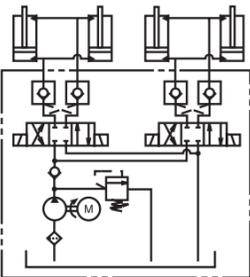
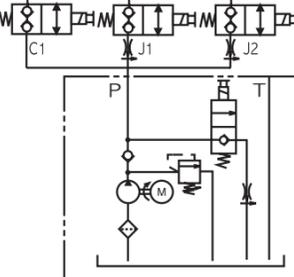
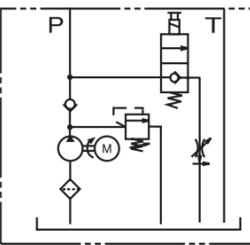
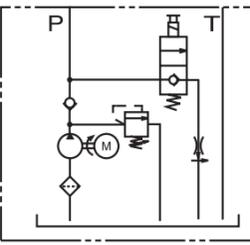
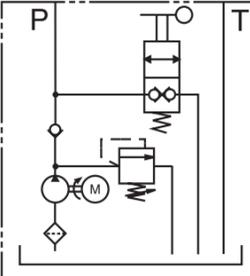
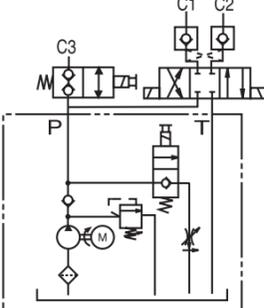
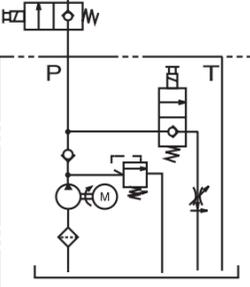
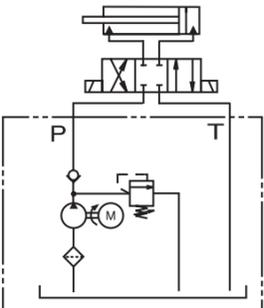
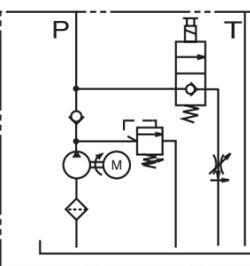
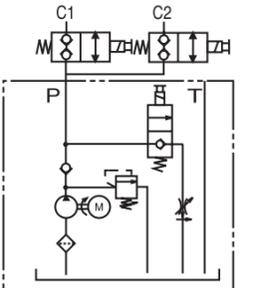
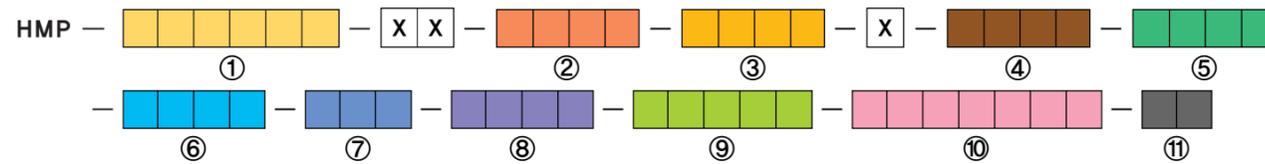


TYPICAL APPLICATION

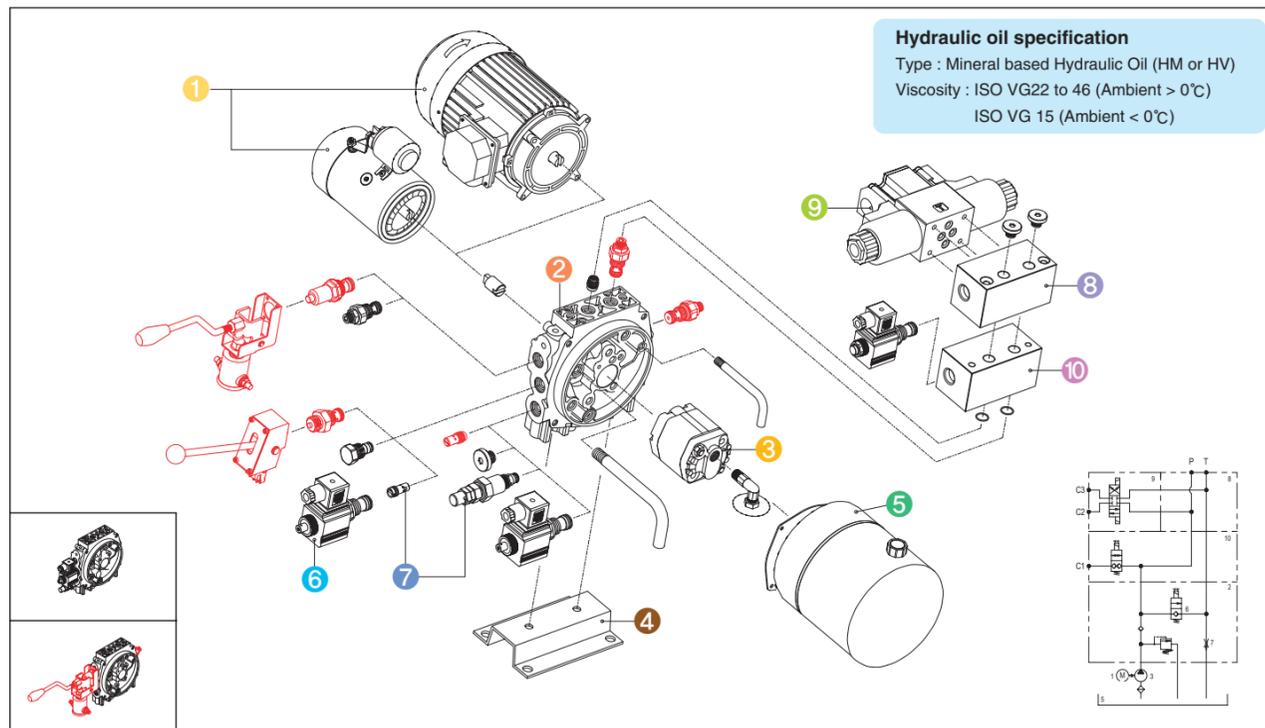
DC PACKS	AC PACKS
Wing body  	4 Post lift  
Tail lift  	Scissor lift  
Stacker  	Dock leveler  
Man lift  	Can press  
Tipper  	Conveyor  

CODING SYSTEM



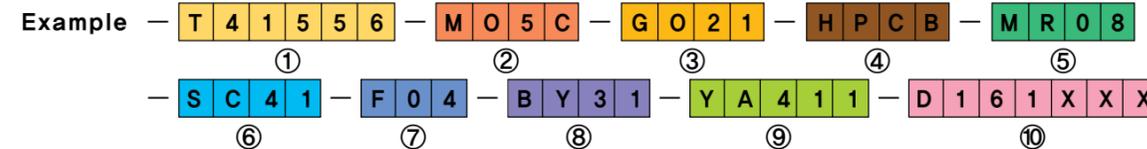
CODING INDEX

① Motor	P.3	⑩ Modular block with cartridge solenoid valve	P.16
② Center block	P.5	⑪ Box type power pack	P.18
③ Pump	P.8	⑫ Pump motor unit	P.19
④ Mounting & Dimension	P.9	⑬ Block for PMU	P.20
⑤ Tank	P.10	⑭ Others	P.21
⑥ Built-in valve	P.13	⑮ Accessories	P.23
⑦ Setting compensated throttle valve	P.14	⑯ Special application for dock leveler power pack	P.24
⑧ Modular block	P.15	⑰ Special application for wheel chair power pack	P.25
⑨ Directional valve series	P.16	⑱ DC Motor characteristic curves	P.26



Order coding sample

Description : ① Motor : 3phase 4pole 1.5Kw 50/60Hz
 ② Center block : MO-center block, Diagram NO.5-type, Relief valve 180bar
 ③ Pump : Gear pump group 1, 2.1cc/rev
 ④ Mounting : Horizontal, air breather orientation is to P,T and terminal box orientation is to cartridge, With bracket.
 ⑤ Tank : Round type 8 liter
 ⑥ Built-in : Normally closed, AC220V, CETOP 3
 ⑦ Orifice : 4 l /min
 ⑧ ⑨ ⑩ Diagram : One single acting and one double acting cylinder



Note
 1. Double locking () and Normally open () valves for AC application use RAC solenoid.
 2. In coding system, X is for Hydro-Tek or design code.
 3. All detail information of products can be changed without any notice for development products quality.
 4. Please contact Hydro-Tek for special specification.

1

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X	X
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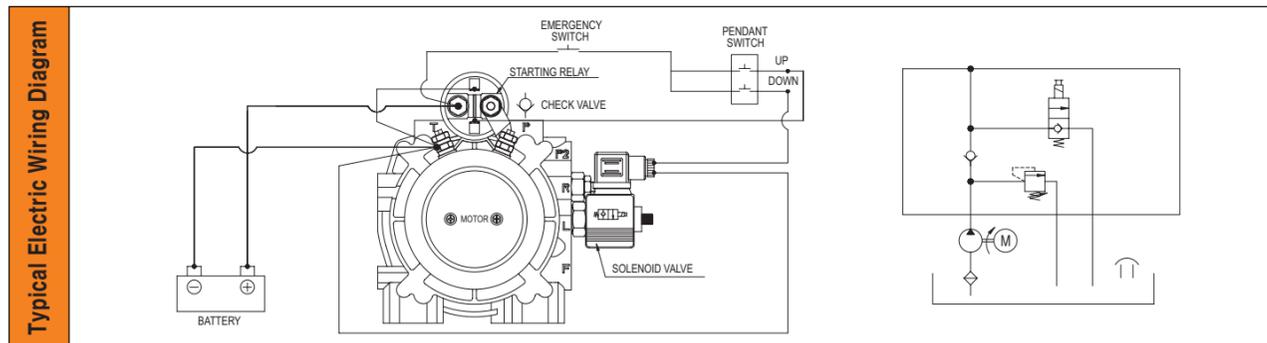
 X is only for maker's use
A / B / C / D Maker

DC - MOTOR

A	Code	XXXXXX	D	L
	Type	Without motor	Direct current motors without ventilation	Long late direct current motors with ventilation
B	Code	1 or (A)	2 or (B)	4
	Voltage	12V	24V	48V

Direct current motors without ventilation D							Dimension		
Code	Volt (V)	Watt (W)	Operation		IP	Applicable center block	105-205,108-208	A05-B05,A08-B08	
			S2	S3					
1 05	12	500	1.8 min	7%ED	54	SH			
2 05	24	500	1.8 min	7%ED	54				
1 08	12	800	1.8 min	7%ED	54				
2 08	24	800	1.8 min	7%ED	54				
A 05	12	500	5 min	17%ED	54	M, X, QH, QD			
B 05	24	500	5 min	17%ED	54				
A 08	12	800	4 min	10%ED	65				
B 08	24	800	4 min	10%ED	65				
1 12	12	1,200	2 min	7.5%ED	54				
2 12	24	1,200	2 min	7.5%ED	54				
1 16	12	1,600	2 min	7.5%ED	54				
2 22	24	2,200	1.2 min	4.5%ED	54				
4 20	48	2,000	3 min	12%ED	54				
1 24	12	2,400	1 min	8%ED	54				
2 30	24	3,000	4 min	15%ED	54				
Long late direct current motors with ventilation L							M, X, QH, QD		
1 16	12	1,600	20 min	40%ED	20				
2 22	24	2,200	20 min	40%ED	20				
2 30	24	3,000	20 min	40%ED	20				

START RELAY			
Code	Volt (V)	Ampere (A)	Dimension
I1	12	150	
I2	24		
H1	12	200	
H2	24		
XX	Without start relay		



1

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X	X
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 Design code
A / B / C / D

AC - MOTOR

A	Code	XXXXXX	H	S	T	F
	Voltage	X	110V	220V	230/400V	254/440V
B	Code	2	4	6		
	Pole	2 Pole	4 Pole	6 Pole		

AC Motor by Hydro-tek design HD								Dimension	
Code	pole	Watt	Fr	Kw	IP	A	B	C	4pole 60Hz 1700 RPM 4pole 50Hz 1500 RPM
4 03	71	0.37	54	220	138	109			
4 07	80	0.75	54	238	157	112			
4 10	90	1.0	54	285	175	120			
4 15		1.5	54	285	175	120			
4 18		1.8	54	285	175	120			
4 22	2.2	54	285	175	120				
4 40	112	4.0	54	335	220	156			

AC Motor by Hydro-tek compact design CD								Dimension	
Code	pole	Watt	Fr	Kw	IP	A	B	C	
									4 01
4 03	71	0.40	54	129	114	92			
4 07	71	0.75	54	159	114	92			
4 10	71	1.00	54	189	114	92			

AC Motor by Hydro-tek submerged design WS								Dimension	
Code	pole	Watt	Fr	Kw	IP	A	B	C	
									4 05
4 07	71	0.75	54	166	133				
4 11	71	1.10	54	181	133				
4 15	71	1.50	54	201	133				
4 22	71	2.20	54	236	133				

D	Code	50	60	56	Note	1. 3-phase motor is double frequency type (50/60Hz) 2. 1-phase motor is single frequency type (50Hz or 60Hz)
	Frequency (Hz)	50	60	50/60		

Note 1. 4kW is international standard.(B14) 2. Please contact Hydro-Tek for 2pole, 6pole motors and over 4kW. 3. Please contact Hydro-Tek for further detail information. 4. Please select one AC Motor design between HD, CD and ID, and fill up the design code blank.

AC Motor by International design ID					
Code	Frame	Dimension			
		A(mm)	B(mm)	C(mm)	
F080	80	100	90	59.2	
F090	90	115	90	59.2	
F112	112	130	120	67.2	
C080	80	19	32	30	
C090	90	24	40	40	
C112	112	28	44	48	

Note 1. This flange and coupling can be assembled all B14 motors with Hydro-Tek center block. 2. You can purchase B14 motors in your area.

2 A / B / C

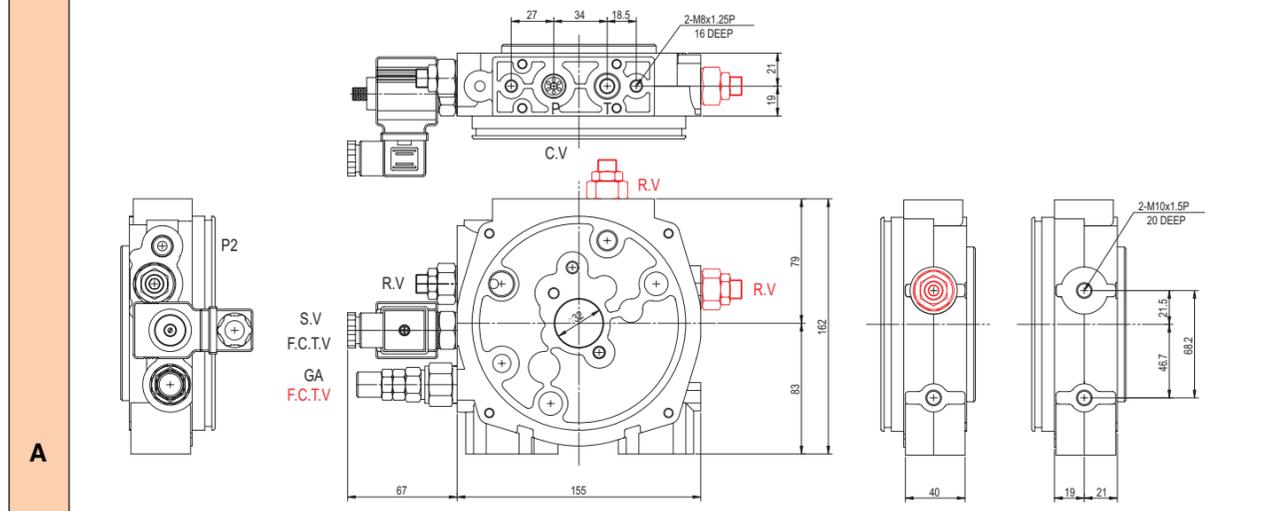
CENTER BLOCK

Center block Diagram					
Code	1	3	5	7	9
Diagram					
Applicable Center block	M, X series & QH, SH	M, X series & QH, SH	M, X series & QH, SH	M, X series & SH, QH	M, X series & QH
Code	2	4	6	8	0
Diagram					
Applicable Center block	M, X series & QH, SH	M, X series & QH, SH	M, X series & QH, SH	M, X series & SH, QH	M, X series & QH

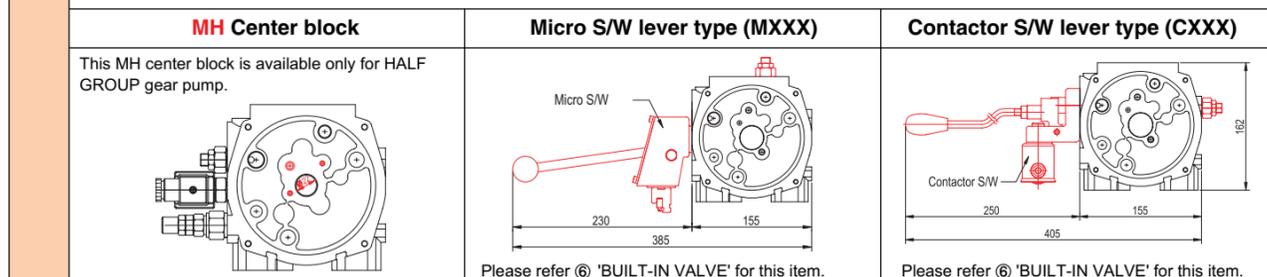
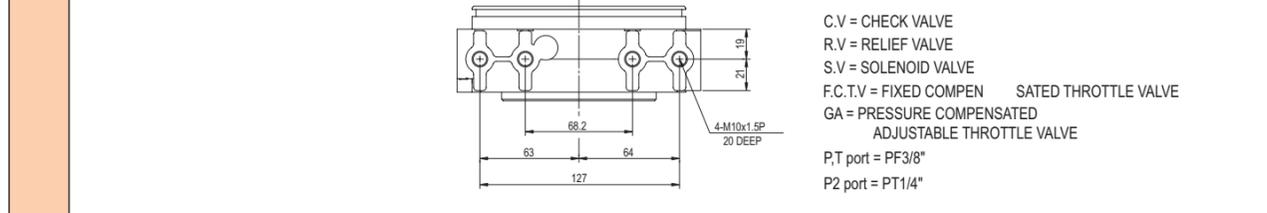
M Series center block

MO Center block

This MO center block is available only for ONE GROUP Gear pump



C.V = CHECK VALVE
 R.V = RELIEF VALVE
 S.V = SOLENOID VALVE
 F.C.T.V = FIXED COMPEN SATED THROTTLE VALVE
 GA = PRESSURE COMPENSATED ADJUSTABLE THROTTLE VALVE
 P,T port = PF3/8"
 P2 port = PT1/4"

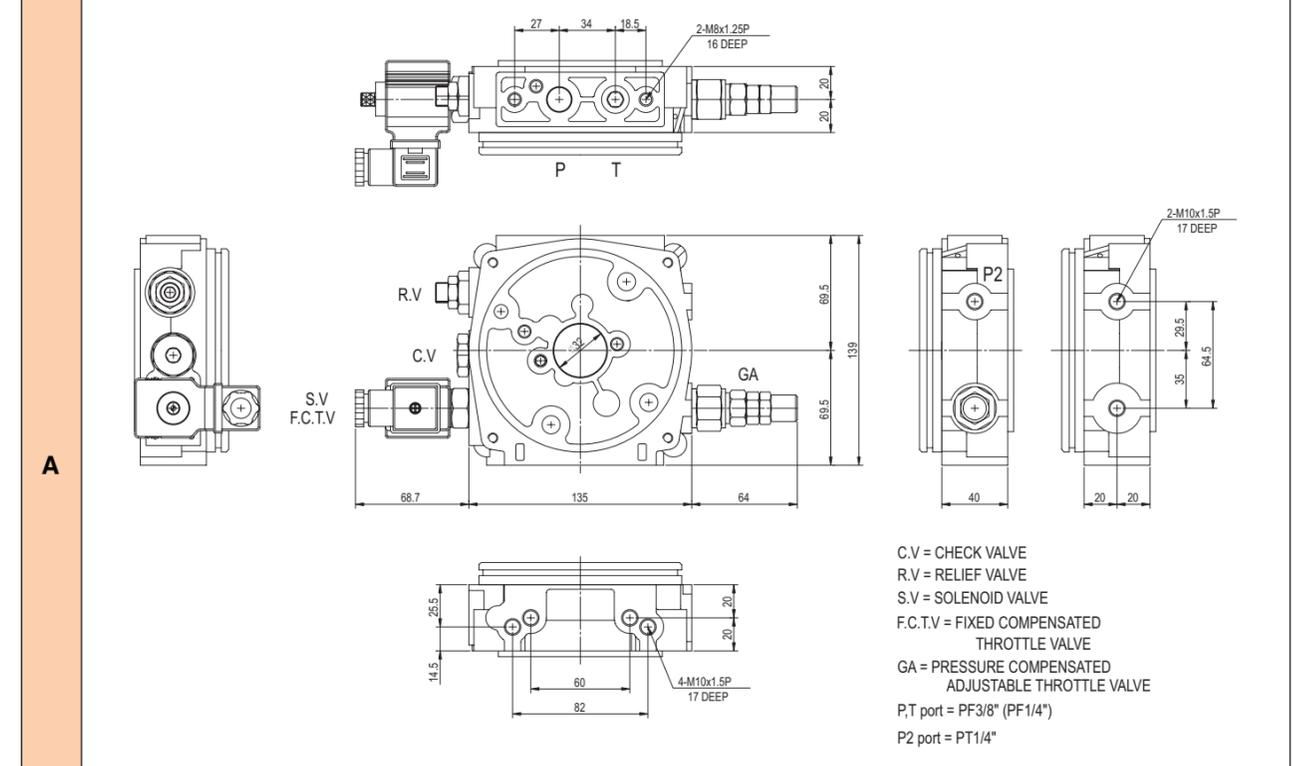


Please refer ⑥ 'BUILT-IN VALVE' for this item.

X Series center block

XO Center block

This XO center block is available only for ONE GROUP Gear pump



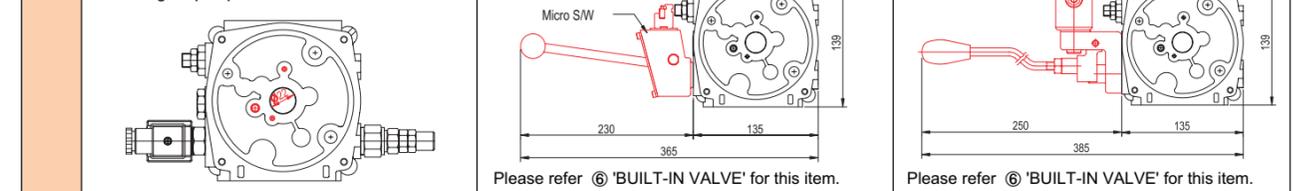
C.V = CHECK VALVE
 R.V = RELIEF VALVE
 S.V = SOLENOID VALVE
 F.C.T.V = FIXED COMPENSATED THROTTLE VALVE
 GA = PRESSURE COMPENSATED ADJUSTABLE THROTTLE VALVE
 P,T port = PF3/8" (PF1/4")
 P2 port = PT1/4"

XH Center block

Micro S/W lever type (MXXX)

Contactor S/W lever type (CXXX)

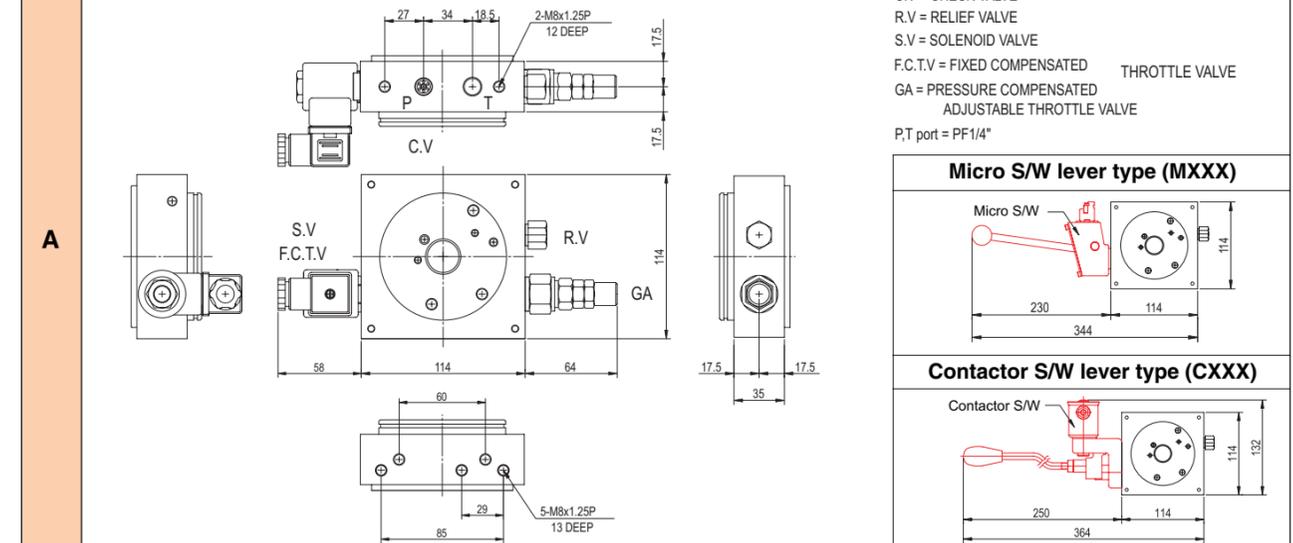
This XH center block is available only for HALF GROUP gear pump.



Please refer ⑥ 'BUILT-IN VALVE' for this item.

QH center block

This QH center block is available only for HALF GROUP Gear pump

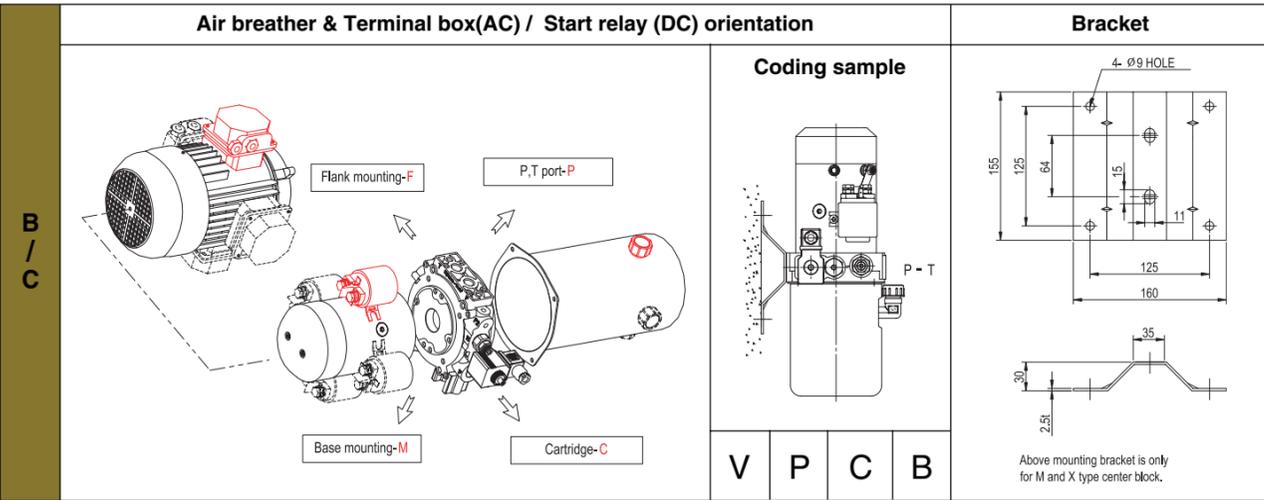


C.V = CHECK VALVE
 R.V = RELIEF VALVE
 S.V = SOLENOID VALVE
 F.C.T.V = FIXED COMPENSATED THROTTLE VALVE
 GA = PRESSURE COMPENSATED ADJUSTABLE THROTTLE VALVE
 P,T port = PF1/4"

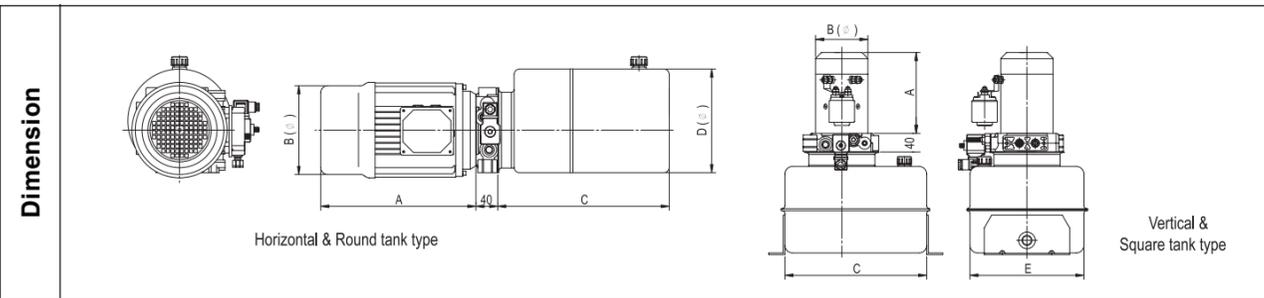
Please refer ⑥ 'BUILT-IN VALVE' for this item.

Mounting

A	Code	V			H		
	Motor mounting	Vertical			Horizontal		
B	Code	P	C	M	F	S	
	Air breather Orientation	P,T port Orientation	Cartridge Orientation	Base mounting Orientation	Flank mounting Orientation	Special mounting Orientation	
C	Code	P	C	M	F	S	
	Terminal box (AC) /Start relay (DC) Orientation	P,T port Orientation	Cartridge Orientation	Base mounting Orientation	Flank mounting Orientation	Special mounting Orientation	
D	Code	B			X		
	Bracket	With bracket			Without bracket		

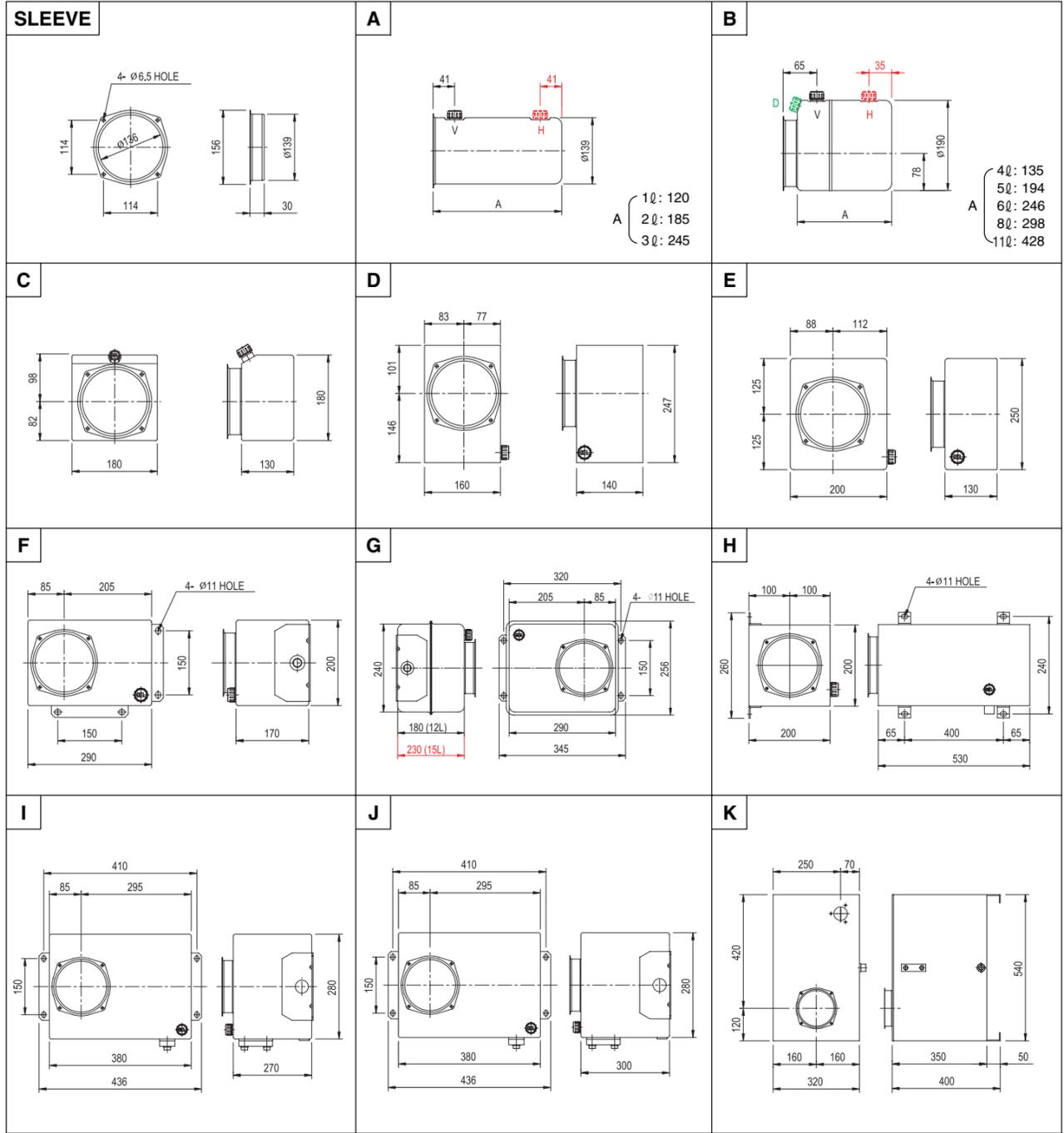


Power pack dimension									
Motor				Tank (M-series)					
AC	Frame (AC) / Voltage (DC)	Watt(Kw) / Code(DC)	A	B	Code	Working cap. (L)	C	D	
	AC	63Frame	0.18	195	122	MR02	2	175	139
70Frame		0.37	220	138	MR05	5	224	190	
80Frame		0.75	238	157	MR08	8	328	190	
90Frame		1.0 / 1.5 / 1.8 / 2.2	285	175	MR11	11	450	190	
DC	12V / 24V	D105 / D205, D108 / D208	151	80	MS06	6	140	247	160
	12V / 24V	D112 / D212	140	115	MS09	9	200	200	290
	12V / 24V	D116 / D222	173	112	MS12	12	240	240	306
	12V / 24V	D124 / D230, L116 / L222	227	129	MS25	25	270	280	380
	24V	L230	299	127	MS50	50	430	540	320



Tank for M series center block

A	Code	MR										MS										MSLE	XXXX
	Type	M - Series & Round type oil tank										M - Series & Square type oil tank											
B	Code	01	02	03	04	05	06	08	11	04	06	07	09	12	15	20	25	30	50	Only sleeve	Without oil tank		
	Cap. (L)	1	2	3	4	5	6	8	11	4	6	7	9	12	15	20	25	30	50				
	Working cap. (L)	1	1.6	2.2	3	4	5	6	9.5	3	4.5	4.8	7.6	11.7	13	16	22.5	26	48				
	Type	A	A	A	B	B	B	B	B	C	D	E	F	G	G	H	I	J	K				

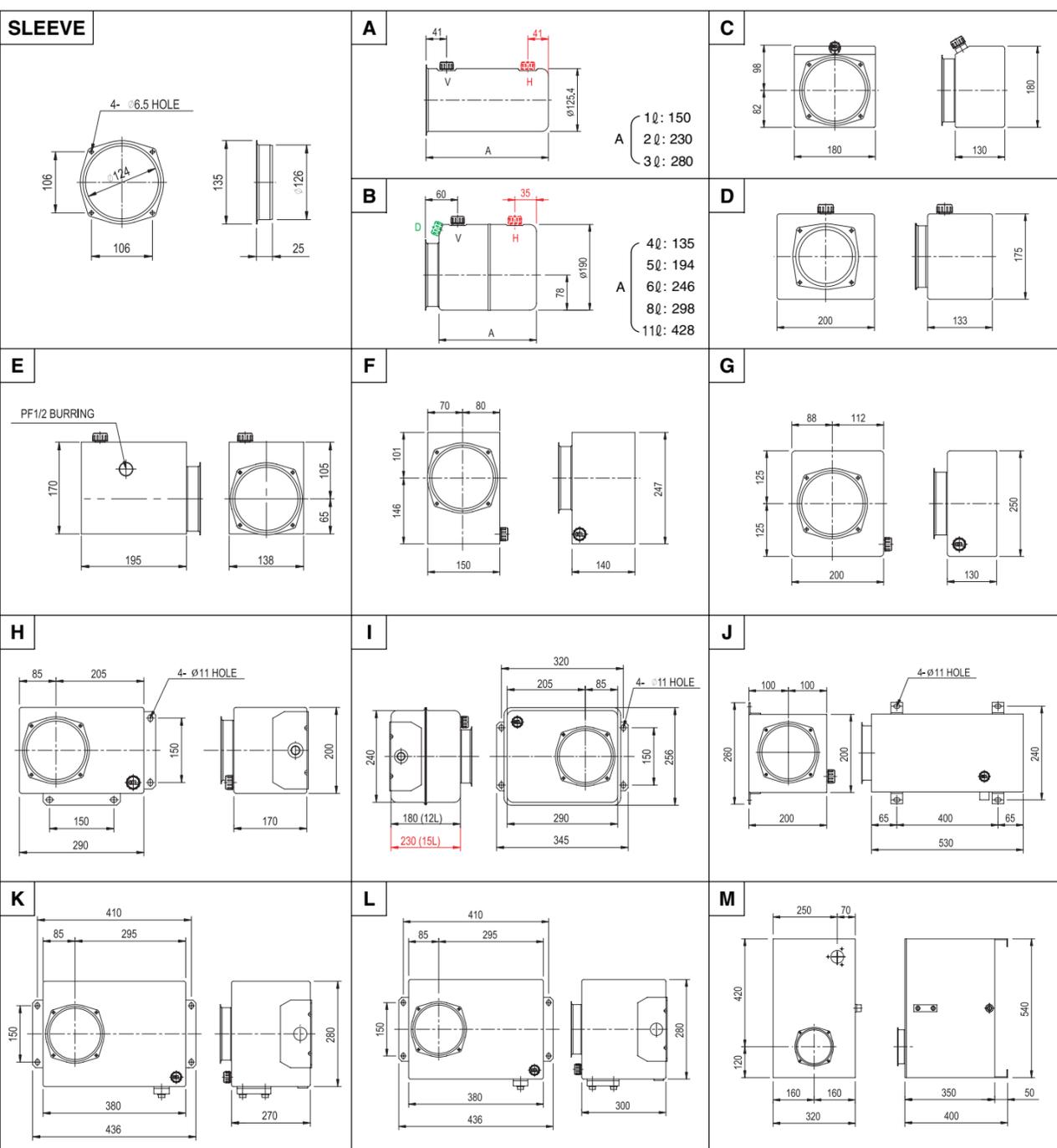


Note

1. Please contact Hydro-Tek for your special specification and customizing.
2. Please inform us the position(D,V or H) of air breather, when you select A or B type oil tank.

5 Tank for X series center block

A	Code	XR										XS										XSLE	XXXX
	Type	X - Series & Round type oil tank										X - Series & Square type oil tank											
B	Code	01	02	03	05	06	08	11	04	05	05	06	07	09	12	15	20	25	30	50	Only sleeve	Without oil tank	
	Cap. (ℓ)	1	2	3	5	6	8	11	4	5	5	6	7	9	12	15	20	25	30	50			
	Working cap. (ℓ)	1.2	1.7	2.3	4	5	6.6	9.6	3	4.3	4.3	4.5	4.8	7.6	11.7	13	16	22.5	26	48			
	Type	A	A	A	B	B	B	B	C	D	E	F	G	H	I	I	J	K	L	M			

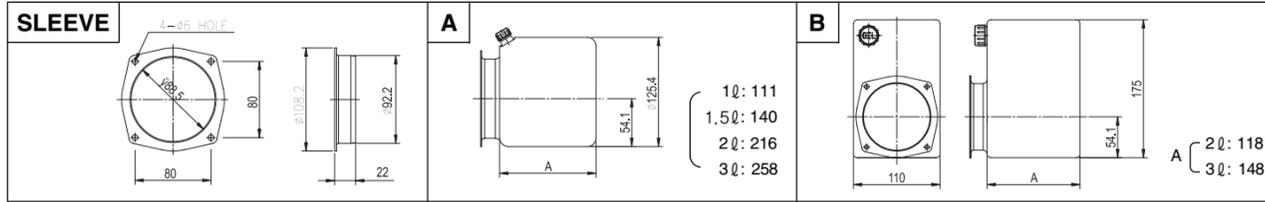


Note

1. Please contact Hydro-Tek for your special specification and customizing.
2. Please inform us the position(D,V or H) of air breather, when you select A or B type oil tank.

5 Tank for Q series center block

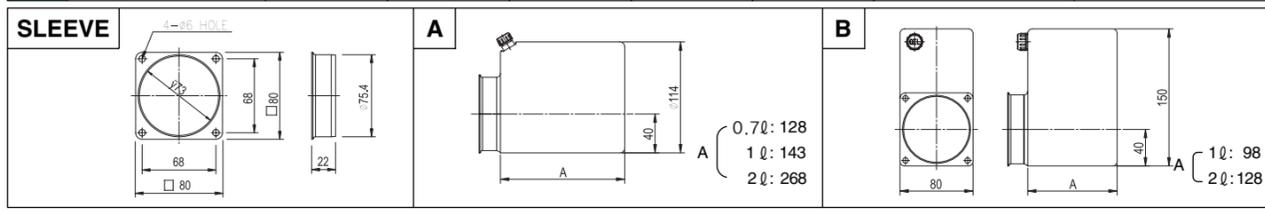
A	Code	QR				QS		QSLE	XXXX
	Type	Q - Series & Round type oil tank				Q - Series & Square type oil tank			
B	Code	10	15	20	30	20	30	Only sleeve	Without oil tank
	Cap. (ℓ)	1	1.5	2	3	2	3		
	Working cap. (ℓ)	0.7	1.2	1.7	2.3	1.4	2.4		
	Type	A	A	A	A	B	B		



Note Please contact Hydro-Tek for your special specification and customizing.

5 Tank for S series center block

A	Code	SR			SS		SSLE	XXXX
	Type	S - Series & Round type oil tank			S - Series & Square type oil tank			
B	Code	07	10	20	10	20	Only sleeve	Without oil tank
	Cap. (ℓ)	1.2	1.4	2.5	1	2		
	Working cap. (ℓ)	0.7	1	2	0.75	1.3		
	Type	A	A	A	B	B		



Note Please contact Hydro-Tek for your special specification and customizing.

Air breather

A	Code	Air breather AB	
B	Code	0	1
B	Type	Without stick	With stick
C	Code	4	5
C	Port	PF 3/8"	PF 1/2"

Suction filter

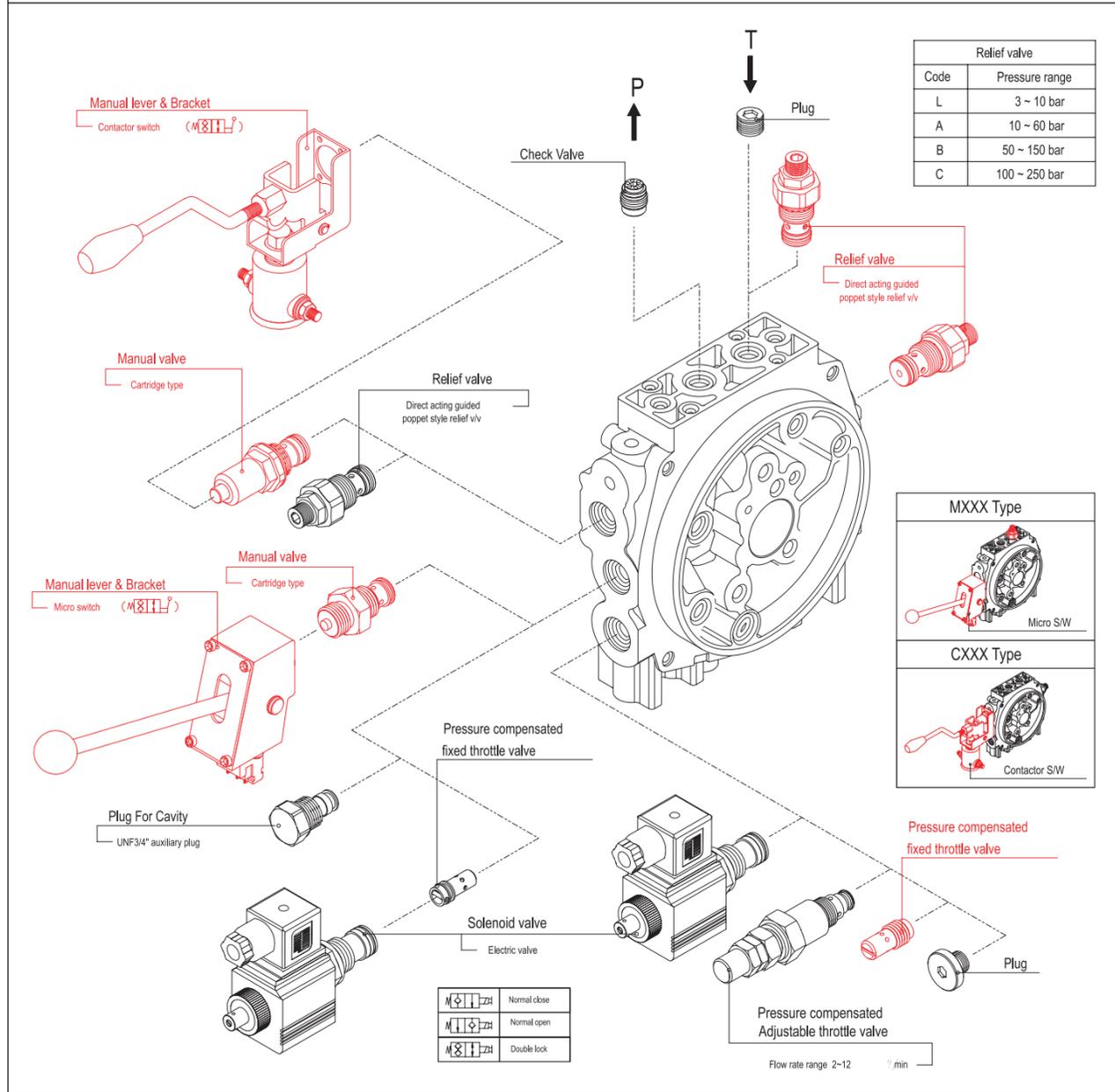
A	Code	Suction filter SF					
B	Code	1	2	3	4	5	6
	A	PF 3/8"	PF 3/8"	PF 3/8"	PT 3/8"	PT 1/4"	M8
	B(ø)	43	63	80	20	20	9
	C(mm)	15	23	27	49	35	16
	Type	A	B	B	C	D	E

6 A / B / C / D

Built-in valve

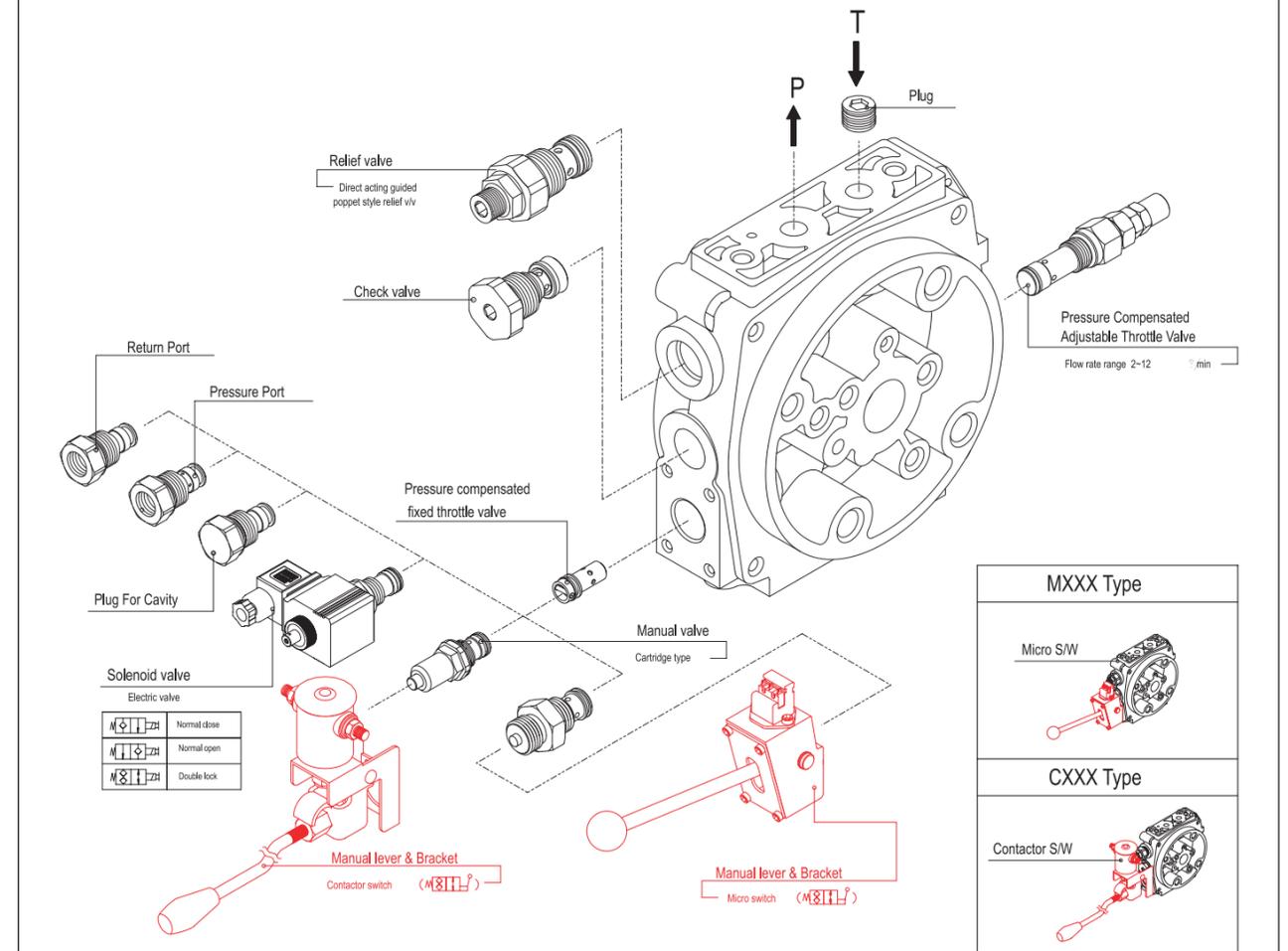
A	Code	S	MXXX	CXXX	NNNN			
	Type	Solenoid valve	Micro s/w manual	Contactor s/w manual	Plug for cavity			
B	Code	C	O	D				
	Type	Normally closed type	Normally open type	Double lock type				
C	Code	1	2	3	4	5	6	7
	Voltage	DC12V	DC24V	AC 110V	AC 220V	AC 110V RAC	AC 220V RAC	AC 24V
D	Code	Specification						
	1	Cavity	Working pressure (Max.)	Flow (Max.)	Internal leakage			
		08	280 bar	40 l/min	0.15 cc/min			

M Series Built-in valve



Note 1. Double locking () and Normal open () valves for AC application use RAC solenoid
2. Please use parts no., when you order the loose components

X Series Built-in valve



Note Please use parts no., when you order the loose components

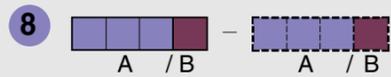
7 A

Setting compensated throttle valve

		Pressure compensated fixed throttle valve (F Series)								Diagram	Application	Dimension
Code	F01	F02	F03	F04	F06	F08	F10	F12				
A	Regulated flow rate (l/min)	1	2	3	4	6	8	10	12		M, X, QH	
												SH

		Pressure compensated fixed throttle valve (G Series)								Diagram	Application	Dimension
Code	G01	G02	G03	G04	G06	G08	G10	G12				
A	Regulated flow rate (l/min)	1	2	3	4	6	8	10	12		D1, D3	

		Pressure compensated adjustable throttle valve			
Code	GA	Diagram	Application	Dimension	
A	Regulated flow rate (l/min)	2~12		M, X, QH	



Modular block

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

A	Code	Modular block code
B	Quantity	Modular block Quantity

Code	Description	Diagram	Dimension
BY5	Spacing element. Element with ports PF3/8"		
BY2	Element for solenoid valves CETOP 3 manifold block-01 series connection		
BY3	Element for solenoid valves CETOP 3 manifold block-01 parallel connection		
BH3	Element for solenoid valves CETOP 3 manifold block-01 parallel connection (Prevent from the interference of oil tank and motor)		
BY4	Element for solenoid valves CETOP 3 manifold block-01 with pilot operated check valve A and B		
BH4	Element for solenoid valves CETOP 3 manifold block-01 with pilot operated check valve A and B (Prevent from the interference of oil tank and motor)		
BYF	Element for solenoid valves CETOP 3 manifold block-01 with pilot operated check valve A and B		

Note Please contact Hydro-Tek different specification of modular block.



Directional valve

A	Code	Directional valve code			
B	Code	1	2	3	4
	Voltage	DC 12V	DC 24V	AC 110V	AC 220V
C	Quantity	Quantity of Directional valves			

D	Code	Specification			
	Type	Working pressure (Max.)	Flow (Max.)	Connecting type	
1	CETOP 3	315 bar	63l/min	Terminal box	

Code	Diagram	Diagram
YA		
YP		
YC		
YO		
YT		
HA		
HP		
HC		
HO		
HB		

Note Please contact Hydro-Tek for detent type and manual type.



Modular block with cartridge solenoid valve

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

A	Code	Modular block with cartridge solenoid valve code						
B	Code	1	2	3	4	5	6	7
	Voltage	DC12V	DC24V	AC 110V	AC 220V	AC 110V RAC	AC 220V RAC	AC 24V

C	Quantity	Modular block with cartridge solenoid valve Quantity						
----------	----------	--	--	--	--	--	--	--

D	Code	G01	G02	G03	G04	G06	G08	G10	G12	Please refer to 'BUILT-IN VALVE' for this item.
	Flow rate (l/min)	1	2	3	4	6	8	10	12	

E	Quantity	" Setting compensated throttle valve" G serie valve Quantity								
----------	----------	--	--	--	--	--	--	--	--	--

Code	Description	Diagram	Dimension
D1	Element for double locking 2way poppet solenoid valve		
DA	Element for double locking 2way poppet solenoid valve		

Code	Description	Diagram	Dimension
DC	Element for normal close type 2way poppet solenoid valve		
DM	Element for double locking 2way poppet solenoid valve		
D2	Element for two double locking 2way poppet solenoid valve		
DO	Element for two double locking 2way poppet solenoid valve		
D3	Element for three double locking 2way poppet solenoid valve		
DY	Element for normal close type 2way poppet solenoid valve		
SS	Single acting speed control (CETOP 3)		
DS	Double acting speed control (CETOP 3)		

11

DC - Power pack code
(Please refer ① ~ ⑩ for this code)

Box type power pack

Code	BC	BT	BR	BL
	Box type with button case	Box type with small button case	Box type without button case (P port orientation-Right)	Box type without button case (P port orientation-Left)
Dimension				
Function	One single acting cylinder	Two single acting cylinder	One single acting cylinder and one double acting cylinder	Two double acting cylinder

Note

- This box type power pack is only for DC power pack.
- Oil tank is only available 'Round type 2 Liter' (MR02) and 'Square type 6 Liter' (MS06) for this power pack.
- Please contact Hydro-Tek for your special specification and customizing.

Ordering sample (in case of Standard)
D222H2-XX-MO5C-GO16-X-HPCX-MS06-SC21-F08-XXXX-XXXXX-XXXXXX-BR
 ① ② ③ ④ ⑤ ⑥ ⑦ ⑧ ⑨ ⑩ ⑪

Motor	DC 24V
Pump	1.6 CC/RE/
Tank	Square 6 L

Ordering sample (In case of Wing body)
D222H2-XX-MO1C-GO16-X-HPCX-MS06-XXXX-XXX-BYF2-YA221-XXXXXX-BR
 ① ② ③ ④ ⑤ ⑥ ⑦ ⑧ ⑨ ⑩ ⑪

Code	D221XXX	
Code	BYF1-YA211-DA21XXX	
Code	BYF2-YA221	

12 DC Motor code - **X X** - **A** - **A / B / C** - **X** **Pump Motor Unit PMU**
 See page 3 Maker A A / B / C Maker

Note Please refer to "page 3" for DC Motor detail code

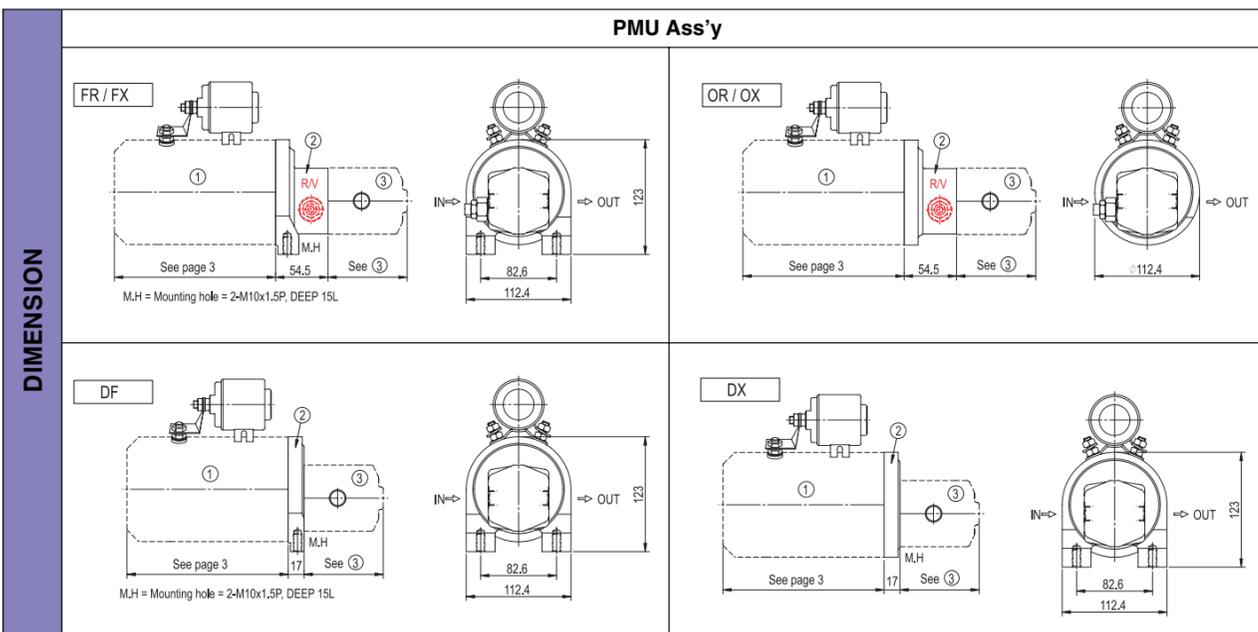
Sub - plate Code **2**

A	Foot / band mounting type			Design			
	Code	Foot	Relief valve	FR / FX	OR / OX	DF	DX
	FR	O	O				
	FX	O	X				
	OR	X	O				
	OX	X	X				
	DF	O	X				
	DX	X	X				

Note DF and DX are not available with relief valve.

Pump Code **3**

A	Gear pump G													
	Code		Specification				Code		Specification					
	Group	CC/REV	Displacement (cc/rev)	Flow (Liter/min @2500 RPM) DC	Flow (Liter/min @1700 RPM) AC	Max operating pressure (bar)	Max peak pressure (bar)	Group	CC/REV	Displacement (cc/rev)	Flow (Liter/min @2500 RPM) DC	Flow (Liter/min @1700 RPM) AC	Max operating pressure (bar)	Max peak pressure (bar)
B / C	H	02	0.2	0.5	0.3	190	230	O	11	1.1	2.7	1.8	230	270
	H	03	0.3	0.7	0.5	190	230	O	16	1.6	4.0	2.7	230	270
	H	05	0.5	1.2	0.8	190	230	O	21	2.1	5.2	3.5	230	270
	H	07	0.7	1.7	1.1	190	230	O	23	2.3	5.7	3.9	230	270
	H	11	1.1	2.7	1.8	190	230	O	27	2.7	6.7	4.6	230	270
Please refer to "Coding No.3" for detail dimension (See page 8)														
	O	32	3.2	8.0	5.4	210	250	O	37	3.7	9.2	6.2	210	250
	O	42	4.2	10.5	7.1	210	250							



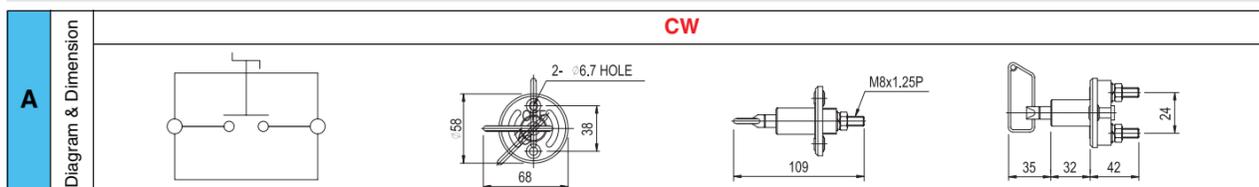
Note Applicable motor code : DA05, DB05, D112, D212, D116, D222, D124, D230, D420, L116, L222, L230

13 **A** **P.M.U Block**

A	Modular block with cartridge solenoid valve for P.M.U type		
	Function	One single acting cylinder	Two single acting cylinder
	Code	T1	T2
	Diagram	Dimension	Dimension
	PMU ASS'Y 		

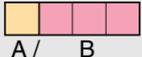
Note T2 block needs T1 block for its function.

14 **A** **(Hydraulic Accessories) Battery Cut/Out switch**

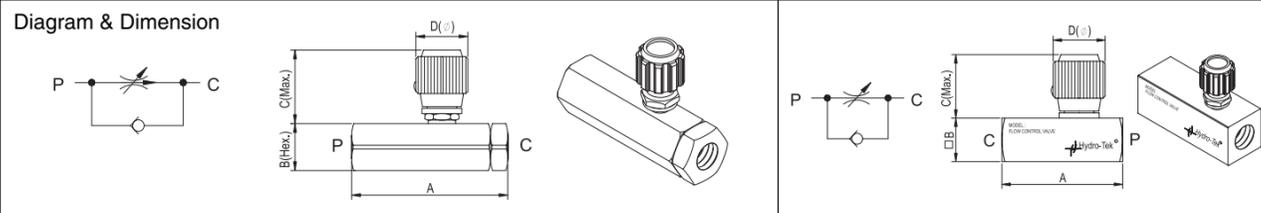


14 **(Hydraulic Accessories) Component parts in center block**

Code No.	Description	Diagram	Dimension	Code No.	Description	Diagram	Dimension
	Solenoid normally close cartridge valve			Check valve			
	Solenoid normally open cartridge valve			Speed control valve			
	Solenoid double locking cartridge valve			Plug for cavity			
	Manual cartridge valve						
	Relief valve						

15  **(Others) Compensated adjustable throttle valve & Flow control valve**

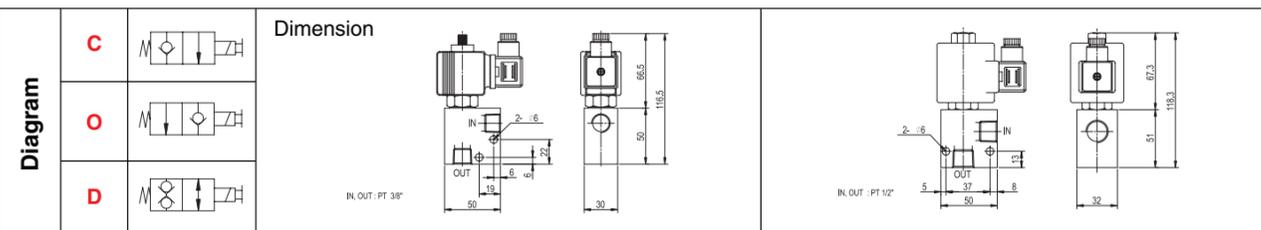
A	Code	Compensated adjustable throttle valve P			Flow control valve F		
B	Code	400	600	800	400	600	800
	Port	PT 1/4"	PT 3/8"	PT 1/2"	PT 1/4"	PT 3/8"	PT 1/2"
	Flow (Max.)	1 ~ 10 l/min	1 ~ 18 l/min	1 ~ 33 l/min	20 l/min	55 l/min	110 l/min
	Pressure (Max.)	250bar	250bar	250bar	350bar	350bar	350bar
	A (mm)	90	90	107	65	70	87
	B (mm)	27	27	36	20	25	32
	C (mm)	38	38	41	34	45	44
	D (mm)	24	24	30	24	30	30

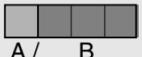


Note Please contact Hydro-Tek for different thread specification of 'P' ports.

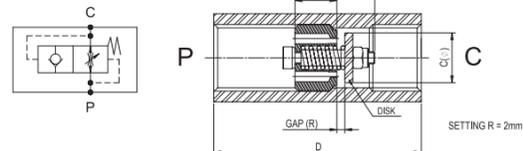
15  **(Others) Solenoid valve**

A	Code	Solenoid valve V					
B	Code	C		O		D	
	Type	Normally closed		Normally open		Double lock	
C	Code	1	2	3	4	5	7
	Voltage	DC12V	DC24V	AC 110V	AC 220V	AC 110V RAC	AC 220V RAC
D	Code	1			3		
	Specification	Cavity 08	Pressure (Max.) 250bar	Flow (Max.) 40 l/min	Cavity 10	Pressure (Max.) 350bar	Flow (Max.) 68 l/min



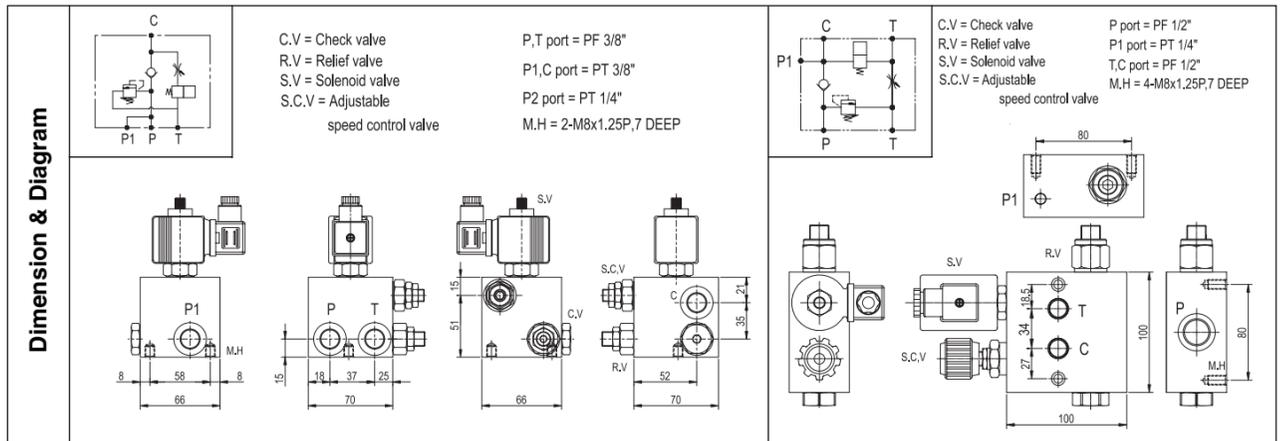
15  **(Others) Burst valve**

A	Code	Burst valve B			
B	Code	400	600	800	Diagram & Dimension
	Port	PT 1/4"	PT 3/8"	PT 1/2"	
	Flow (Max.)	25l/min	50l/min	80l/min	
	A (mm)	17.5	23	25	
	B (mm)	8	10.5	12	
	C (mm)	9.5	12.5	15	



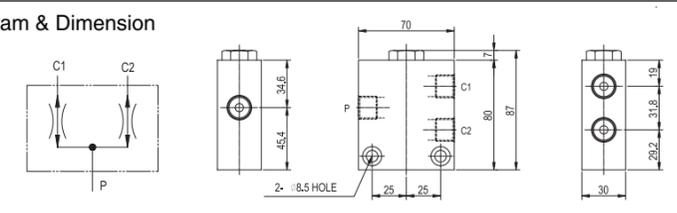
15  **(Others) Lift valve**

A	Code	Lift valve code L					
B	Code	C		O		D	
	Diagram	Normally closed		Normally open		Double lock	
C	Code	1	2	3	4	5	7
	Voltage	DC12V	DC24V	AC 110V	AC 220V	AC 110V RAC	AC 220V RAC
D	Code	1			3		
	Specification	Cavity 08	Pressure (Max.) 250bar	Flow (Max.) 40 l/min	Cavity 10	Pressure (Max.) 350bar	Flow (Max.) 68 l/min



15  **(Others) Flow divider**

A	Code	Flow divider D						
B	Code	A	B	C	D	E	F	G
	Flow rate (l/min)	7.6	15.1	22.7	30.3	37.9	45.4	60.6
Diagram & Dimension	Code	Ports size (P, C1, C2)						
	DA	PF 1/4"						
	DB, DC	PF 3/8"						
	DE, DF, DG	PF 1/2"						



15  **(Others) Hand pump**

A	Diagram & Dimension	HP	HPP	KP
Diagram & Dimension	Capacity : 10cc C = PF1/4"		Capacity : 10cc S.V = SOLENOID VALVE P = PF1/4"	Capacity = 8.2cc

16 Motor code --- **XX** --- Design code --- A / B --- Pump code --- **X** --- Maker --- Mounting code

Special application for Submerged

Submerged center block SM ②

C.V = CHECK VALVE
R.V = RELIEF VALVE
S.V = SOLENOID VALVE
F.C.T.V = FIXED COMPENSATED THROTTLE VALVE
GA = PRESSURE COMPENSATED ADJUSTABLE THROTTLE VALVE
P.T = PF3/8" (PF1/4")
P2 = PT1/4"

Relief valve	
Code	Pressure range
A	10 ~ 60 bar
B	50 ~ 150 bar
C	100 ~ 250 bar

A

B Center block Diagram (See page 5)

Tank SM ⑤

Code	SMR			SMS			XXXXX
Type	SM - Series & Round type oil tank			SM - Series & Square type oil tank			Without Oil tank
Code	08	11	15	10	20	20	
Cap. (ℓ)							
Working cap. (ℓ)							
Type	A	A	A	B	B	B	

A

B

DIMENSION			
SMS10	SMS20	SMS30	
A			
B			
C			

Note 1. Please contact Hydro-Tek for your special specification and customizing

ROUND TYPE

SQUARE TYPE

17 Motor code --- **XX** --- Design code --- A / B / C --- Pump code --- **X** --- Maker --- Mounting code

Tank code (X-series) --- Built in code --- **D**

Special application for Dock leveler

Dock leveler center block DL ②

A

C.V = CHECK VALVE
R.V = RELIEF VALVE
S.V = SOLENOID VALVE
O.R = ORIFICE
S.C = SPEED CONTROL VALVE
P.O.D = PILOT OPERATED DIRECTIONAL VALVE
S.Q = SEQUENCE VALVE
C.P = CHECK POINT (PF1/4")
A,B = PF1/4"

Relief valve	
Code	Pressure range
A	10 ~ 60 bar
B	50 ~ 150 bar
C	100 ~ 250 bar

Dock leveler Diagram

Code	1	2	3	4	5	6
Type	Double acting cylinder (Emergency valve type)	Double acting cylinder (No emergency valve type)	Single acting cylinder (Emergency valve type)	Single acting cylinder (No emergency valve type)	Double acting cylinder (Emergency valve type)	Double acting cylinder (No emergency valve type)
Diagram						

Ordering sample (Emergency valve type)
T41556-HD-DL5A-GO21-X-HPCX-XR05-SC41-H2

① ② ③ ④ ⑤ ⑥ ⑦

Example

Motor	AC230/400V, 1.5kW, 50/60Hz
Center block	Emergency type No.1 Diagram
	No emergency type No.2 Diagram
Pump	2.1 CC/REV
Tank	Round 5L
Emergency valve	AC220V
Orifice	∅1.5

Ordering sample (No emergency valve type)
T41556-HD-DL6A-GO21-X-HPCX-XR05-NNNN-H2

① ② ③ ④ ⑤ ⑥ ⑦

D ⑦

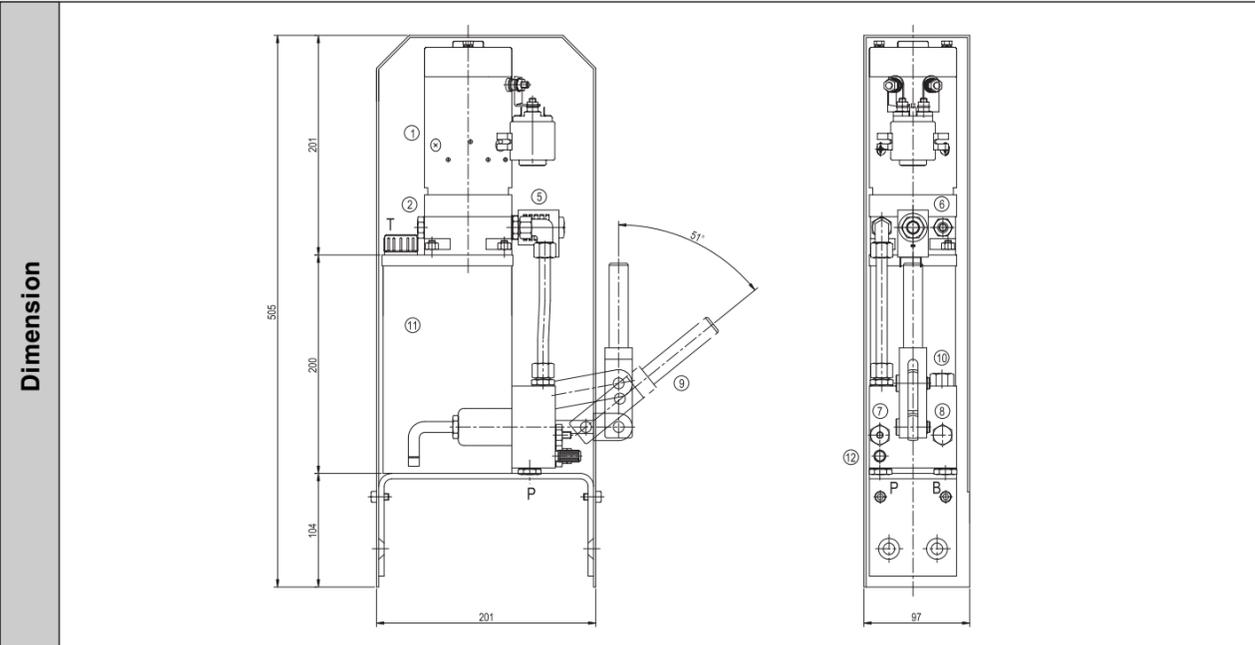
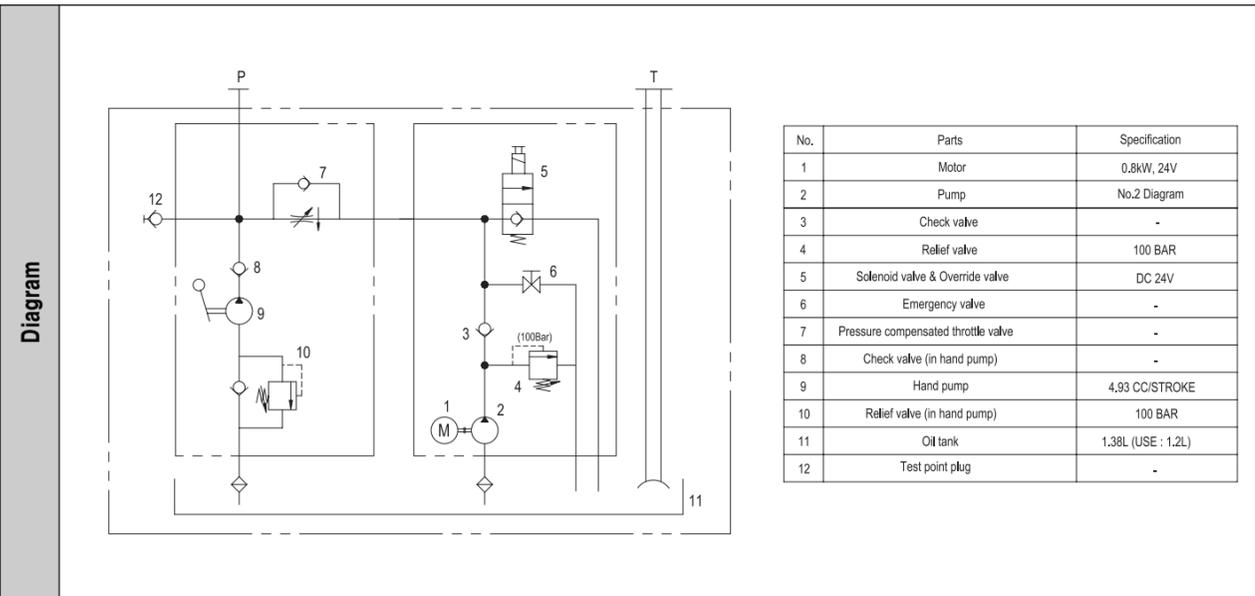
Orifice Diagram & Dimension

Code	H1	H2	H3
A (∅)	∅1	∅1.5	∅1.8

Note Dock leveler power pack can be assembled with only X-series oil tank.

18

Special application for Wheel Chair Power Pack



19

DC MOTOR CHARACTERISTIC CURVES

