

Hydro-Tek 2008

WORLD BEST HYDRAULIC POWER UNITS



Hydraulic Motor
Hydraulic Pump
Hydraulic Valve
Hydraulic Accessory



HYDRAULIC POWER UNITS



Hydraulic solution **Hydro-Tek®**



산업 피밀리 기업 지정서

기업명 : 하이드로텍(주)
대표자 : 유성열
사업자등록번호 : 135-81-307002

귀사를 산학연협력 활성화를 일환으로
수준증진 '산업 세밀리 클러스터 사업'에
참여하는 세밀리 기업으로 지정합니다.

(지정기간 : '07.04.01 ~ '10.04.01)

2007년 4월 2일

경기중소기업진흥지원센터
대표이사 이명훈

아주대학교
장정서문

중소기업청

벤처기업확인서

업체명 : 하이드로텍(주)
대표자 : 유성열
소재지 : 경기도 과천시 마도면 송령리 107-12
확인유형 : 신기술기업
평가기관 : 기술산업보증기금
유효기간 : 2006. 4. 20 ~ 2007. 12. 31

위 업체는 벤처기업육성에관한특별조치법
제25조의 규정에 의하여 벤처기업임을 확인
합니다.

2006년 4월 20일

경기지방중소기업청장

제 20062428 호

기업부설연구소 인정서

1. 연구소명 : 하이드로텍(주) 기술연구소
[소속기업명 : 하이드로텍(주)]
2. 소재지 : 경기도 과천시 마도면 송령리 107-12
3. 신고연월일 : 2006년 7월 4일

기술개발촉진법 제16조 및 동법 시행령 제15조 제1항의
규정에 의하여 하위 같이 기업부설연구소로 인정합니다.

2006년 8월 4일

한국산업기술진흥위원회

제 2006-437 호

안전인증서
하이드로텍(주)

경기도 과천시 마도면 송령리 107-12
위 회사에서 제조하는 기계류 등에는 산업안전보건법 제34조제1항에서
정한 안전보건기준에 적합하므로 안전인증표지 사용을 인정합니다.

발행처 : 한국산업안전공단

발행처명 : 한국산업안전공단
소재지 : 서울특별시 강남구 테헤란로 152
전화번호 : 02-550-4370

발행처명 : 한국산업안전공단
소재지 : 서울특별시 강남구 테헤란로 152
전화번호 : 02-550-4370

발행처명 : 한국산업안전공단
소재지 : 서울특별시 강남구 테헤란로 152
전화번호 : 02-550-4370

2006년 12월 21일

한국산업안전공단 이사장

제 2006-437 호

안전인증서
하이드로텍(주)

경기도 과천시 마도면 송령리 107-12
위 회사에서 제조하는 기계류 등에는 산업안전보건법 제34조제1항에서
정한 안전보건기준에 적합하므로 안전인증표지 사용을 인정합니다.

발행처 : 한국산업안전공단

발행처명 : 한국산업안전공단
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전화번호 : 02-550-4370

2006년 12월 21일

한국산업안전공단 이사장

Certification of Quality Approval

DAS CERTIFICATION
QUALITY MANAGEMENT SYSTEM
Certificate of Approval

This is to certify that the quality management system of
HYDRO-TEK CO., LTD.
#107-12 Seongnam-si, Gyeonggi-do, Korea
Has been assessed and found to meet the requirements of:
ISO 9001:2000 / KS A 9001:2001

The certificate is valid for the following scope of operation:
Design, Development, Manufacturing and Supply of Hydraulic Units
(Hydraulic Power Pack)

Next to A. 14, Machinery and equipment

Date of Certificate Issue: 04-February-2006
Certificate Valid until: 04-February-2009
Certificate Number: 02624884

Authorised: [Signature]
Date: 04-February-2006

DAS CERTIFICATION Ltd.
100-11, Seongnam-si, Gyeonggi-do, Korea
Tel: +82-31-950-0000
Fax: +82-31-950-0001
E-mail: info@dascert.co.kr
Web: www.dascert.co.kr

IAF

CERTIFICATE
No. Z1 05 05 5080 001

Holder of Certificate: **Hydro-Tek Co., Ltd.**
107-12, Seongnam-si, Gyeonggi-do, Korea

Certification Mark:

Product: **Hydraulic Units (Hydraulic Power Pack)**

The product was tested in a laboratory and conforms with the essential requirements. The
certification mark shown above can be affixed to the product. See also rules issued.

Test report no.: M958101715

Date: 2006.05.27
Page 1 of 2

TUV Product Service GmbH | TÜV SÜD Gruppe | Zertifizierung | Referenz-Nr.: 8028-Winter | Bayern

인정번호 : 제 15339 호

CLEAN 사업장 인정서

사업장명 : 하이드로텍(주)
대표자 : 유성열
소재지 : 경기도 과천시 마도면 송령리 107-12

귀 사업장을 안전하고 깨끗한 'CLEAN
사업장'으로 인정합니다.

2005년 6월 23일

노동부장관

한국산업안전공단 이사장

EC Declaration of Conformity
according to EC Machinery Directive 90/269/EEC, Annex II A

We herewith declare: **Hydro-Tek Co., Ltd.**
107-12, Seongnam-si, Gyeonggi-do, Korea

Machine Description: Hydraulic Power Pack
Machine Type: Hydro-Tek DC power pack
Serial Number:

Applicable EC Directive: Machinery Directive (90/269/EEC)
EMC Directive (89/368/EEC)

Applicable Harmonized Standards: EN ISO 12100-1:2003
EN ISO 12100-2:2003
EN 60204-1:2006

Date/Authorized Signature: **HYDRO-TEK CO., LTD.**
PRESIDENT: SUNG BYUL YOO
[Signature]

Title of Signatory: [Signature]

EC Declaration of Conformity
according to EC Machinery Directive 90/269/EEC, Annex II A

We herewith declare: **Hydro-Tek Co., Ltd.**
107-12, Seongnam-si, Gyeonggi-do, Korea

Machine Description: Hydraulic Power Pack
Machine Type: Hydro-Tek AC power pack-R
Serial Number:

Applicable EC Directive: Machinery Directive (90/269/EEC)
EMC Directive (89/368/EEC)

Applicable Harmonized Standards: EN ISO 12100-1:2003
EN ISO 12100-2:2003
EN 60204-1:2006

Date/Authorized Signature: **HYDRO-TEK CO., LTD.**
PRESIDENT: SUNG BYUL YOO
[Signature]

Title of Signatory: [Signature]

EC Declaration of Conformity
according to EC Machinery Directive 90/269/EEC, Annex II A

We herewith declare: **Hydro-Tek Co., Ltd.**
107-12, Seongnam-si, Gyeonggi-do, Korea

Machine Description: Hydraulic Power Pack
Machine Type: Hydro-Tek AC power pack-T
Serial Number:

Applicable EC Directive: Machinery Directive (90/269/EEC)
EMC Directive (89/368/EEC)

Applicable Harmonized Standards: EN ISO 12100-1:2003
EN ISO 12100-2:2003
EN 60204-1:2006

Date/Authorized Signature: **HYDRO-TEK CO., LTD.**
PRESIDENT: SUNG BYUL YOO
[Signature]

Title of Signatory: [Signature]

CERTIFICATE
No. Z1 05 05 5080 002

Holder of Certificate: **Hydro-Tek Co., Ltd.**
107-12, Seongnam-si, Gyeonggi-do, Korea

Certification Mark:

Product: **Hydraulic Units (Hydraulic Power Pack)**

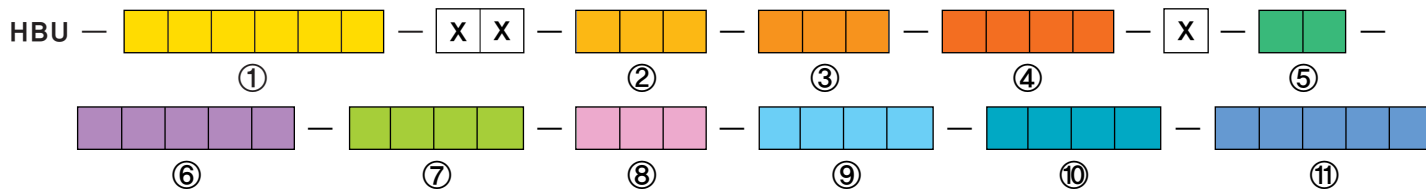
The product was tested in a laboratory and conforms with the essential requirements. The
certification mark shown above can be affixed to the product. See also rules issued.

Test report no.: M958101715

Date: 2006.05.27
Page 1 of 2

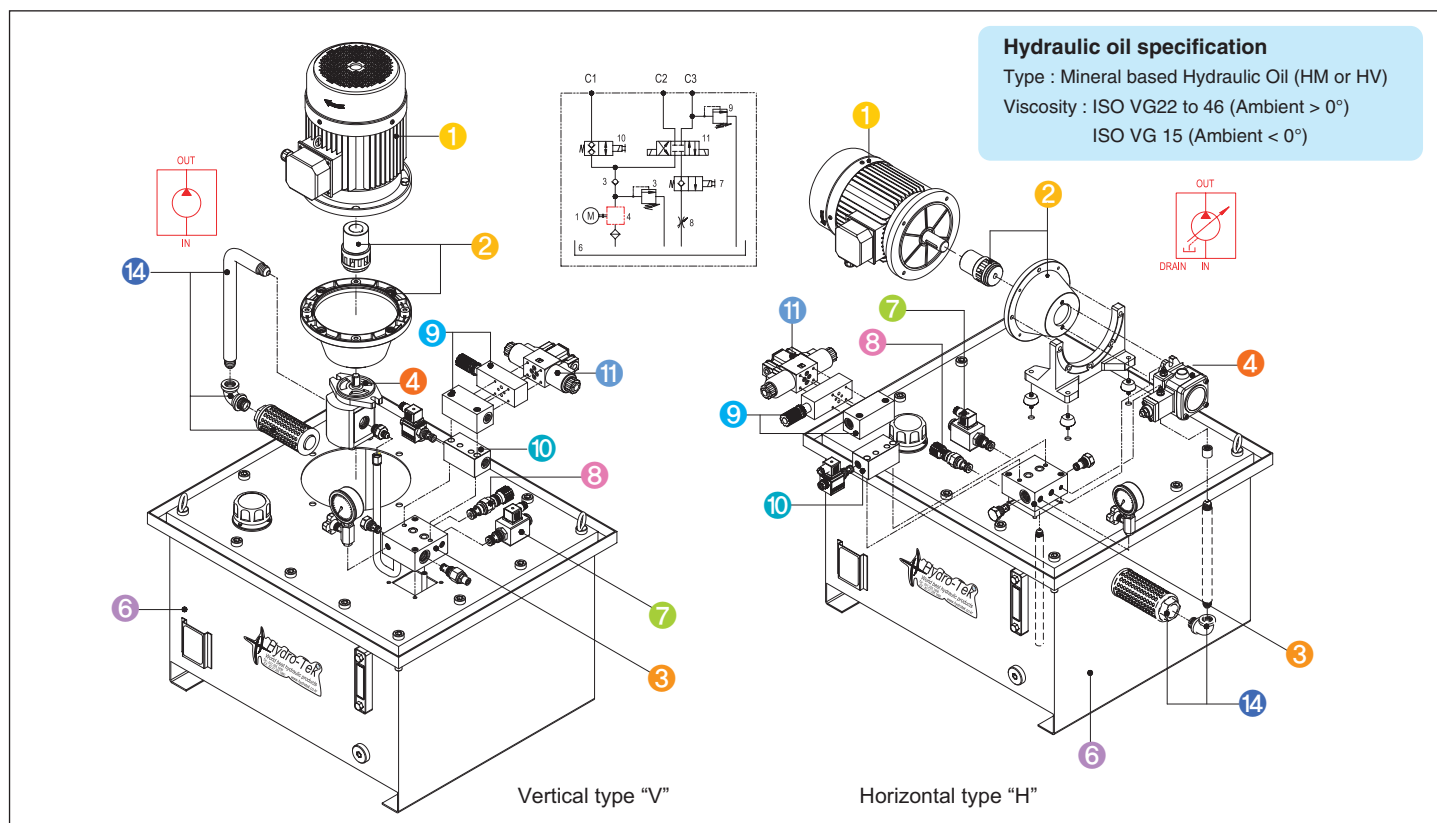
TUV Product Service GmbH | TÜV SÜD Gruppe | Zertifizierung | Referenz-Nr.: 8028-Winter | Bayern

CODING SYSTEM



CODING INDEX

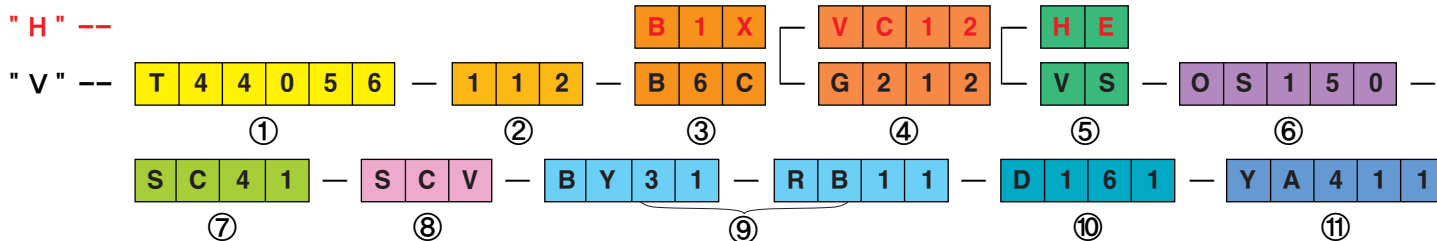
① Motor	P.3	⑧ Setting throttle valve	P.8
② Bell housing & Coupling	P.3	⑨ Modular block	P.9
③ Base block	P.4	⑩ Modular block with cartridge solenoid valve	P.13
④ Pump	P.5	⑪ Directional valve series	P.14
⑤ Mounting & Motor orientation	P.6	⑫ Dimension	P.15
⑥ Tank	P.7	⑬ Others	P.15
⑦ Built-in valve	P.8	⑭ Accessories	P.17



Order coding example

Description : Motor : 3phase 4pole 4.0Kw 50/60Hz
 Bell housing : 112 frame
 Pump : Gear pump group 2 12cc/rev
 Vane pump 12 l/min, 30~70 bar
 Base block : Lift v/v diagram with Speed control v/v []

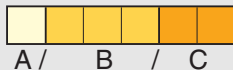
Setting pressure : 180 bar / No relief valve in case of vane pump
 Mounting : Vertical. Terminal box orientation is to Southward
 Horizontal. Terminal box orientation is to Eastward
 Tank : Square type 150 liter with oil receiver
 Diagram : One single acting and one double acting cylinder + RB1(R/V for B port)



Note

1. In coding system, X is only for Hydro-Tek.
2. Please contact Hydro-Tek for special specification and different screw specification.

1


 X X
 Maker

(X is only for maker's use)

MOTOR

A	Code	XXXXXX	H	S	T	F
	Voltage	X	110V	220V	230/400V	254/440V
	Phase	Without motor	AC Single-phase motor		AC Three-phase motor	

B

3 phase motor

Code		Specification											
pole	Kw	Frame	Kw	IP	A	B	C	D	E	F	G	H	I
4	15	090	1.5	54	185	285	50	165	200	12	24	27	8
4	22		2.2	54	185	315	50	165	200	12	24	27	8
4	40	112	4.0	54	230	335	60	215	250	15	28	31	8
4	55		5.5	54	230	335	60	215	250	15	28	31	8
4	55	132	5.5	54	270	356	80	265	300	15	38	41	10
4	75		7.5	54	270	395	80	265	300	15	38	41	10
4	92		9.2	54	270	420	80	265	300	15	38	41	10
4	A1		11	54	270	420	80	265	300	15	38	41	10

1 phase motor

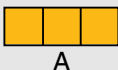
Code		Dimension											
pole	Kw	Frame	Kw	IP	A	B	C	D	E	F	G	H	I
4	15	090	1.5	54	185	315	50	165	200	12	24	27	8
4	22	100	2.2	54	205	385	60	215	250	15	28	31	8
4	30		3.0	54	230	393	60	215	250	15	28	31	8
4	37	112	3.7	54	230	393	60	215	250	15	28	31	8

4pole 60Hz 1700 RPM
4pole 50Hz 1500 RPM

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

Note Please contact Hydro-Tek for 2pole and 6pole motors over 11kw and DC application. (HBU with DC motor)

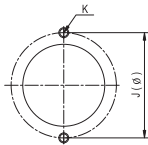
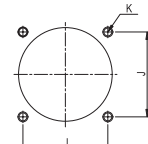
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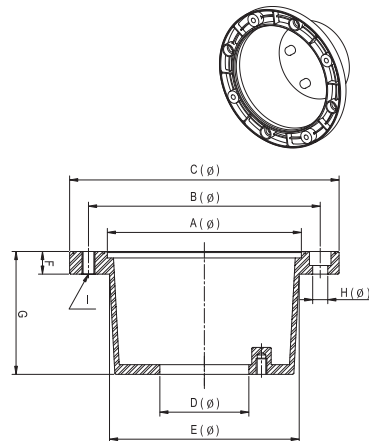


Bell housing and Coupling

A

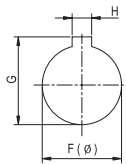
Bell housing

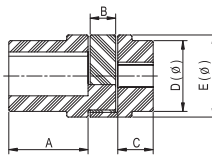
Code	Specification											
Frame	A	B	C	D	E	F	G	H	I	J	K	
090	130	165	200	82.55	135	16	104	11	M10	106	M10	
112	180	215	250	82.55	183	21	114	14	M12	106	M10	
132	230	265	300	82.55	235	21	134	14	M12	106	M10	
for gear pump and vane pump (12, 15, 20 l/min)												
Frame	A	B	C	D	E	F	G	H	I	J	K	
090	130	165	200	95.05	135	16	104	11	M10	90	M10	
112	180	215	250	95.05	183	21	114	14	M12	90	M10	
132	230	265	300	95.05	235	21	134	14	M12	90	M10	
for vane pump (30, 40 l/min)												

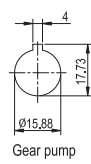


Coupling

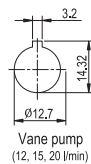
Frame	A	B	C	D	E	F	G	H
090	46.5	17	26	42	48	24	27	8
112	56	18	25	50	58	28	31	8
132	76	22	21	68	78	38	41.3	10



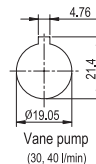




Gear pump



Vane pump
(12, 15, 20 l/min)



Vane pump
(30, 40 l/min)

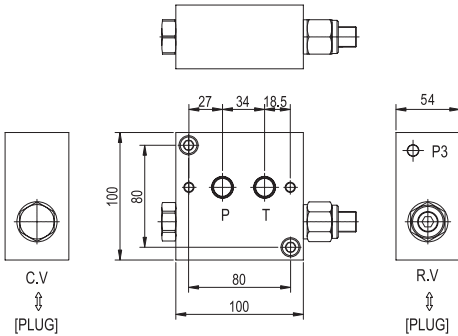
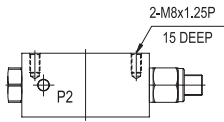
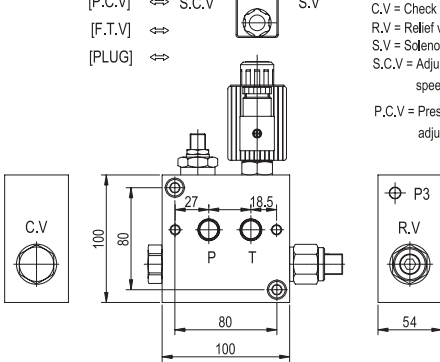
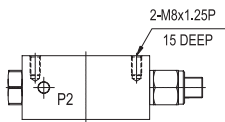
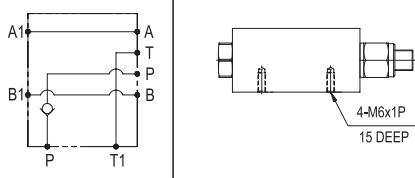
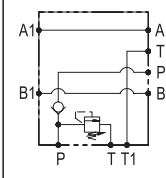
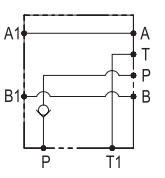
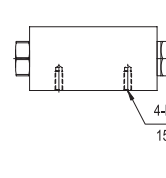
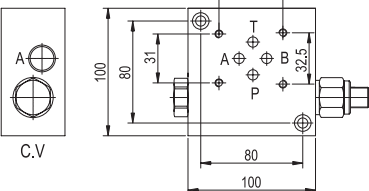
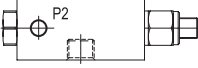
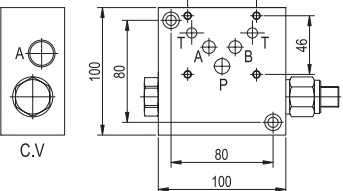
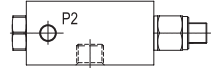
Note Couplings are designed to be used with Urethane insert. If you want to order only coupling, please refer p.17 coupling information.

Base block diagram

Code	B0	B1	B2	B3	B4	B5/B6/B7
Diagram						
	B5 = B4 + F.T.V [] / B6 = B4 + S.C.V [] / B7 = B4 + P.C.V []					

A

Dimensions

 C.V = Check valve R.V = Relief valve P,T port = PF 3/8" P2 port = PT 1/4" P3 port = PF 1/4" 	 F.T.V = Fixed compensated throttle valve P,T port = PF 3/8" P2 port = PT 1/4" P3 port = PF 1/4" 		
Applicable base block : B0, B1, B2, B3		Applicable base block : B4, B5, B6, B7	
M1 	M2 	M3 	M4 
 C.V = Check valve R.V = Relief valve A,B port = PF 3/8" P2 port = PT 1/4" 	 C.V = Check valve R.V = Relief valve A,B port = PF 1/2" P2 port = PT 1/4" 		
Applicable base block : M1 (B1+BY3), M2 (B3+BY3)		Applicable base block : M3 (B1+BB3), M4 (B3+BB3)	

Note

1. Please contact Hydro-Tek for different thread specification of P, T, A, B Ports.
2. Please see page 12 for multi-manifold block.

Base block pressure range

B	Code	A	B	C	D	X
	Pressure range	5 ~ 40 bar	20 ~ 80 bar	50 ~ 220 bar	180 ~ 350 bar	without relief valve

A	Code	G	V	F
	Pump type	Gear pump	Variable displacement vane pump	Fixed displacement vane pump

A Gear pump G

B / C

Code		Specification							
B	C	Displacement (cc/rev)	Flow (l/min) @ 1700 RPM	Max. operating pressure	Max. peak pressure	A	B	C	D
Group	CC/REV								
2	04	4.0	6.8	280	310	44	96	1/2	1/2
2	06	6.0	10.2	280	310	45	98	1/2	1/2
2	07	7.0	11.9	280	310	45.7	99.5	1/2	1/2
2	08	8.0	13.6	280	310	46.7	101	1/2	1/2
2	10	10.0	17.0	280	310	48	104	1/2	1/2
2	12	12.0	20.4	280	310	50	108	1/2	1/2
2	14	14.0	23.8	260	290	51	110	3/4	1/2
2	16	16.0	27.2	260	290	53	114	3/4	1/2
2	18	18.0	30.6	260	290	54.5	117	3/4	1/2
2	20	20.0	34.0	230	260	56	120	3/4	1/2
2	22	22.0	37.4	230	260	57.5	123	3/4	1/2
2	25	25.0	42.5	210	240	60	128	3/4	1/2
2	28	28.0	47.6	200	230	62.5	133	3/4	1/2
2	30	30.0	51.0	180	210	64	136	3/4	1/2
2	32	32.0	54.4	180	210	65	138	3/4	1/2
2	34	34.0	57.8	160	190	67	142	3/4	1/2
2	36	36.0	61.2	160	190	68.5	145	3/4	1/2

Note Please contact Hydro-Tek for Group 1, 3, CCW rotation, other flange types and etc.

A Variable displacement vane pump V

B	Code	A	B	C
	pressure range	8 ~ 18 BAR	14 ~ 35 BAR	30 ~ 70 BAR

C

Code	Specification					
	Displacement (cc/rev)	Flow (l/min) @1800 RPM	Rated pressure (bar)	A	B	C
12	6.6	12	70	1/2	3/8	1/4
15	8.3	15	70	1/2	3/8	1/4
20	11.0	20	70	1/2	3/8	1/4
30	16.6	30	70	3/4	1/2	1/4
40	22.2	40	70	3/4	1/2	1/4
-	-	-	-	-	-	-
-	-	-	-	-	-	-
-	-	-	-	-	-	-
-	-	-	-	-	-	-

Dimension

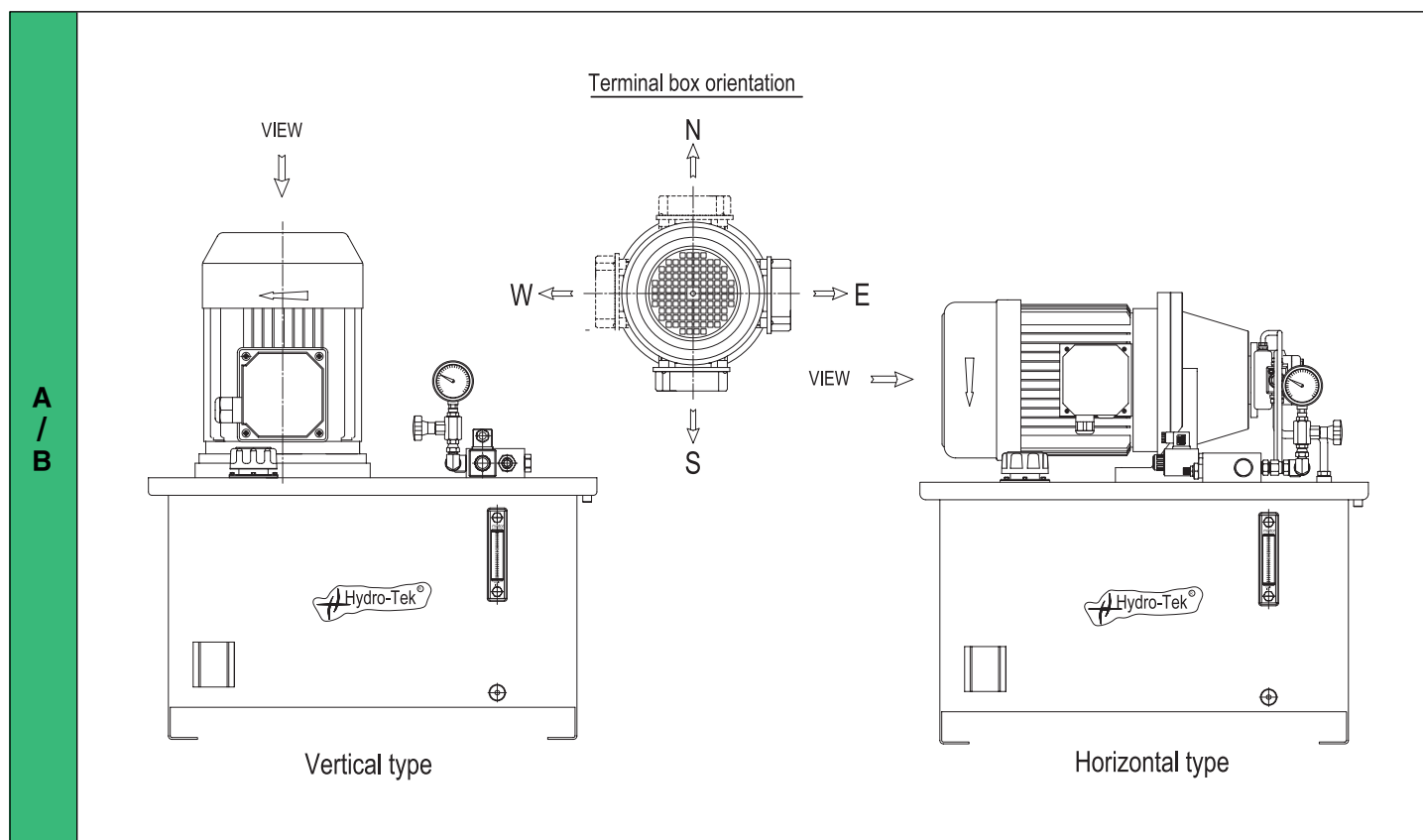
Applicable Pump : Vane pump (12, 15, 20 l/min)

Applicable Pump : Vane pump (30, 40 l/min)

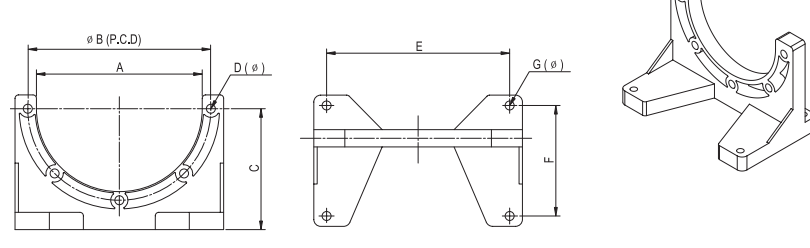
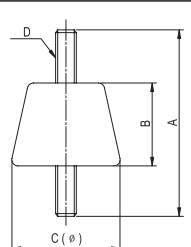
Note Please contact Hydro-Tek for Fixed displacement vane pump and piston pump.

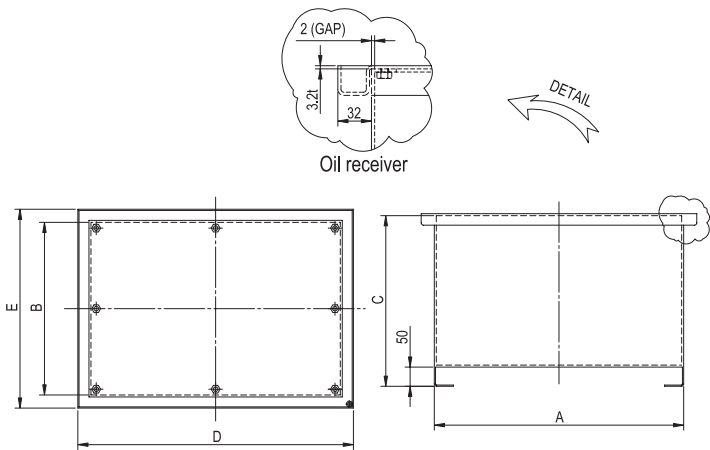
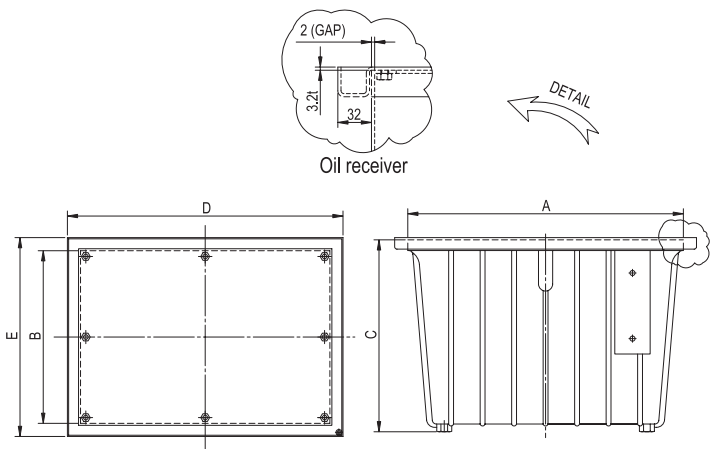
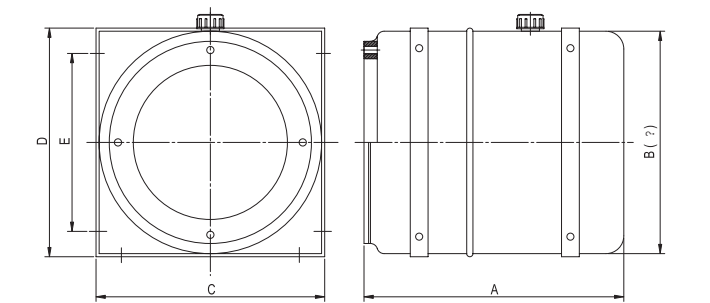
A	Code	V	H
	Motor mounting	Vertical	Horizontal

B	Code	S	N	E	W
	Terminal box Orientation	Southward	Northward	Eastward	Westward



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

Accessory for horizontal motor	Foot flange							
	Applicable to bell housing	Specification						
		A	B	C	D	E	F	G
	090 frame	140	165	123	11.5	168	103	9
	112 frame	180	215	150	13	220	130	11
	132 frame	240	265	175	13	265	160	13
								
	Vibration resister							
	Applicable for bell housing	Specification						
		A	B	C	D			
	090 frame	68	24	40	M8	Note Made of rubber it can absorb noises and vibration of motor, so it allows silent operation.		
	112 frame	90	40	50	M10			
	132 frame	115	45	60	M12			

A	Code	BS			OS			BA				OA				BR		
	Type	Square type oil tank without oil receiver			Square type oil tank with oil receiver			Aluminum oil tank without oil receiver				Aluminum oil tank with oil receiver				Round type oil tank		
B	Code	030	050	070	100	120	150	010	015	030	050	-	-	030	050	010	015	022
	Cap. ℓ	40	65	90	130	150	195	15	20	35	62	-	-	35	62	14	25	28
	Working cap. ℓ	30	50	70	100	120	150	10	15	30	50	-	-	30	50	10	15	22
	Square type oil tank BS · OS																	
	Code	Specification																
	A	B	C	D	E													
	030	490	340	335	554	404												
	050	595	450	395	659	514												
	070	650	450	450	714	514												
	100	700	600	450	764	664												
120	800	600	450	864	664													
150	900	600	450	964	664													
-																		
-																		
Aluminum oil tank for only vertical type unit BA · OA																		
Code	Specification																	
A	B	C	D	E														
010	335	247	220	404	311													
015	368	290	243	432	354													
030	490	340	285	554	404													
050	595	450	345	659	514													
-																		
-																		
-																		
-																		
Round type oil tank BR																		
Code	Specification																	
A	B	C	D	E														
010	292	267.4	279.4	279.4	200													
015	497	267.4	279.4	279.4	200													
022	570	267.4	279.4	279.4	200													
-																		
-																		
-																		
-																		
-																		
-																		
These tanks can be applied only to 90 and 112 frames.																		

These tanks can be applied only to 90 and 112 frames.

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

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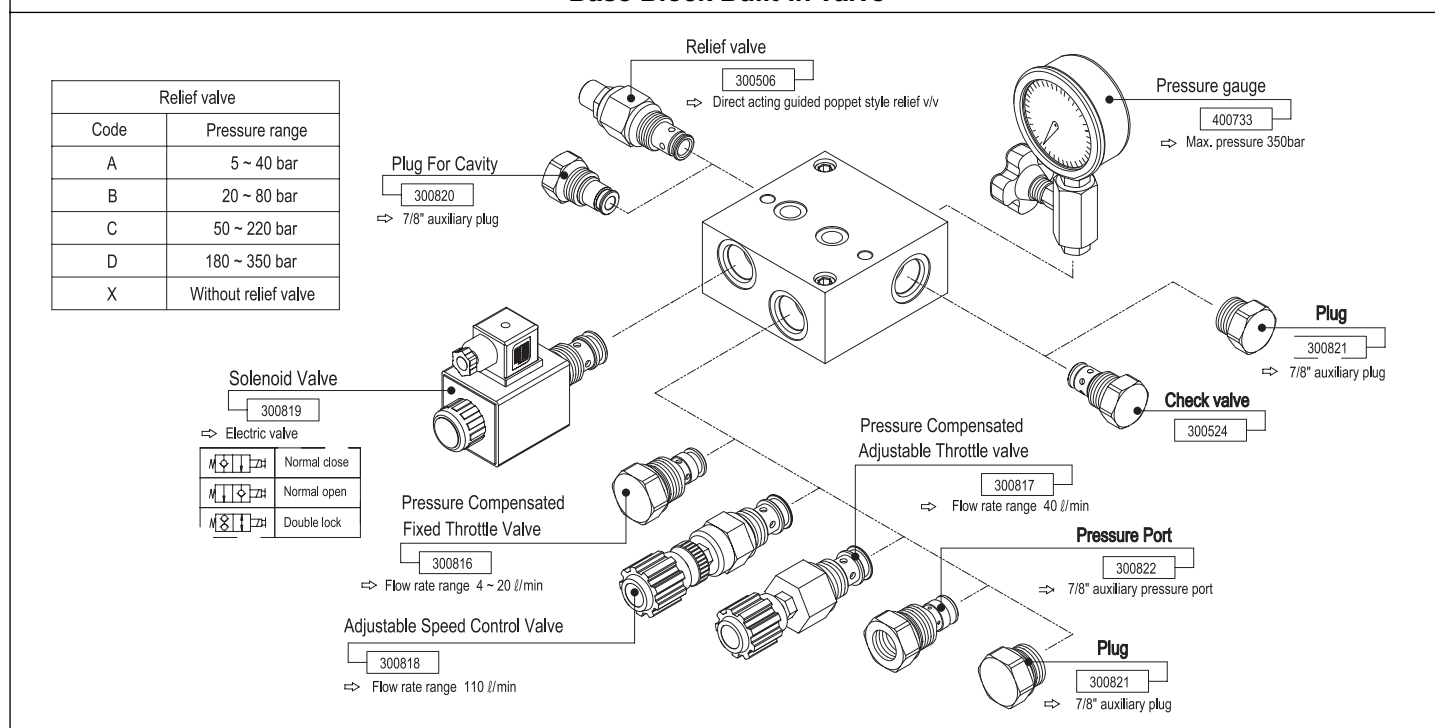


A / B / C / D

Built-in valve

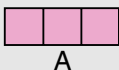
A	Code	S				NNNN		
	Type	Solenoid valve				Plug for cavity		
B	Code	C		O		D		
	Type	Normally closed type		Normally open type		Double lock type		
C	Code	1	2	3	4	5	6	7
	Voltage	DC12V	DC24V	AC 110V	AC 220V	AC 110V	AC 220V RAC	AC 24V
D	Code	Specification						
		Cavity	Working pressure (Max.)		Flow (Max.)		Internal leakage	
	1	08	280 bar		40 l/min		0.15 cc/min	
	3	10	350 bar		68 l/min		0.15 cc/min	

Base Block Built-in valve



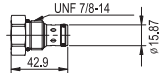
Note Please use parts no., when you order the loose components.

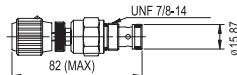
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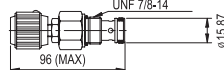


A

Setting compensated throttle valve

A	Pressure compensated fixed throttle valve (K Series)								
	Code	K04	K08	K12	K16	K20	Diagram	Application	Dimension
	Regulated flow rate (ℓ/min)	4	8	12	16	20		B5	

A	Adjustable speed control valve					
	Code	SCV	Diagram	Application	Dimension	
	Regulated flow rate (ℓ/min)	110		B6		

A	Pressure compensated adjustable throttle valve					
	Code	PCV	Diagram	Application	Dimension	
	Regulated flow rate (ℓ/min)	40		B7		



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

A	Code	Modular block code		
	Quantity	Quantity of Modular blocks		
A	Code	Description	Diagram	Dimension
	BY5	Spacing element. Element with ports PF3/8"		
	BY1	Element with ports PF1/2"		
	BY6	Element with ports PF3/4"		
	BY3	Element for solenoid valves CETOP 3 manifold block-01 parallel connection		
	BY2	Element for solenoid valves CETOP 3 manifold block-01 series connection		
	BB3	Element for solenoid valves CETOP 5 manifold block-03 parallel connection		
	BB2	Element for solenoid valves CETOP 5 manifold block-03 series connection		

A	Code	Description	Diagram	Dimension
	BY4	Element for solenoid valves CETOP 3 manifold block-01 with pilot operated check valve on A and B		
	BY7	Element for solenoid valves 3 manifold block-01 with pilot operated check valve on A		
	BY8	Element for solenoid valves CETOP 3 manifold block-01 with pilot operated check valve on B		P, T port = PF3/8" A, B port = PF3/8" Q max = 20 l/min
	CP1	Element CETOP 3 with check valve HCP-01-0		
	CP3	Element CETOP 5 with check valve HCP-03-0		
	RP1	Element CETOP 3 with relief valve on P HBP-01-C		
	RA1	Element CETOP 3 with relief valve on A HBA-01-C		
	RB1	Element CETOP 3 with relief valve on B HBB-01-C		Q max = 35 l/min

A	Code	Description	Diagram	Dimension
	RP3	Element CETOP 5 with relief valve on P HBP-03-C		Q max = 70 l/min
	RA3	Element CETOP 5 with relief valve on A HBA-03-C		
	RB3	Element CETOP 5 with relief valve on B HBB-03-C		
	PW1	Element CETOP 3 pilot operated check valve on A and B HPW-01-2		Q max = 35 l/min
	PA1	Element CETOP 3 pilot operated check valve on A HPA-01-2		
	PB1	Element CETOP 3 pilot operated check valve on B HPB-01-2		
	PW3	Element CETOP 5 pilot operated check valve on A and B HPW-03-2		Q max = 70 l/min
	PA3	Element CETOP 5 pilot operated check valve on A HPA-03-2		
	PB3	Element CETOP 5 pilot operated check valve on B HPB-03-2		

A	Code	Description	Diagram	Dimension
	TW1	Element CETOP 3 throttle and check valve on A and B HSW-01-X(Y) (X : Meter-out, Y : Meter-in)		
	TA1	Element CETOP 3 throttle and check valve on A HSA-01-X(Y) (X : Meter-out, Y : Meter-in)		
	TB1	Element CETOP 3 throttle and check valve on B HSB-01-X(Y) (X : Meter-out, Y : Meter-in)		
	TW3	Element CETOP 5 throttle and check valve A and B HSW-03-X(Y) (X : Meter-out, Y : Meter-in)		
	TA3	Element CETOP 5 throttle and check valve on A HSA-03-X(Y) (X : Meter-out, Y : Meter-in)		

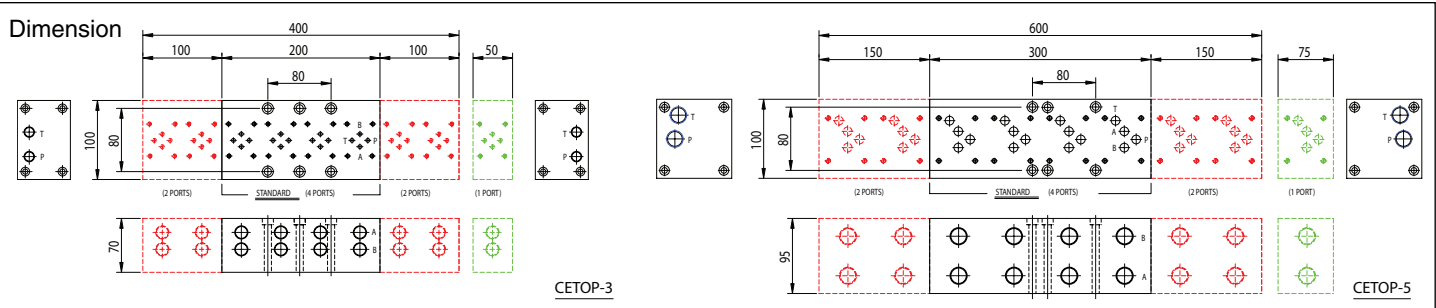
Note Please contact Hydro-Tek for different specification of modular block.

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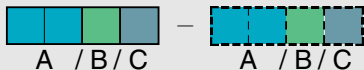
A / B / C / D

Multi-manifold block

A	Code	Multi-manifold block M				B	Code	4	5	6	7	8
	Type	CETOP 3	CETOP 5	D	Port size		1	2	3	4	5	6



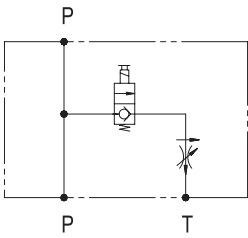
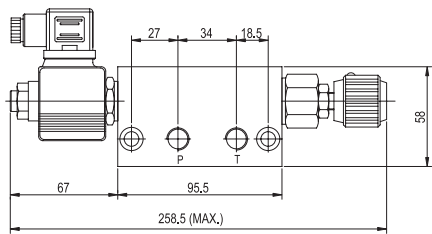
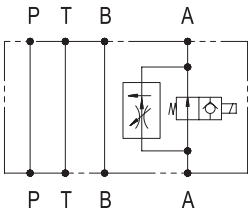
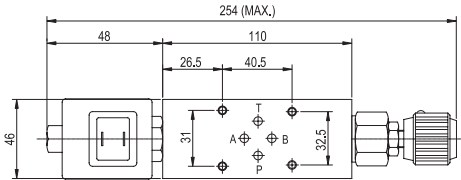
Note 1. Please use multi-manifold blocks for more than 3 ports.
2. Please contact Hydro-Tek for more than 8 ports multi-manifold block.



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		Modular block with cartridge solenoid valve code						
B	Code	1	2	3	4	5	6	7
	Voltage	DC 12V	DC 24V	AC 110V	AC 220V	AC 110V RAC	AC 220V RAC	AC 24V
C		Quantity of Modular blocks with cartridge solenoid valve						
A	Code	Description	Diagram	Dimension				
	D1	Element for double locking direct solenoid valve						
	DC	Element for normal close type direct solenoid valve						
	DY	Element for normal close type direct solenoid valve						
	D2	Element for double locking direct solenoid valve						
	DO	Element for two double locking direct solenoid valve						
	D3	Element for three double locking direct solenoid valve						

A	Code	Description	Diagram	Dimension
	SS	Single acting speed control (CETOP 3)		
A	DS	Double acting speed control (CETOP 3)		

11



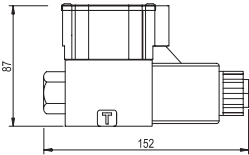
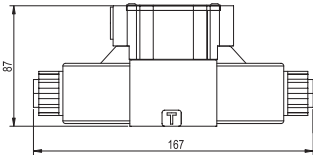
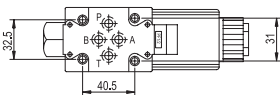
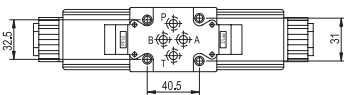
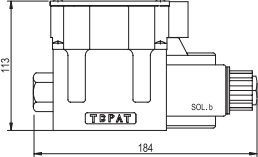
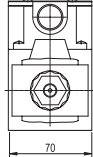
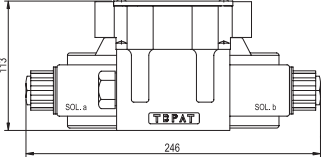
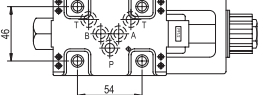
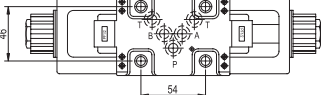
Directional valve

A	Code	Solenoid valve code			
---	------	---------------------	--	--	--

B	Code	1	2	3	4
	Voltage	DC 12V	DC 24V	AC 110V	AC 220V

C	Quantity	Quantity of Directional valves			
---	----------	--------------------------------	--	--	--

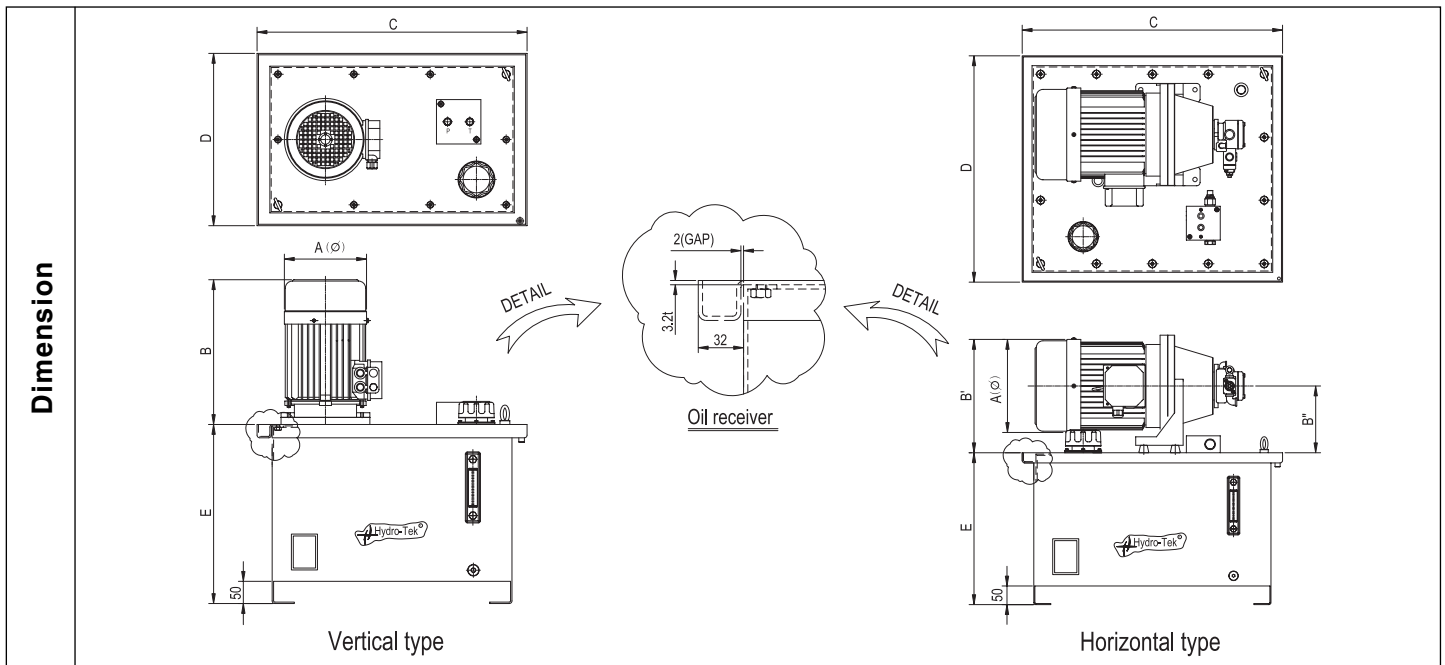
D	Code	Specification			
		Type	Working pressure (Max.)	Flow (Max.)	Connecting type
	1	CETOP 3	315 bar	63 l/min	Terminal box
	3	CETOP 5	315 bar	100 l/min	Terminal box

A	Code	Diagram	Solenoid valve series - CETOP 3 dimension			
	YA					
	YP					
	YC					
	YO					
	YT					
	HA		Solenoid valve series - CETOP 5 dimension			
	HP					
	HC					
	HO					
	HB					

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

Big power unit dimension

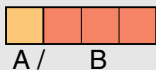
Motor							Tank (Square type oil tank)			
Phase	Frame	Kw	A(mm)	B(mm)	B'(mm)	B''(mm)	Working cap. l	C(mm)	D(mm)	E(mm)
3 phase motor	090	1.5 / 2.2	185	301 / 331	239.5	147	030	554	404	338
	112	4.0 / 5.5	230	356	305	190	050	659	514	398
	132	5.5 / 7.5	270	377 / 415	355	220	070	714	514	453
		9.2 / 11	270	441	355	220	070	714	514	453
1 phase motor	090	1.5	185	331	239.5	147	100	764	664	453
	100	2.2	205	406	292.5	190	120	864	664	453
	132	3.0 / 3.7	230	414	335	220	150	964	664	453



(Others) Hand pump

	Code	Description	Diagram	Dimension
A	HP	Single acting hand operated pump element		
	KP	Single acting hand operated pump element		

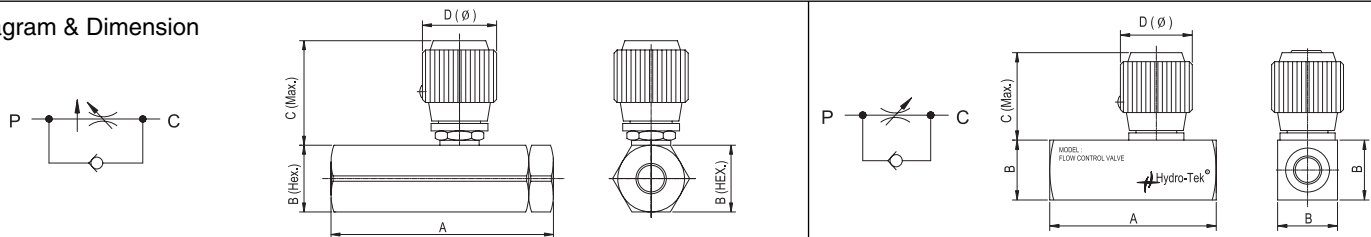
13



(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.)	250 bar	250 bar	250 bar	350 bar	350 bar	350 bar
	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

Diagram & Dimension



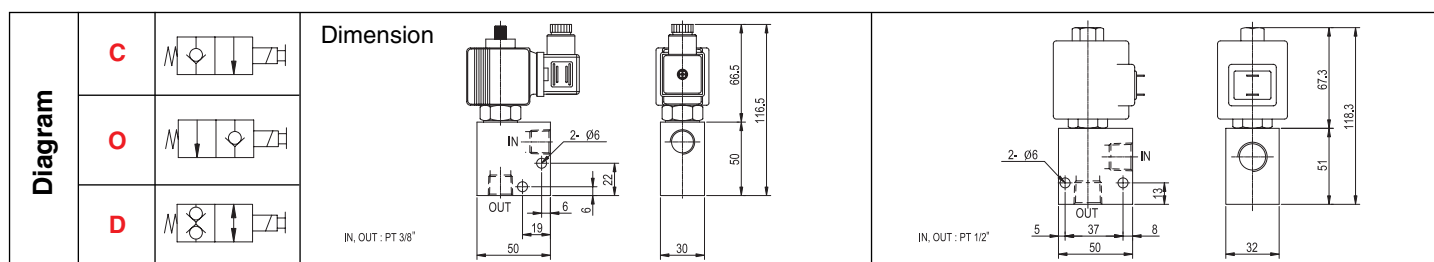
Note Please contact Hydro-Tek for different thread specification.

13



(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	6
	Voltage	DC12V	DC24V	AC 110V	AC 220V	AC 110V RAC	AC 220V RAC
D	Code	1			3		
	Specification	Cavity	Pressure (Max.)	Flow (Max.)	Cavity	Pressure (Max.)	Flow (Max.)
		08	250bar	40 l/min	10	350bar	68 l/min



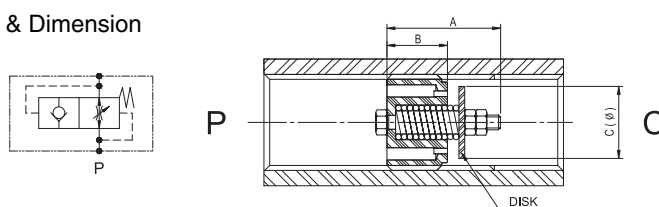
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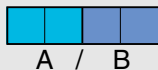
(Others) Burst valve

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

Diagram & Dimension



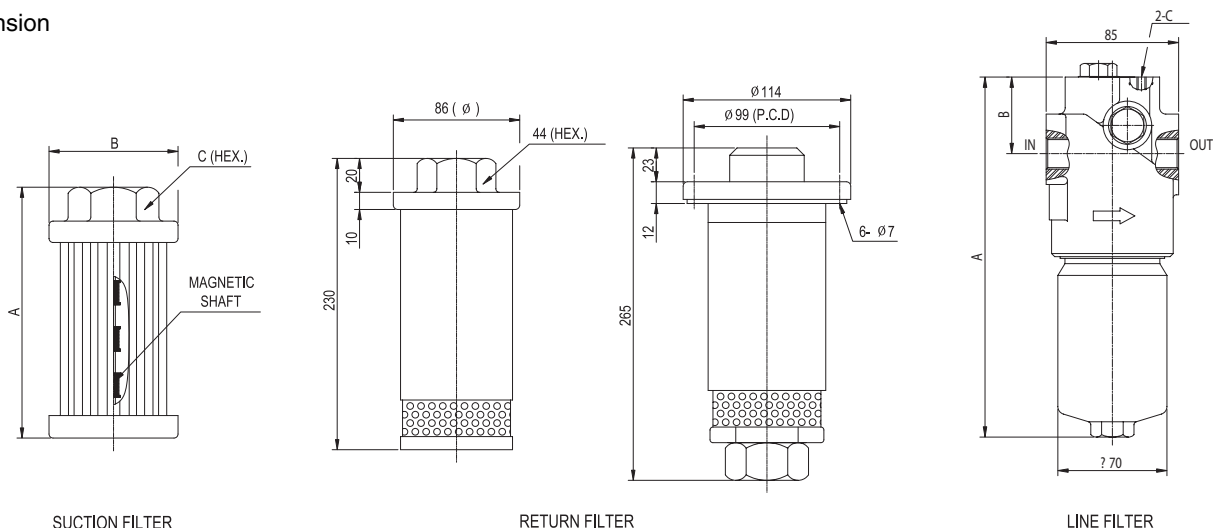
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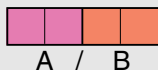
(Hydraulic Accessories) Filter

A	Code	Suction filter FS		Return filter FR		Line filter FL	
B	Code	01	03	01	03	01	03
	Thread (PT)	1/2	3/4	3/4	3/4	1/2	3/4
	Flow (ℓ/min)	22	56	40	40	55	95
	A (mm)	109	139	Note Please refer to dimensional drawing below.		219	319
	B (mm)	64	64			45	45
	C (mm)	36	36			5/16 UNC	5/16 UNC

Dimension



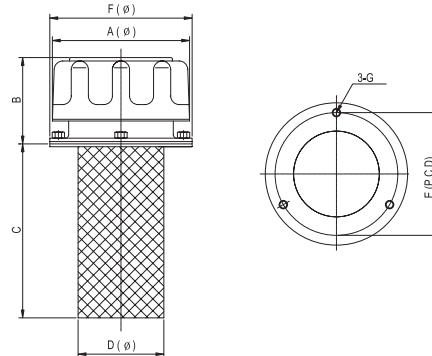
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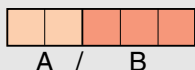
(Hydraulic Accessories) Air breather

A	Code	Air breather AB	
B	Code	01	03
	Filtration rating (μm)	40	40
	Flow (ℓ/min)	700	960
	A (mm)	80	100
	B (mm)	52	73
	C (mm)	150	100
	D (mm)	50	58
	E (mm)	73	88
	F (mm)	83	105
	G (mm)	M5	M6

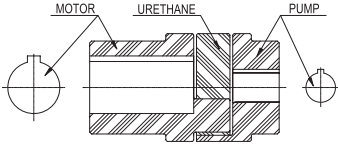
Dimension

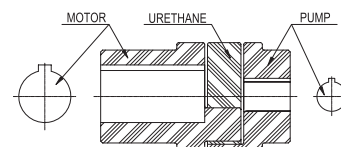


14



(Hydraulic Accessories) Coupling

A / B	Motor		Urethane		PUMP						Dimension
					Gear pump		Vane pump (12, 15, 20 ℓ/min)		Vane pump (30, 40 ℓ/min)		
	Code	Frame	Code	Frame	Code	Frame	Code	Frame	Code	Frame	
	MC	090	UR	090	G2	090	V1	090	V2	090	
	MC	112	UR	112	G2	112	V1	112	V2	112	
	MC	132	UR	132	G2	132	V1	132	V2	132	



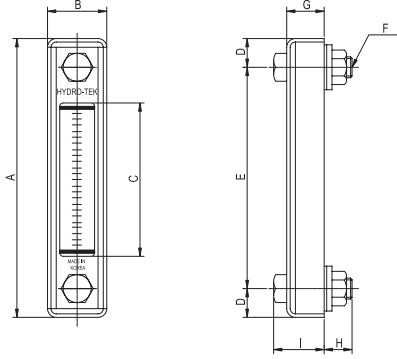
** Please refer to "Coding No.2" for detail dimension
(See page 3)

14

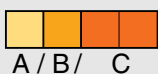


A / B

(Hydraulic Accessories) Oil gauge

A		Code		Oil gauge G	
B	Code	01	03	Dimension 	
	A (mm)	160	287		
	B (mm)	34	34		
	C (mm)	88	215		
	D (mm)	16.5	16.5		
	E (mm)	127	254		
	F (mm)	M12	M12		
	G (mm)	21.5	21.5		
	H (mm)	16	29		
	I (mm)	16	29		

14

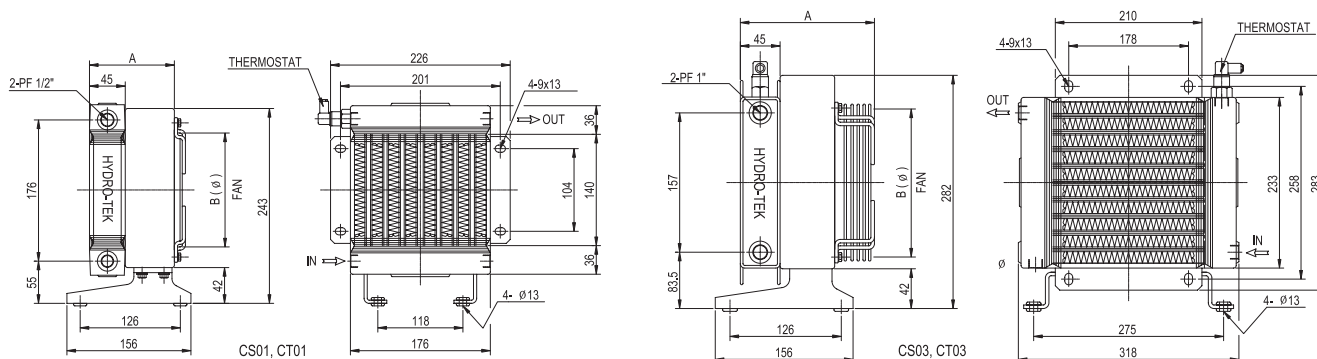


A / B / C

(Hydraulic Accessories) Cooler

A	Code		Cooler C								
B / C	Code		Specification								
	Phase	Type	Voltage	Frequency	RPM	Power	Q air	Cap.	IP	A (mm)	B (mm)
	S	01	230V	50/60Hz	2650/3000	50/46W	500 m³/h	5~40 l/min	44	243	125
		03	230V	50/60Hz	2600/2900	64/78W	890 m³/h	20~80 l/min	44	282	152
	T	01	230/400V	50/60Hz	2750/3100	45/43W	500 m³/h	5~40 l/min	44	243	125
		03	230/400V	50/60Hz	2600/2900	68/70W	890 m³/h	20~80 l/min	44	282	152

Dimension

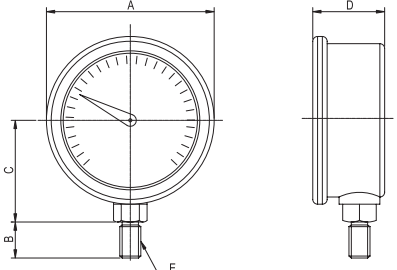


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A / B

(Hydraulic Accessories) Pressure gauge

A		Code		Pressure gauge P	
B	Code	01	03	Dimension 	
	Pressure (Max.)	250 bar	250 bar		
	A (mm)	63	100		
	B (mm)	12	20		
	C (mm)	55	87		
	D (mm)	30	56		
	E (mm)	1/4	1/2		

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