+100°C standard buna seals
Installation torque	33.9~36.7Nm



Symbol:



Performance:



H	P	0	8	0	1
A		B		DESIGN	

HAND PUMP

A	CODE	HP
	TYPE	Hand pump

		Specification		
B	CODE	Cavity	Thread	Diameter
	08	08-2	UNF 3/4"	Ø12.7

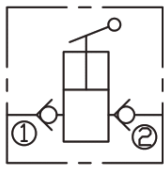
Description of the process:

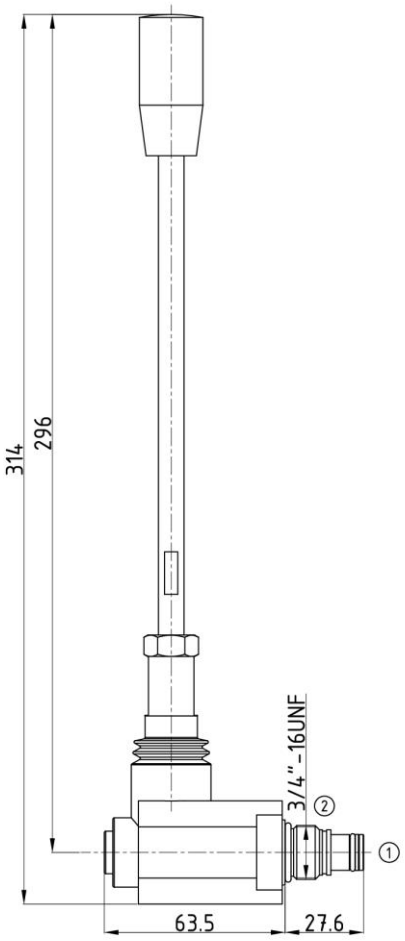
When the piston is advanced, the manual pump can be discharged from the ② port 3.8cc flow, from ① to inhaled oil.

Specification:

Max. working pressure	250bar
Internal leakage	0.3ml/min at 210bar
Filtration of oil	25μm or better
Cavity	08-2
Temperature	-30~+100°C standard buna seals

Symbol:





H	P	1	0	0	0
A		B		DESIGN	

HAND PUMP

A	CODE	HP
	TYPE	Hand pump

		Specification		
B	CODE	Cavity	Thread	Diameter
	10	10-2	UNF 7/8"	Ø15.87

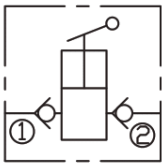
Description of the process:

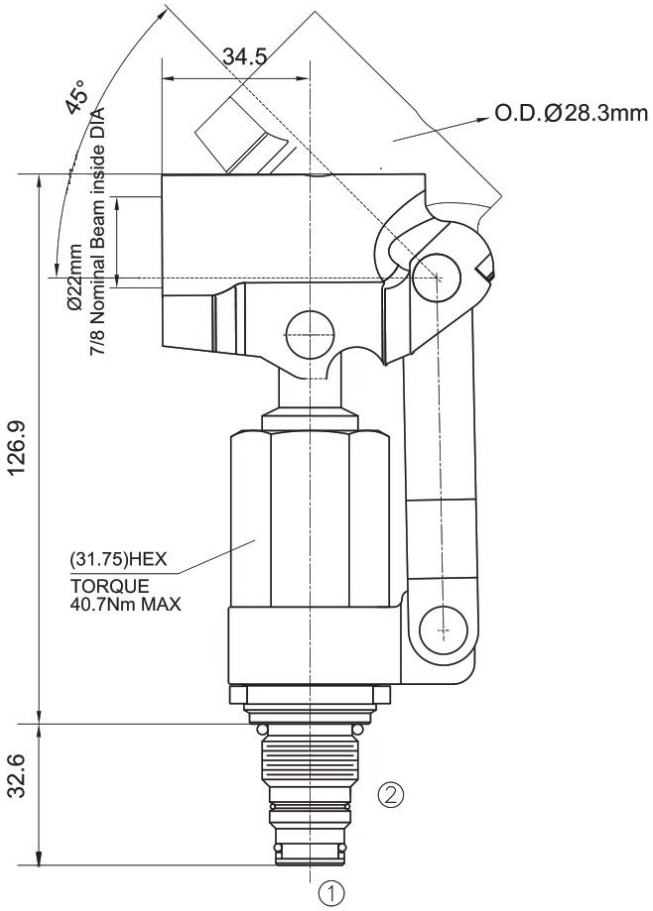
When the piston is advanced, the flow of the 8.8cc can be discharged from the ② port when the piston is pulled out, and when the piston is pulled out, the oil can be sucked in to the oil from the ① port.

Specification:

Max. working pressure	207bar
Internal leakage	2 drops/min max at 138bar
Filtration of oil	25μm or better
Cavity	10.2
Temperature	-30~+100°C standard buna seals

Symbol:





8 B M E X / A B — DIRECTIONAL SANDWICH BLOCK (for Double Acting Circuit)

Note:

If you need more than 2pcs of different modular blocks, please specify them in next blank.

P & T O-ring: 2-115 x 2pcs

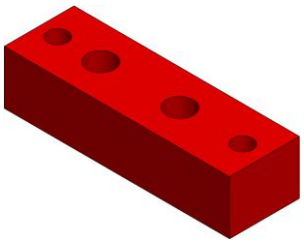
A	CODE	BME	BM3	BM2	BM4	BMF
	TYPE	Spacing Block	Block for CETOP-3 valve Parallel circuit	Block for CETOP-3 valve Series circuit	Block with pilot operated Check valve A & B for CETOP-3 valve	Block with pilot operated Check valve A & B for CETOP-3 valve

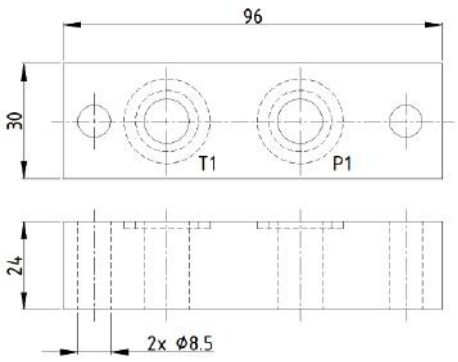
B	QUANTITY

8 B M E X / A B — DIRECTIONAL SANDWICH BLOCK (for Double Acting Circuit)

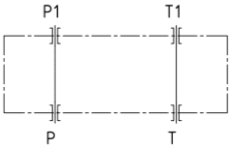
Working Pressure (Max)	Flow (Max.)	Ports size	
		P1	T1
-	-	ø11.8	ø11.8

DIMENSION





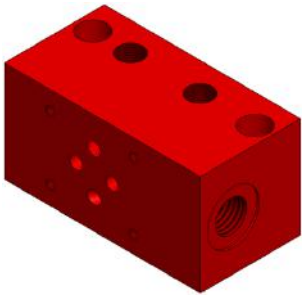
DIAGRAM

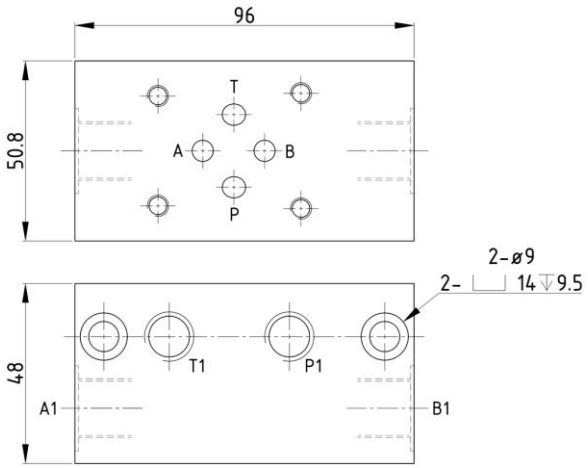


8 B M 3 X (A / B) — DIRECTIONAL SANDWICH BLOCK (for Double Acting Circuit)

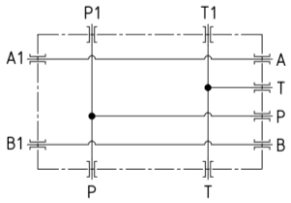
Working Pressure (Max)	Flow (Max.)	Ports size			
		P1	T1	A1	B1
250 kg.f/cm³	40 L/min	1/4"BSP	1/4"BSP	3/8"BSP	3/8"BSP

DIMENSION





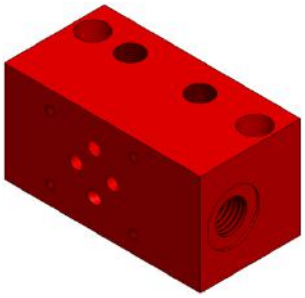
DIAGRAM

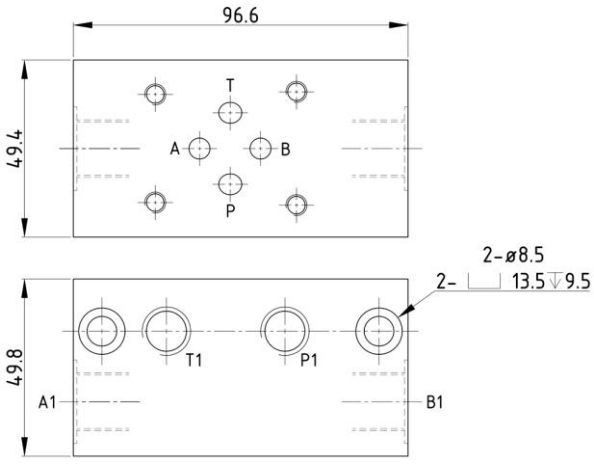


8 B M 2 X (A / B) — DIRECTIONAL SANDWICH BLOCK (for Double Acting Circuit)

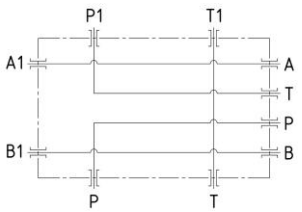
Working Pressure (Max)	Flow (Max.)	Ports size			
		P1	T1	A1	B1
250 kg.f/cm³	40 L/min	1/4"BSP	1/4"BSP	3/8"BSP	3/8"BSP

DIMENSION





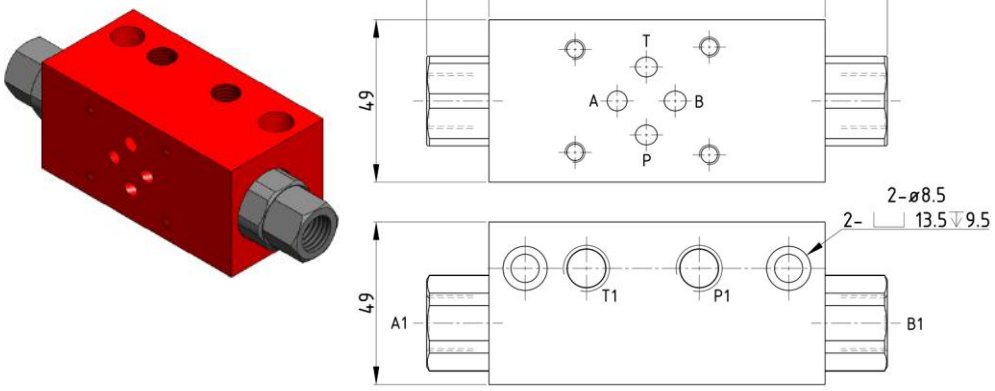
DIAGRAM



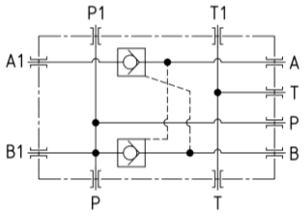
8 B M 4 X (A / B) — DIRECTIONAL SANDWICH BLOCK (for Double Acting Circuit)

Working Pressure (Max)	Flow (Max.)	Ports size			
		P1	T1	A1	B1
250 kg.f/cm³	40 L/min	1/4"BSP	1/4"BSP	3/8"BSP	3/8"BSP

DIMENSION



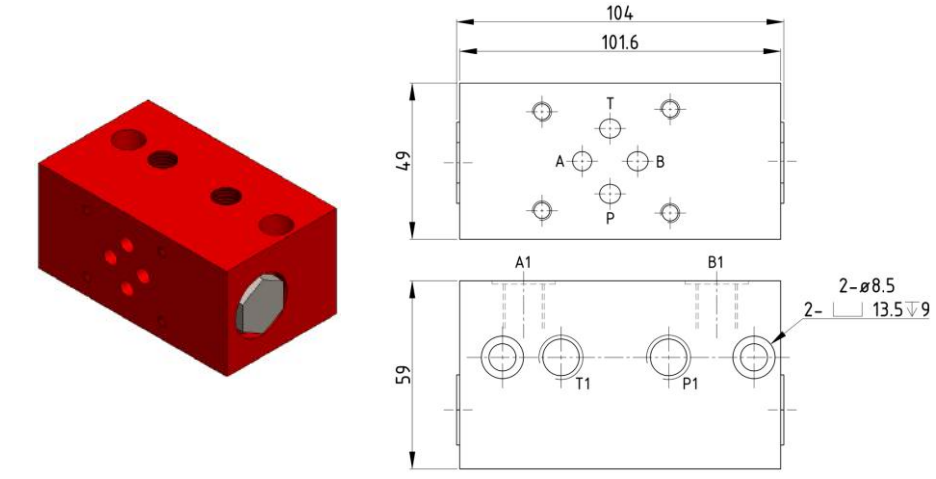
DIAGRAM



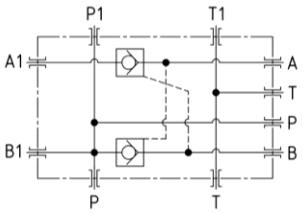
8 B M F X (A / B) — DIRECTIONAL SANDWICH BLOCK (for Double Acting Circuit)

Working Pressure (Max)	Flow (Max.)	Ports size			
		P1	T1	A1	B1
250 kg.f/cm³	40 L/min	1/4"BSP	1/4"BSP	1/4"BSP	1/4"BSP

DIMENSION



DIAGRAM



9	E	2	2	0	V	1
	A	B				C

DIRECTIONAL VALVE

A	CODE	SYMBOL (Solenoid operated directional valve size 6)			
	TYPE	See symbol list on page 58			
B	VOLTAGE	12V	24V	110V	220V
C	QUANTITY				

Note:

If you need more than 2pcs of different modular blocks, please specify them in next blank.

INTRODUCTION AND CHARACTERISTIC

- The 4WE 6 directional valves are solenoid operated directional spool valves;
- They control the start, stop and directional of flow;
- It is unnecessary to open the pressure tight chamber when changing the coil;
- Under urgent situation, the spool can be drived by hidden hand override.

ORDERING DETAILS

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
4WE				/										S	

Item	Collocation	Code	Explanation
1	Sort	4WE	4/3 and 4/2 solenoid operated direction valve
2	Nominal size	6	
		10	
3	Operated Directional Cushion	No code	Standard
		S	Cushion operated directional impact is small
4	Symbols		See symbols list
5	Series	6X	For nominal size 6
		3X	For nominal size 10
6	Return mode	No code	Spring Return
		O	Without Spring Return
		OF	With detent
7		E	For nominal size 6, high power solenoid
		C	For nominal size 10
8	Input voltage	W220	220V/50Hz, 240V/60Hz
		W110	110V/50Hz, 120V/60Hz
		RAC220	220V/50Hz, 240V/60Hz
		RAC110	110V/50Hz, 120V/60Hz
		G12	12V
		G24	24V
		G48	48V
9	*Hand override*	N9	With protected hand override (standard)
		N*	With hand override

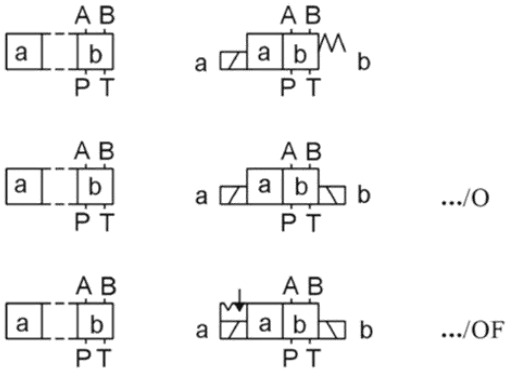
Item	Collocation	Code	Explanation
10	Electrical connections	K4	Individual connections with component plug ISO4400 without plug-in connector
		DL	Central connections terminal box with cable connector, with indicator light
11	Plug-in connector	No code	Without plug-in connector
		Z4	With guadrate plug-in connector
		Z5L	Guadrate plug-in connector with indicator light
		F6L	With waterproof [1] plug-in connector
12	Throttle position	No code	Without cartridge throttle
		P	Active in the P line
		A	Active in the A line
		B	Active in the B line
13	Throttle diameter	No code	Without cartridge throttle
		08	Throttle ø0.8mm
		10	Throttle ø1.0mm
		12	Throttle ø1.2mm
14	Seal material	No code	NBR seals
		V	FKM seals
15		S	SUNNY hydraulic technical
16			Futher details in clear text

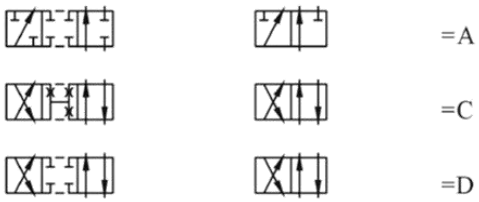
Note:

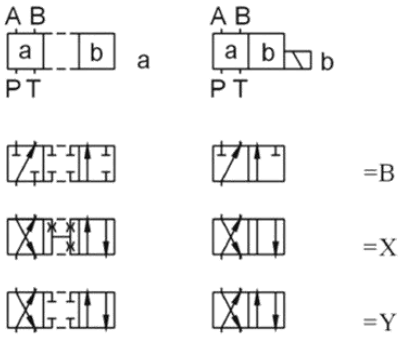
[1] Waterproof degree of plug-in connector is IP65;

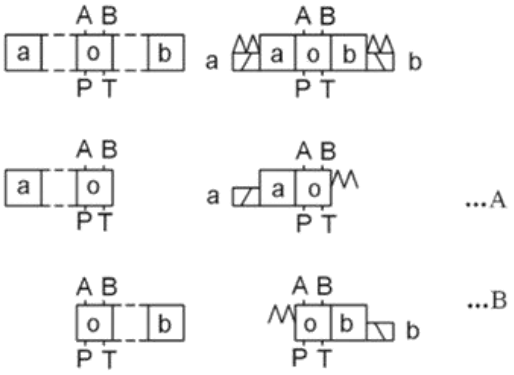
***** Please consult us when you choose this application.

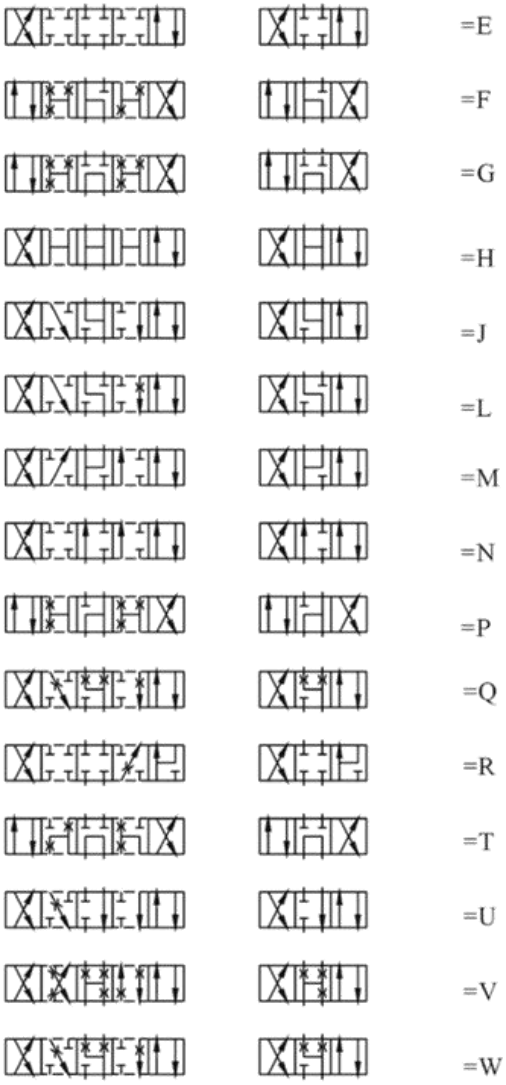
SYMBOLS











Remark:

1. Example: spool E with switching position “a” ordering Details… EA…

2. The symbol tag is same for W and Q type spool. But the throttle area for W and Q type spool is 3% and 6% of J type spool’s.

3. There are special cushion spools for C, E, J, L, U codes. Please add S type if need.

4. For special requirement, please contract with our company’s technical department. We can design special spool.

TECHNICAL DATA

General		Size 6
Weight	Valve with 1 solenoids (Kg)	1.65
	Valve with 2 solenoids (Kg)	2.25
Ambient temperature °C		-30 to 50
Installation		optional

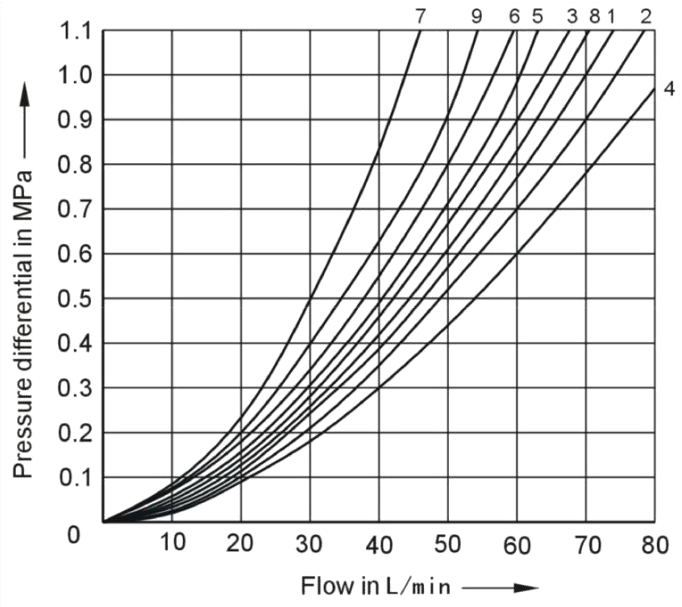
Hydraulic		Size 6
Flow Max. (L/min)		Up to 80 (=); Up to 60 (~)
Operating pressure max	Ports A, B, P (Mpa)	35
	Ports T (Mpa)	Up to 21 (=); Up to 16 (~) [3]
Pressure fluid: [1] suitable for NBR and FKM seals; [2] only suitable for FKM seals		Mineral oil (HL, HLP) to DIN 51524 [1]; Fast bio-degradable pressure fluid to VDMA 24568; HETG (rape seed oil) [1]; HEPG (Polyglycol); HEES (Synthetic ester)[2]; Other fluids on request
Pressure fluid temperature range	NBR seals (°C)	-30 to +80
	FKM seals (°C)	-20 to +80
Viscosity range (mm^2/s)		2.8 to 500
Degree of fluid contamination		Maximum permissible degree of contamination of fluid is to NAS 1638 class 9. We, therefore, recommend a fither miximum retention rat of ß 10 ≥ 25.

Electrical		Size 6	
		DC	AC 50/60 Hz
Voltage available (V)		12, 24 , 48	110, 120, 220, 240
Voltage tolerance (nominal voltage) (%)		±10	±10
Power consumption (W)		32	-
Holding current (A)		-	-
In-rush current (A)		-	<2
Shifting time to ISO6403	ON (ms)	25 to 45	10 to 20
	OFF (ms)	10 to 25	15 to 40
Shifting frequency (Sw/h)		Up to 15000	Up to 7200
Insulation to DIN 40 050		IP65	IP65
Coil temperature (°C)		Up to +155	Up to +180

Note: [3] For with symbols A and B, port T must be used as a drain port, if the operating pressure is above the permissible tank pressure.

CHARACTERISTIC CURVES (MEASURED AT V=41MM²/S AND T=50°C)

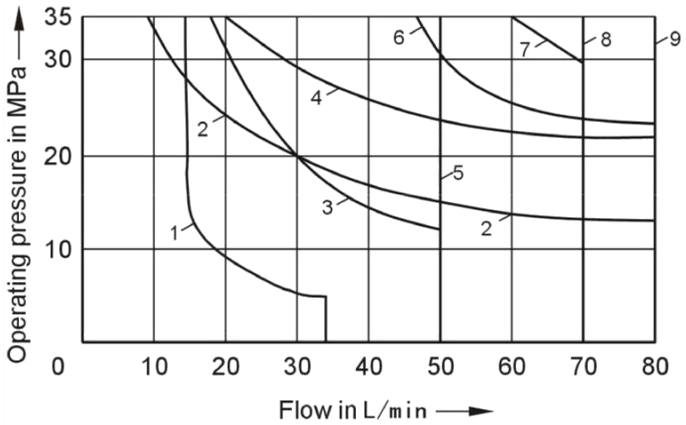
Nominal size 6



Symbol	Flow direction				
	P — A	P — B	A — T	B — T	P — T
A, B	3	3	-	-	-
C, X	1	1	3	1	-
D, Y	5	5	3	3	-
E	3	3	1	1	-
F	1	3	1	1	-
G	6	6	8	8	7
H	2	4	2	2	-
J, Q	1	1	2	1	-
L	3	3	4	8	-
M	2	4	3	3	-
P	3	1	1	1	-
R	5	5	4	-	-
T	9	9	8	8	7
U	3	3	8	4	-
V	1	2	1	1	-
W	1	1	2	2	-

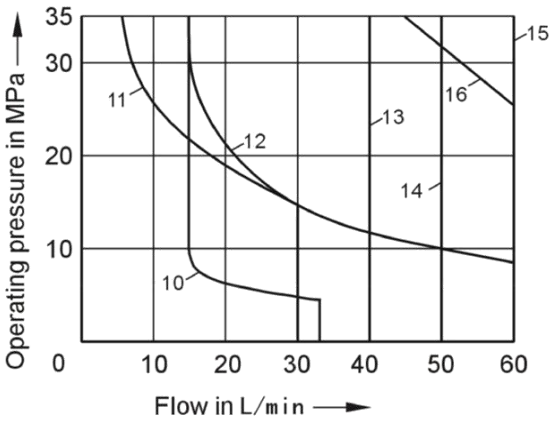
SHIFTING POWER LIMITS

The given switching power limits are for applications with two flow directions, and were measured with the solenoids at operating temperature, 10% under voltage and without tank back pressure.
Measured at v=41mm²/s and t=50°C.



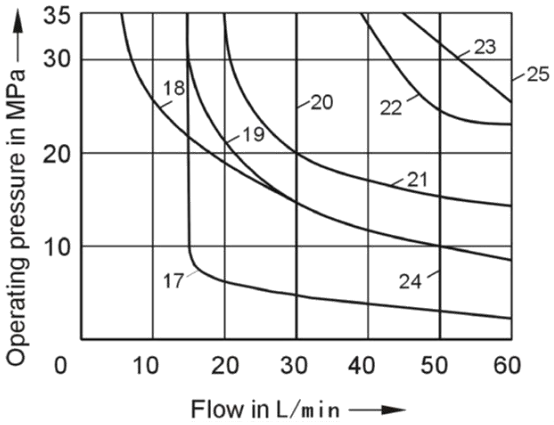
DC SOLENOID

Curve	Symbol
1	V
2	A, B
3	F, P
4	J
5	G, H, T
6	A/O, A/OF, L, U
7	C, D, Y
8	M
9	E, C/O, C/OF, D/O, D/OF, Q, W, R



50Hz AC SOLENOID

Curve	Symbol
10	V
11	A, B
12	F, P
13	G, T
14	H
15	A/O, A/OF, C/O, C/OF, D/O, D/OF, Q, W, R
16	C, D, Y

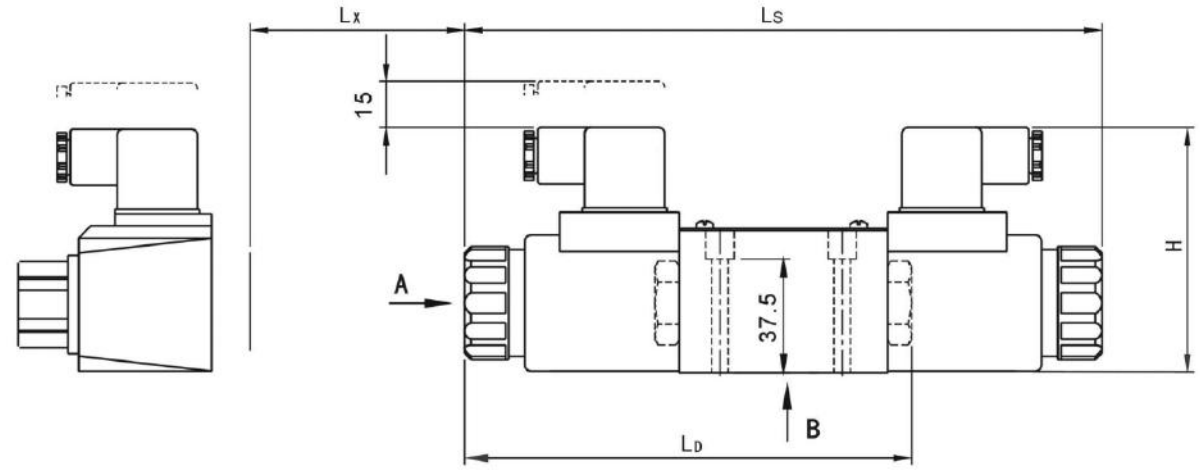


60Hz AC SOLENOID

Curve	Symbol
17	V
18	A, B
18	F, P
20	G, T
21	L, U, J
22	A/O, A/OF, Q, W
23	C, D, Y
24	H
25	C/O, C/OF, D/O, D/OF, E, M, R

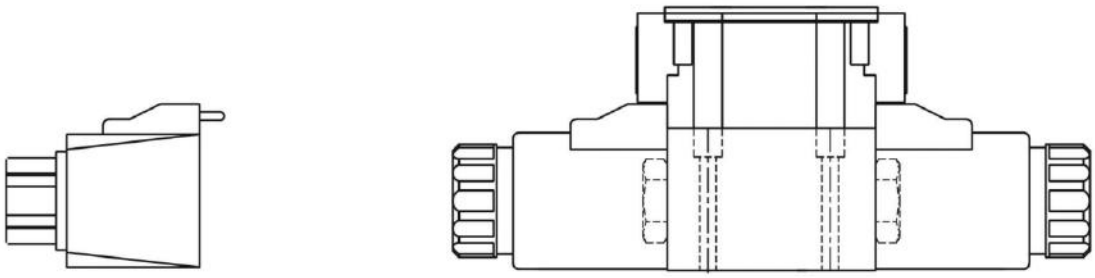
INSTALLATION DIMENSIONS

Nominal size 6



AC Plug-in Connection Type

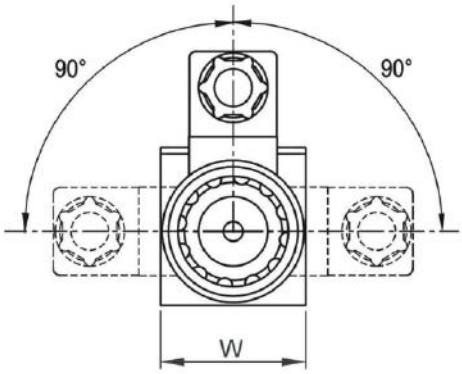
DC Plug-in Connection Type



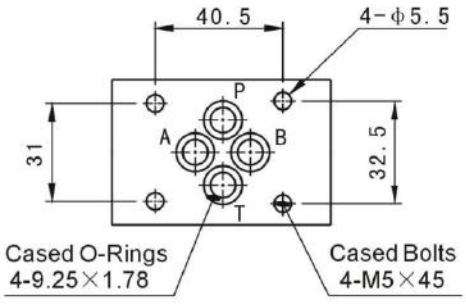
AC With Lamp Central Connection Type

DC With Lamp Central Connection Type

A Direction

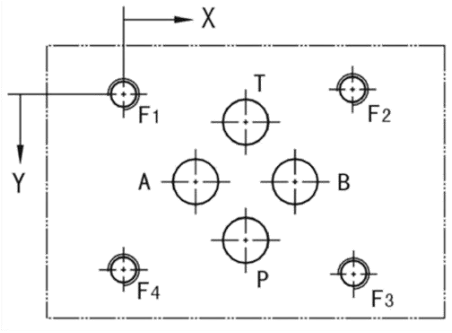


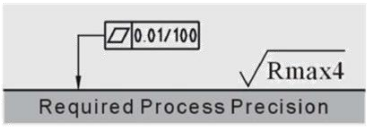
B Direction



Valve type	Total lenght		Total width (W)	Total high (H)	Take out coil (LX)
	LD	LS			
DC plug-in connection type	148	211	46	81	71
DC with lamp central connection type	148	211	46	85	71
AC plug-in connection type	141	197	46	81	64
AC with lamp central connection type	141	197	46	85	64

SUBPLATE INSTALLATION DIMENSIONS (PORTING PATTERN TO ISO 44010)





	4-M5 deep 10				4-ø7.6 max.			
X	0	40.5	40.5	0	12.7	21.5	30.2	21.5
Y	0	-0.75	31.75	31	15.5	5.1	15.5	25.9
Code	F1	F2	F3	F4	A	T	B	P

Note: The tolerance for each hole dimension is ±0.1.

10 | D | 1 | X | 8 | D | N |
A | B | C | D

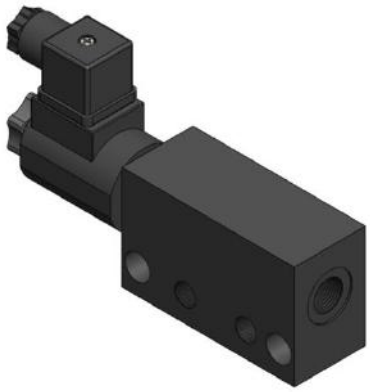
SANDWICH VALVE
(with cartridge solenoid valve)

A	CODE	D1
	TYPE	Block for double locking (normally closed) 2way poppet solenoid valve

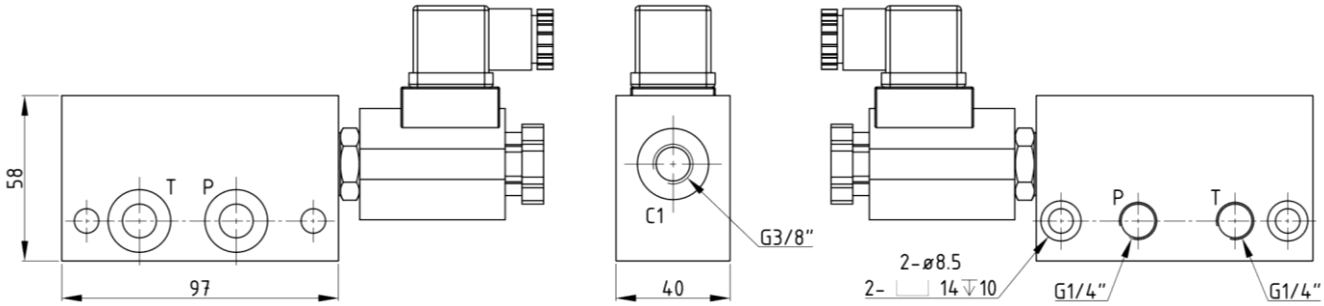
B	CODE	1	2	3	4
	VOLTAGE	DC 12V	DC 24V	AC 110V	AC 220V

C	CODE	Specification		
		Cavity	Thread	Diameter
	8	08-2	UNF 3/4"	Ø12.7

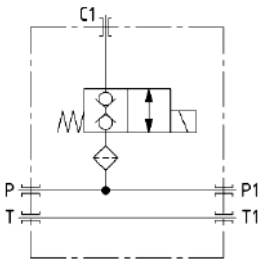
D	CODE	DN
	TYPE	DIN Connector



DIMENSION



DIAGRAM



11 | P | 1 | X | 8 | D | N |
A | B | C | D

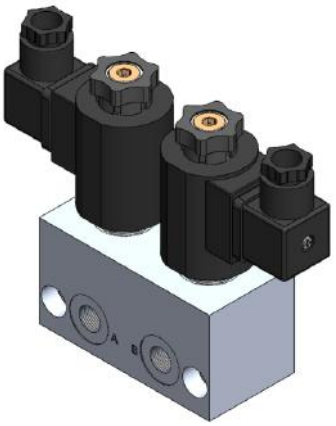
SANDWICH VALVE
(two single acting)

A	CODE	P1	
	TYPE	Sandwich valve P1	

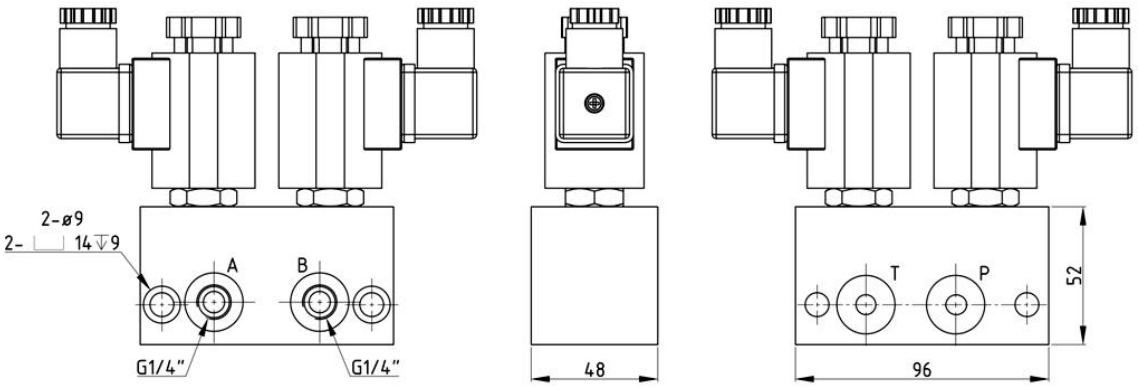
B	CODE	1	2
	VOLTAGE	DC 12V	DC 24V

C	CODE	Specification		
		Cavity	Thread	Diameter
	8	08-2	UNF 3/4"	Ø12.7

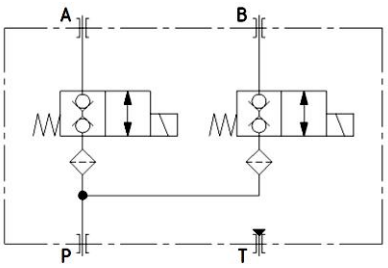
D	CODE	DN
	TYPE	DIN Connector



DIMENSION



DIAGRAM



12 H P 1 0

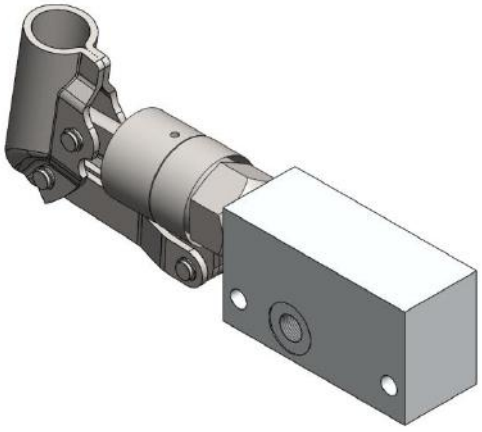
A B

HAND PUMP

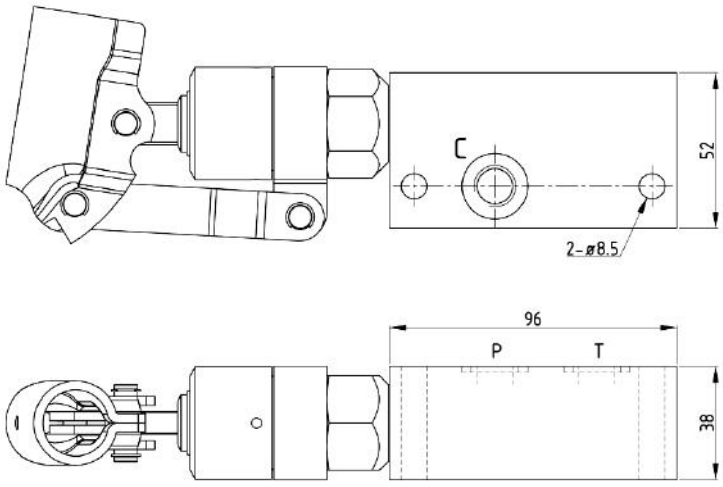
A	CODE	HP
	TYPE	Hand Pump

B	CODE	Specification			
		Cavity	Thread	Diameter	Capacity
	10	10-2	UNF 7/8"	Ø15.8	8.8cc

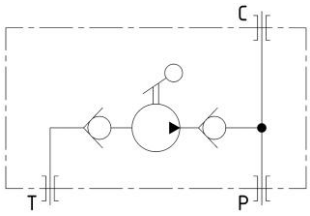
PORT SIZE	C	G1/4"



DIMENSION



DIAGRAM



13 | B | 4 | 0 | 0 |
A | B

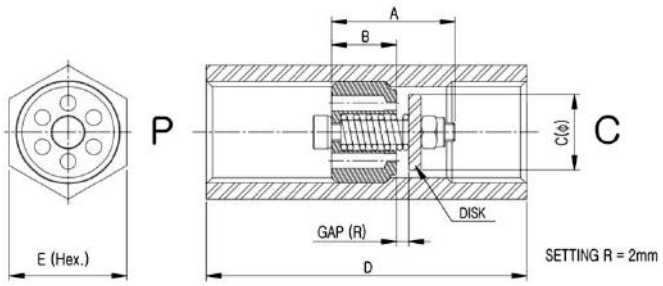
LINE TYPE BURST VALVE

A	CODE	B
	TYPE	Line type burst valve

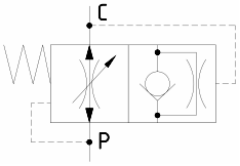
B	CODE		400	600	800
	WORKING PRESSURE (max) Kgf/cm²		350	350	350
	FLOW (lpm)	Min	4	6	16
		Max	25	50	80
	PORT SIZE	P	G1/4	G3/8	G1/2
		C	G1/4	G3/8	G1/2

DIMENSION

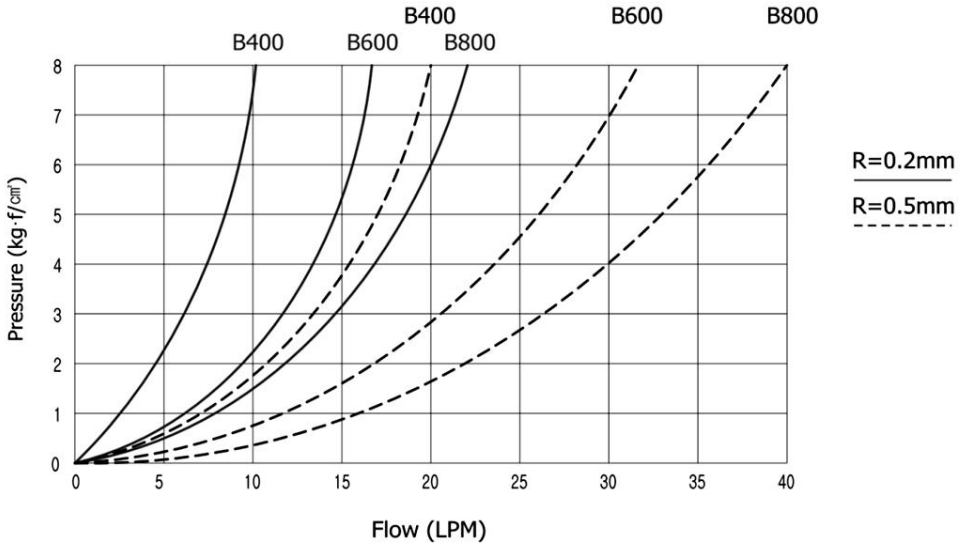
CODE	B400	B600	B800
A	13	16	17
B	8	11	11
C	ø11.6	ø14	ø18
D	56	58	60
E	3/4"	7/8"	1.1/4"



DIAGRAM



PERFORMANCE CURVE



14 F B F 1 4 0

A B

BURST VALVE

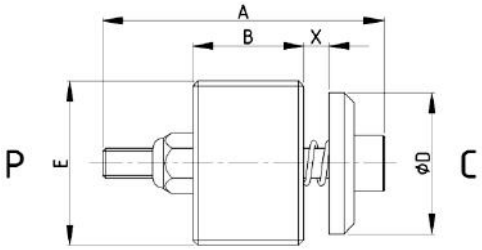
A	CODE	FBF
	TYPE	Burst valve

B	CODE		140	380	120
	FLOW max (lpm)	Max	25 (4~25)	50 (6~50)	80 (16~80)

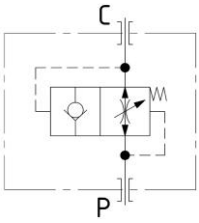
Max. pressure: 350bar

DIMENSION

CODE	FBF140	FBF380	FBF120
A	16	19	20
B	8	11	11
D	ø11.6	ø14	ø18
E	G1/4”	G3/8”	G1/2”

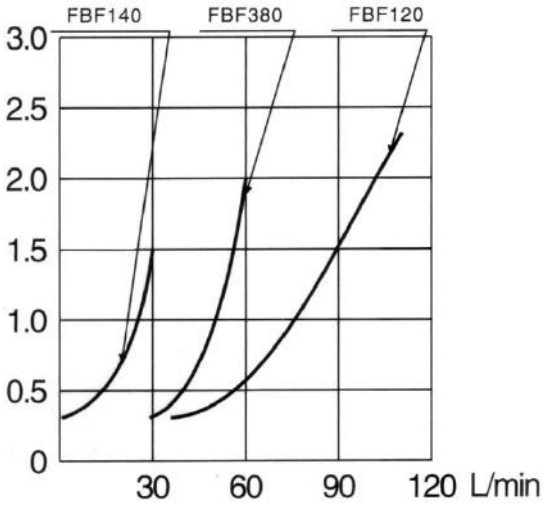


DIAGRAM



PERFORMANCE

X - C to P



15 F T 2 9 0 1 4 — GAUGE ISOLATOR NEEDLE VALVE

A B C

The FT isolator needle valves (in line) are normally used to protect the pressure gauge since they have the double function of dampening pressure surge during opening and of isolating the pressure gauge entirely. Pressed in high-resistance steel, protected by an accurate treatment, subjected to strict tests, they ensure reliability and long life.

A rotating swivel nut allows for accurate pressure gauge orientation. The sealing, standard supplied, and inserted in the nut, prevents any drawing between the connection and the gauge.

Suitable for pressure up to 400 bar and temperature from -20° to +100° they can be panel mounted by use of log nut (G), supplied on request.

A	CODE	FT
	TYPE	Gauge isolator needle valve

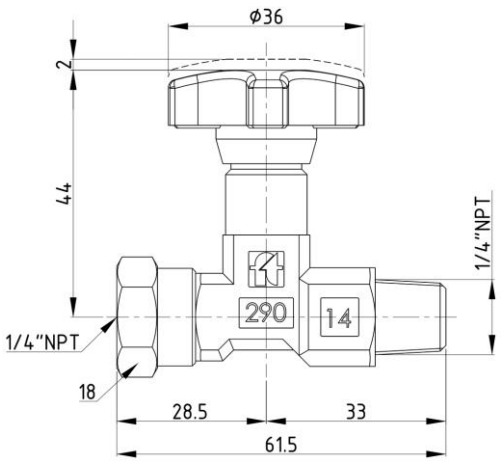
B	CODE	290	291
	TYPE	In line	90° angle

C	CODE	14
	TYPE	1/4"NPT

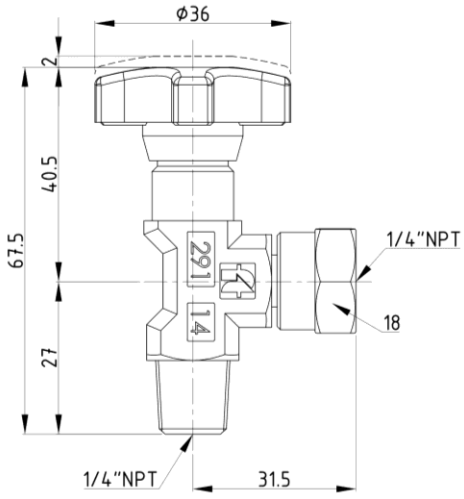
On request:

- Versions with connections female/female
- For rigid pipes
- For flexible pipes
- Seals in Viton
- Complete with lock nut

FT290-14



FT291-14



16 | M | V | 6 | 3 | G | 1 | 4 | N | 1 | 6 | 0 |
A | B | C | D | E | F

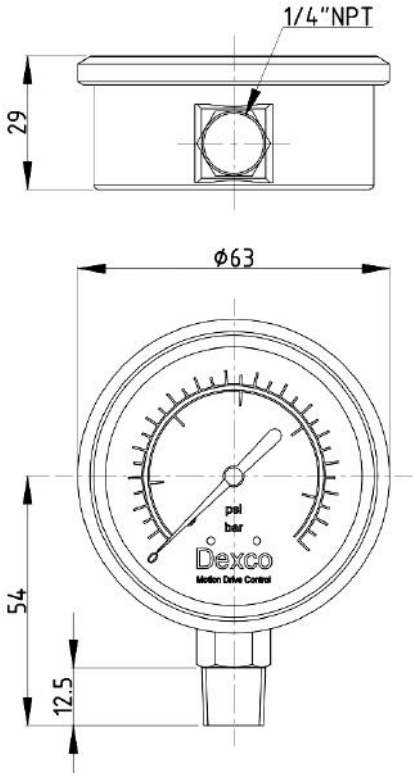
PRESSURE GAUGE

For measuring points with high dynamic pressure loads or vibrations.

For gaseous and liquid media that are not highly viscous or crystallizing and will not attack copper alloy parts.

A	CODE	M
	TYPE	Pressure gauge
B	CODE	V
	TYPE	Vertical
C	CODE	63
	TYPE	Ø63mm
D	CODE	G
	TYPE	Filling liquid: glycerine
E	CODE	14N
	TYPE	1/4" NPT

F	CODE	100	160	250	315	400
	TYPE	0-100 bar 0-1400 PSI	0-160 bar 0-2300 PSI	0-250 bar 0-3500 PSI	0-315 bar 0-4500 PSI	0-400 bar 0-6000 PSI



17 V N 1 2 7 T

A B C

OIL GAUGE

Used for checking fluid levels in large tanks.

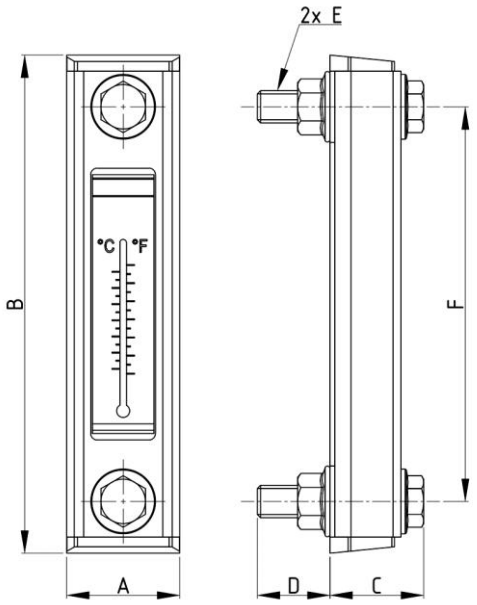
Complete with seals, thermometer, screws and anchor nuts.

Avoid contacts with alcohol and toluol.

A	CODE	VN
	TYPE	Oil gauge

B	CODE	76	127
	TYPE	Mounting F: 76mm	Mounting F: 127mm

C	CODE	T
	TYPE	With thermometer

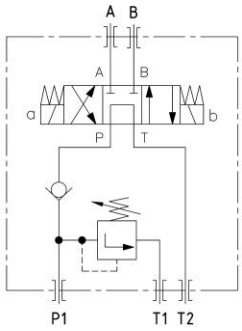


CODE	A	B	C	D	E	F
VN-76-T	35	109	30	20	M10	76
VN-127-T	35	159	30	20	M10	127

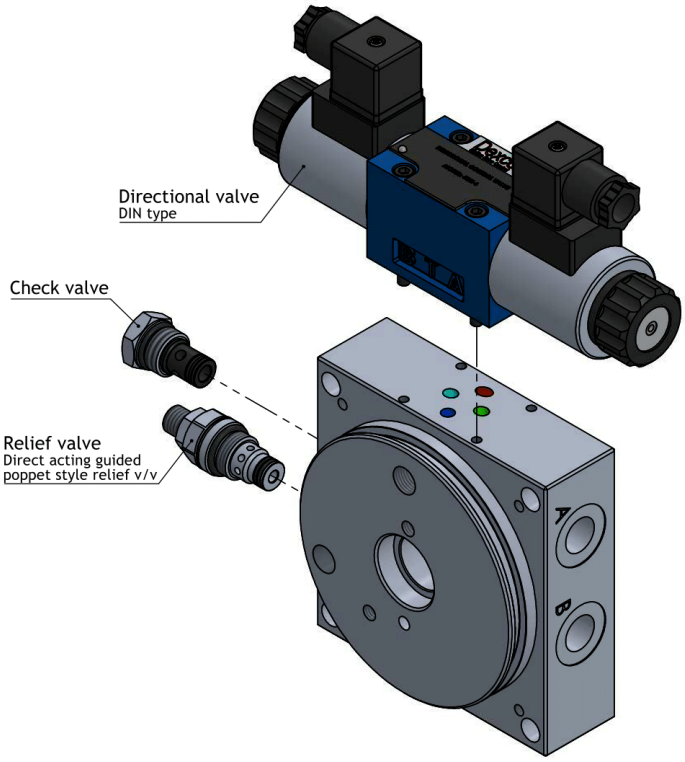
18	D	L	K	0	5	G	3	8	T	N	6	G	2	4	V	D	C
	A			B		C			D			E	F				

SPECIAL CENTER BLOCK

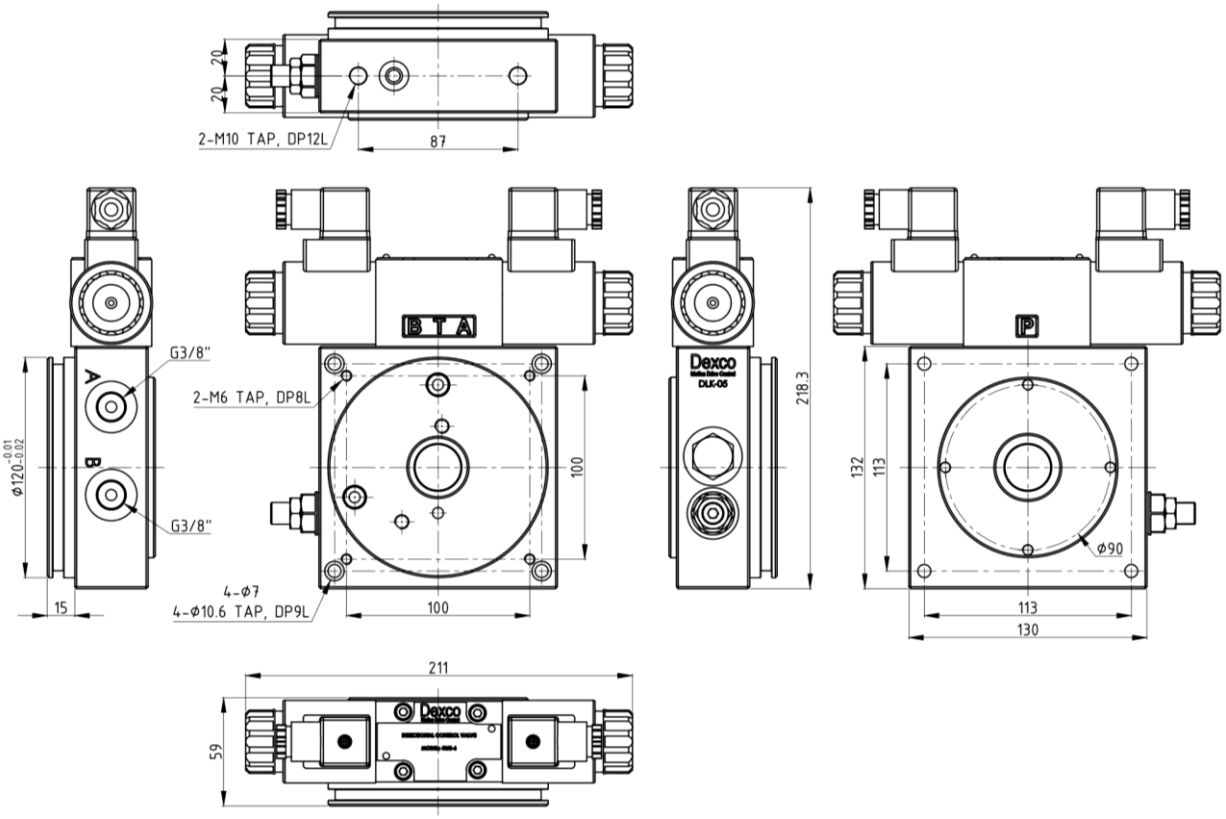
A	CODE	DLK			
	MODEL	Special center block model DLK			
B	CODE	05			
	DIAGRAM	Center block diagram			
C	CODE	G38			
	PORTS	A: G3/8” / B: G3/8”			
D	CODE	TN6			
	TYPE	Solenoid operated directional valve size 6			
E	CODE	G			
	TYPE	symbol (see page 53)			
F	CODE	12VDC	24VDC	110VAC	220VAC
	VOLTAGE	12 VDC	24 VDC	110 VAC	220 VAC



Made of aluminum material
Pressure adjustable relief valve
Applicable pump displacement:
0.2 cc/rev ~ 9.8 cc/rev
O’ring: 2-346
Check valve: 3/4"-16 UNF (8-2 cavity)
Relief valve: 3/4"-16 UNF (9-2 cavity)
A: 3/8” BSP
B: 3/8” BSP
T1, T2: 1/4" BSP



DIMENSION

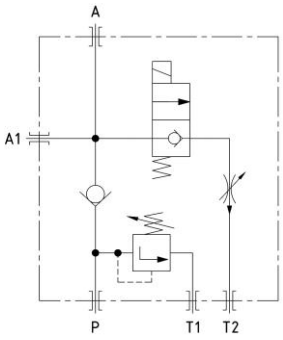


18	D	L	K	0	3	G	3	8	0	8	2	4	V	D	C
	A			B		C			D		E				

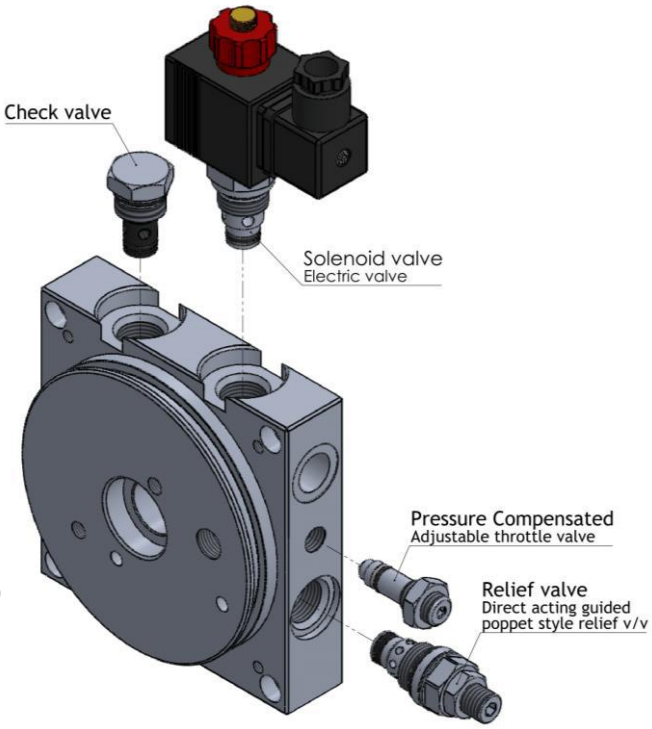
SPECIAL CENTER BLOCK

A	CODE	DLK
	MODEL	Special center block model DLK
B	CODE	03
	DIAGRAM	Center block diagram
C	CODE	G38
	PORTS	A: G3/8” / A1: G3/8”
D	CODE	08
	TYPE	Pressure compensated adjustable throttle valve

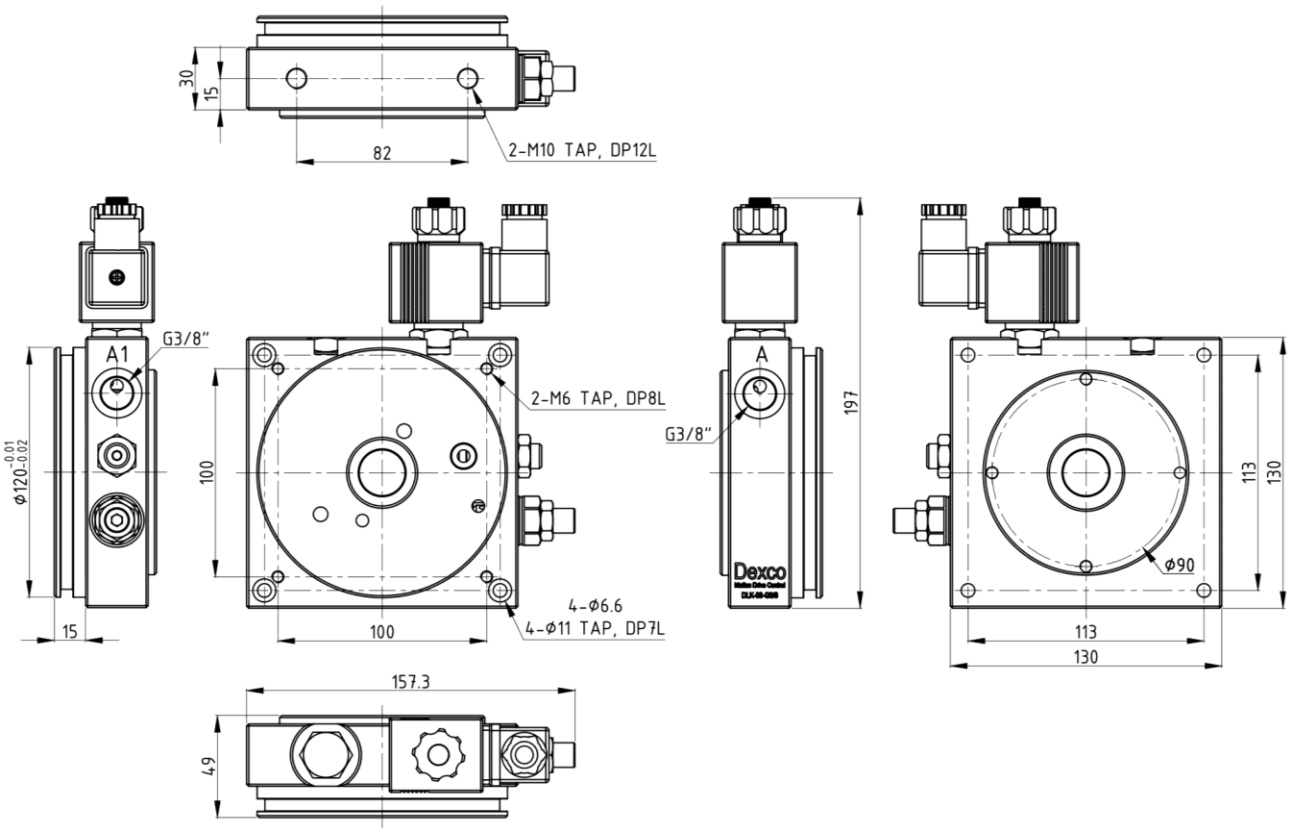
E	CODE	12VDC	24VDC	110VAC	220VAC
	VOLTAGE	12 VDC	24 VDC	110 VAC	220 VAC



Made of aluminum material
Pressure adjustable relief valve
Applicable pump displacement:
0.2 cc/rev ~ 9.8 cc/rev
O’ring: 2-346
Orifice: M12x1
Check valve: 3/4"-16 UNF (8-2 cavity)
Relief valve: 3/4"-16 UNF (9-2 cavity)
Solenoid valve: 3/4"-16 UNF (8-2 cavity)
A: 3/8” BSP
A1: 3/8” BSP
T1, T2: 1/4" BSP



DIMENSION



19 | F | S | 4 | 5 | W | F | 8 | B |
A | B | C | D

SUCTION FILTER

This suction filter, is made by wire mesh notched, and they are firsts responsible to prevent the particles larges than 90 microns damaged the pumps. These filters must be installed at the inlet of the pump inside the reservoir.

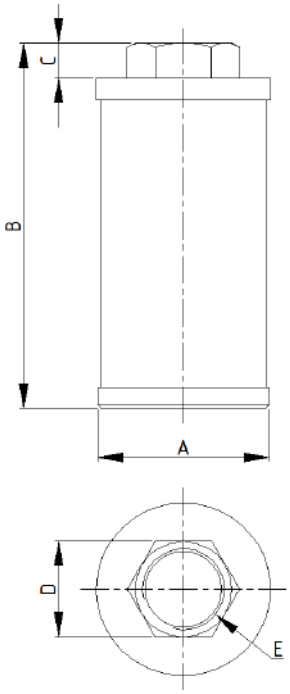
A	CODE	FS
	TYPE	Suction filter

B	CODE	12	20	45	80	110	160	200	500
	TYPE	12lpm	20lpm	45lpm	80lpm	110lpm	160lpm	200lpm	500lpm

C	CODE	WF
	TYPE	Wire mesh filter

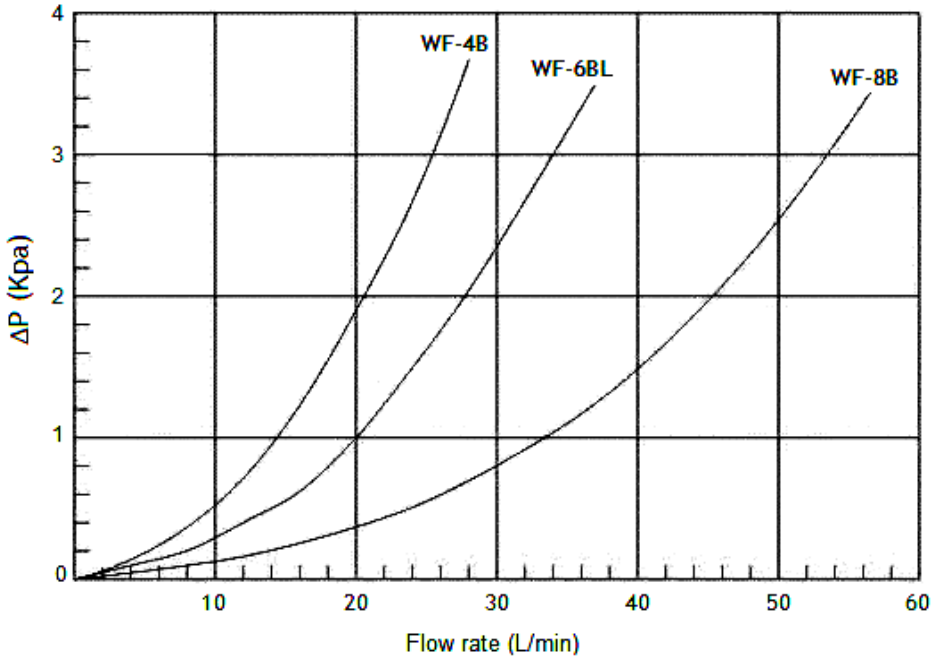
D	CODE	4B	6BL	8B	10C	10CL	16C	16D	24DL
	TYPE	Dimensions (see next table)							

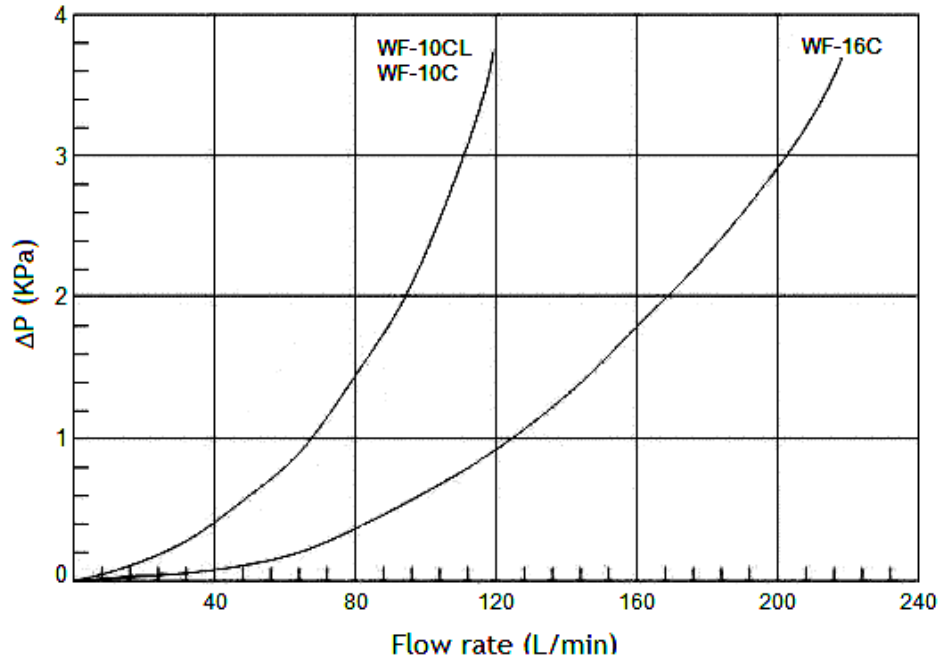
CODE	A	B	C	D	E
FS12-WF4B	Ø70	97	10	41	G1/2”
FS20-WF6BL	Ø70	148	10	41	G3/4”
FS45-WF8B	Ø70	147	10	41	G1”
FS80-WF10C	Ø105	140	15	69	G1.1/4”
FS110-WF10CL	Ø105	230	15	69	G1.1/4”
FS160-WF16C	Ø105	230	15	69	G2”
FS200-WF16D	Ø130	173	20	69	G2”
FS500-WF24DL	Ø130	330	20	100	G3”

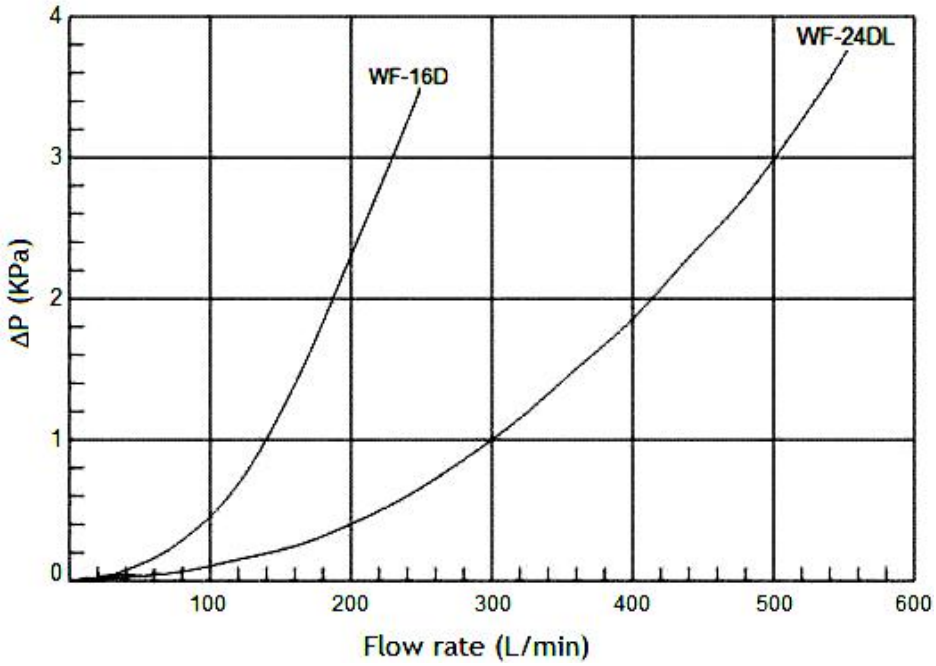


ΔP-Q CURVES

Viscosity 30CST





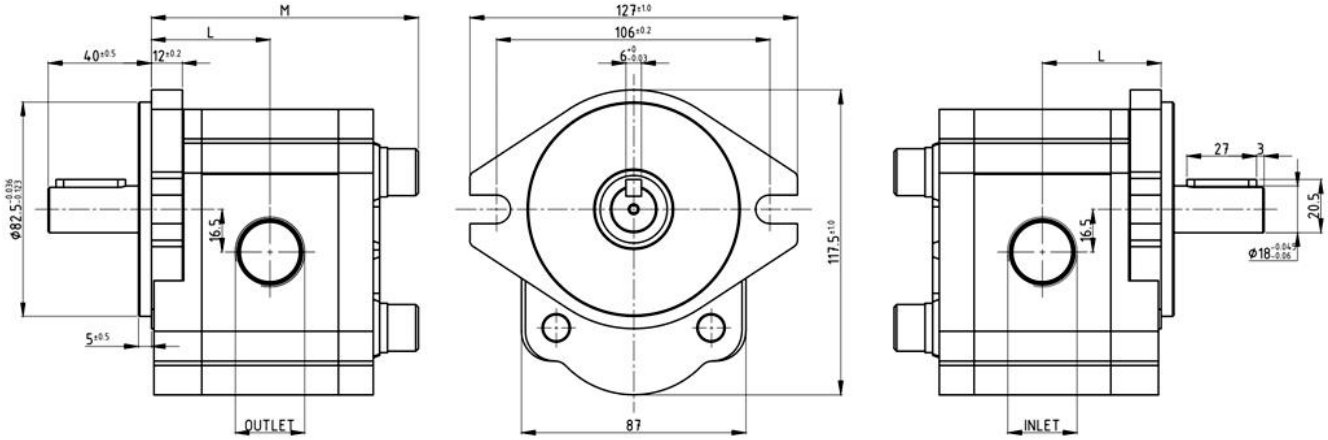

WF-16D
WF-24DL
ΔP (KPa)
0
1
2
3
4
100
200
300
400
500
600
Flow rate (L/min)

20 | H | Y | Z | 2 | S | G | 2 | 2 | 5 | B | 0 | 1 |

CODE

GEAR PUMP

CODE	Disp. (cc/rev)	Rated Pressure (Bar)	Max Pressure (Bar)	Speed (rpm)	M (mm)	L (mm)	INLET	OUTLET
HY-Z 2S/G 204B 01	04	270	300	4000	92.7	44.4	1"NPT	3/4"NPT
HY-Z 2S/G 206B 01	06				103.5	46.0	3/4"NPT	
HY-Z 2S/G 208B 01	08			3500	106.5	47.7		
HY-Z 2S/G 210B 01	10			3000	102.6	49.3		
HY-Z 2S/G 212B 01	12				105.9	51.0	1"NPT	
HY-Z 2S/G 214B 01	14	250	280	4000	109.3	52.7	3/4"NPT	
HY-Z 2S/G 216B 01	16				112.7	54.4		
HY-Z 2S/G 218B 01	18			3600	122.5	56.0		
HY-Z 2S/G 222B 01	22	220	250	3000	128.0	59.3		
HY-Z 2S/G 225B 01	25	200	230		132.5	62.0	1.1/4"NPT	1"NPT
HY-Z 2S/G 230B 01	30	180	200	2500	141.5	66.0		



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