



HPM FIRST STAR GROUP LTD

HYDRAULIC MOTORS AND STEERING UNITS



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Hydraulic orbit motors&Brake

Axial Spool Valve Distribution Type

BMM Series (Danfoss OMM,M+S EPMM/MLHM,Eaton J)	001
BMP/BMPH Series (Danfoss OMP/DH,M+S EPM/MLHP,Eaton H)	007
BMR/BMRS Series (Danfoss OMR/DS,M+S EPRM/MLHR,Eaton S)	015
BMH Series (Danfoss OMH,M+S EPHM/MLHH)	025

Disk Valve Distribution Type

BMS/BMSE/BMSY Series (Danfoss OMS,M+S EPMS/MLHS,Eaton 2000)	029
BMT/BMTE Series (Danfoss OMT,M+S EPMT/MLHT,Eaton 4000).....	047
BMV Series (Danfoss OMV,M+S EPMV/MLHV).....	057
BME2 Series (Packer TE)	062
BMJ Series (Packer TJ)	065
BMER Series (White RE 500/501, Packer TG)	067
BMK6 Series (Eaton 6000)	072

Hydraulic brake

Bk2 Series Hydraulic Brake (White SB.930,M+S ELB)	077
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Hydraulic Piston motors

IAM Series Radial Piston Hydraulic Motor

Series: H1 H2 H3 H34 H5 H6 (Intermot IAM)	079
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GM Series Swivelling Cylinder Hydraulic Motor

Series: GM05 GM1 GM2 GM3 GM4 GM5 GM6 (SAI GM)	092
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Hydraulic Steering units&Accessory

109 (Danfoss OSPM)	106
101(Danfoss OSPB)	107
101S(Danfoss OSPC)	109
BZZ	111
Drawing Example	113

BMM Series hydraulic orbit motor



Replace with Danfoss OMM Series, M+S EPMM/MLHM Series, Eaton J Series

Parameters

Type		BMM -8	BMM -12.5	BMM -20	BMM -32	BMM -40	BMM -50
Displacement (cm ³ /rev.)		8.2	12.9	19.9	31.6	39.8	50.3
Max. speed (rpm)	cont.	1950	1550	1000	630	500	400
	int.	2450	1940	1250	800	630	500
Max. torque (N•m)	cont.	11	16	25	40	45	46
	int.	15	23	35	57	70	88
	peak	21	33	51	64	82	100
Max. output (K W)	cont.	1.8	2.4	2.4	2.4	2.2	1.8
	int.	2.6	3.2	3.2	3.2	3.2	3.2
Max. pressure drop (Mpa)	cont.	10	10	10	10	9	7
	int.	14	14	14	14	14	14
	peak	20	20	20	16	16	16
Max. flow (L/min)	cont.	16	20	20	20	20	20
	int.	20	25	25	25	25	25
Weight (kg)		1.9	2	2.1	2.2	2.3	2.4

Selection

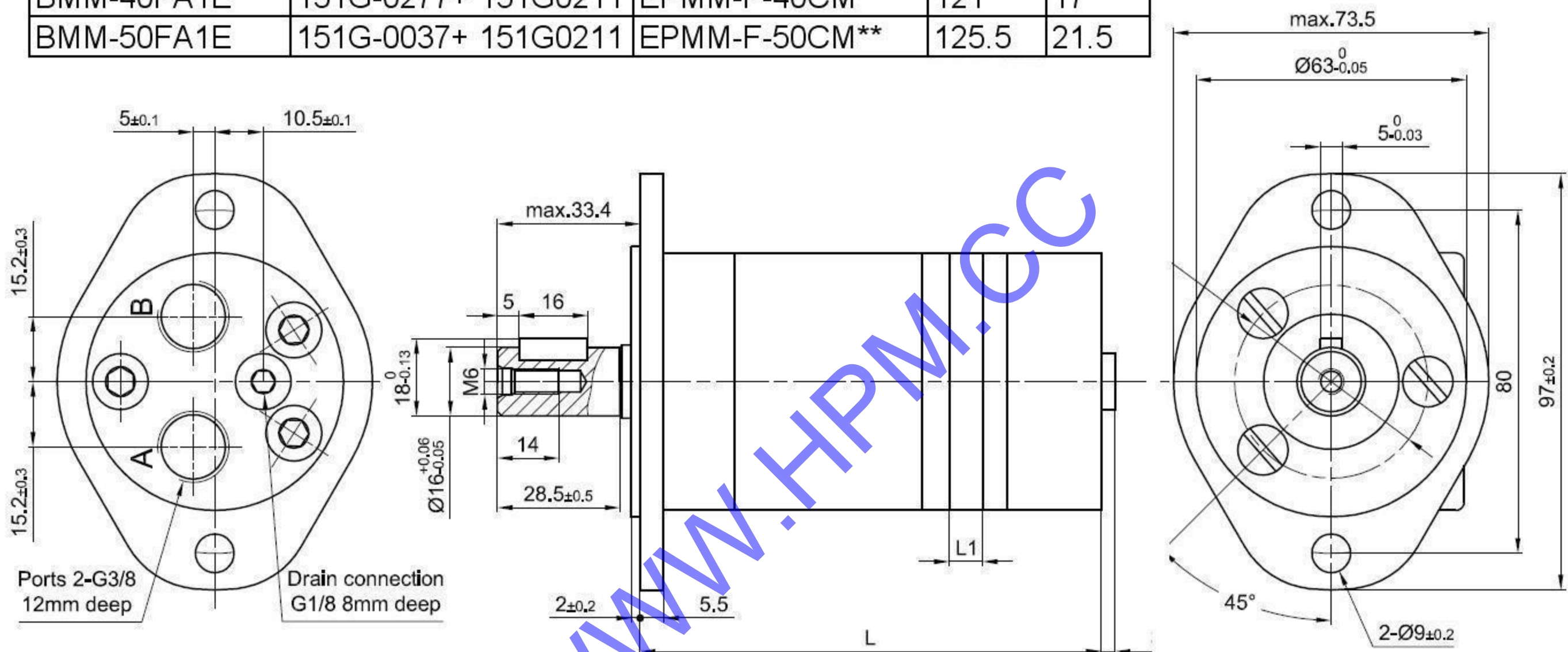
1	2	3	4
Series	Displacement	Flange	Output shaft
BMM	8	Code M: 3-M6 Circle-flange, pilot Ø31.5 ×5 Code U: 3-1/4-28UNF Circle-flange, pilot Ø31.5×5 Code F: 2-Ø9 Oval-flange, pilot Ø63×2	Code A: Shaft Dia Ø16, Parallel key 5 ×5×16 Code B: Shaft Dia Ø15.875 Parallel key 4.8×4.8×19.05 Code C: Shaft Dia Ø16.5, involute Spline shaft B17× 14, DIN5482
	12.5		
	20		
	32		
	40		
	50		
5	6	7	8
Port and drain port	Rotation direction	Paint	Unusually function
Code E: G3/8, G1/8 Code U: 9/16-18UNF, 3/8-24UNF, Code 1E: End port G3/8, G1/8 Code 1U: End port 9/16- 18UNF, 3/8-24UNF	Omit: Standard Code R: Opposite	Omit: Blue Code 00: No paint Code B: Black Code S: Silver Grey	Omit: Standard Code 0: No case drain

Replace with Danfoss OMM Series, M+S EPMM/MLHM Series, Eaton J Series

Popular model drawing

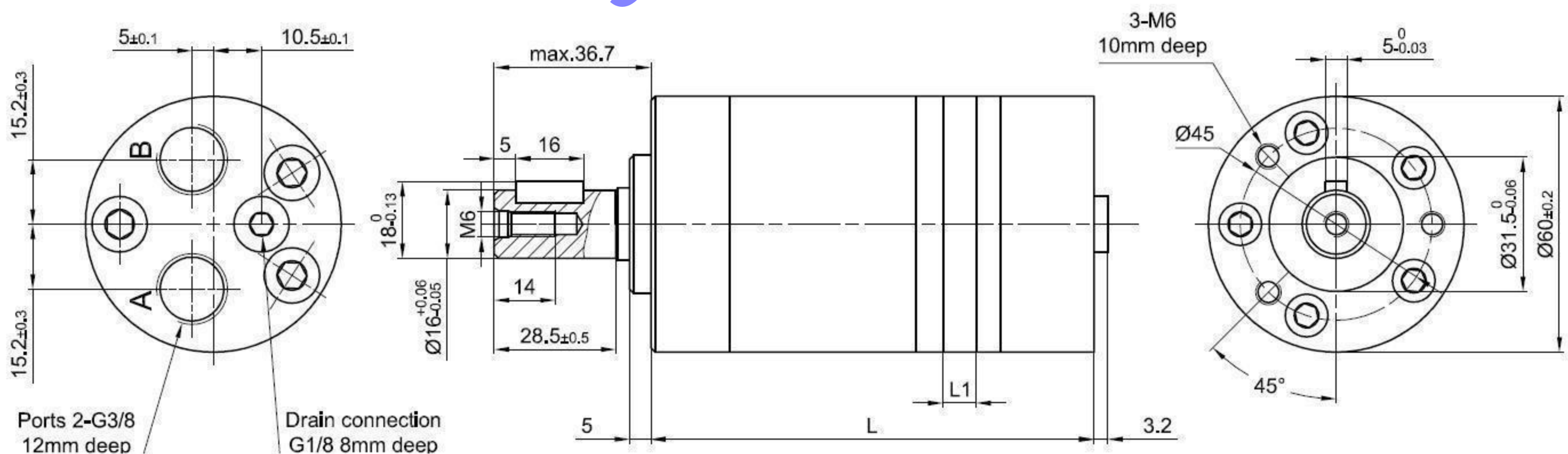
BMM-x-F-A-1E

HPM Model	Danfoss Model	M+S Model	L mm	L1 mm
BMM-8FA1E	151G-0040+ 151G0211	EPMM-F-8CM**	107.5	3.5
BMM-12.5FA1E	151G-0001+ 151G0211	EPMM-F-12.5CM**	109.5	5.5
BMM-20FA1E	151G-0002+ 151G0211	EPMM-F-20CM**	112.5	8.5
BMM-32FA1E	151G-0003+ 151G0211	EPMM-F-32CM**	117.5	13.5
BMM-40FA1E	151G-0277+ 151G0211	EPMM-F-40CM**	121	17
BMM-50FA1E	151G-0037+ 151G0211	EPMM-F-50CM**	125.5	21.5



BMM-x-M-A-1E

HPM Model	Danfoss Model	M+S Model	L mm	L1 mm
BMM-8MA1E	151G-0040	EPMM-8CM**	104	3.5
BMM-12.5MA1E	151G-0001	EPMM-12.5CM**	106	5.5
BMM-20MA1E	151G-0002	EPMM-20CM**	109	8.5
BMM-32MA1E	151G-0003	EPMM-32CM**	114	13.5
BMM-40MA1E	151G-0277	EPMM-40CM**	117.5	17
BMM-50MA1E	151G-0037	EPMM-50CM**	122	21.5



BMM Series hydraulic orbit motor

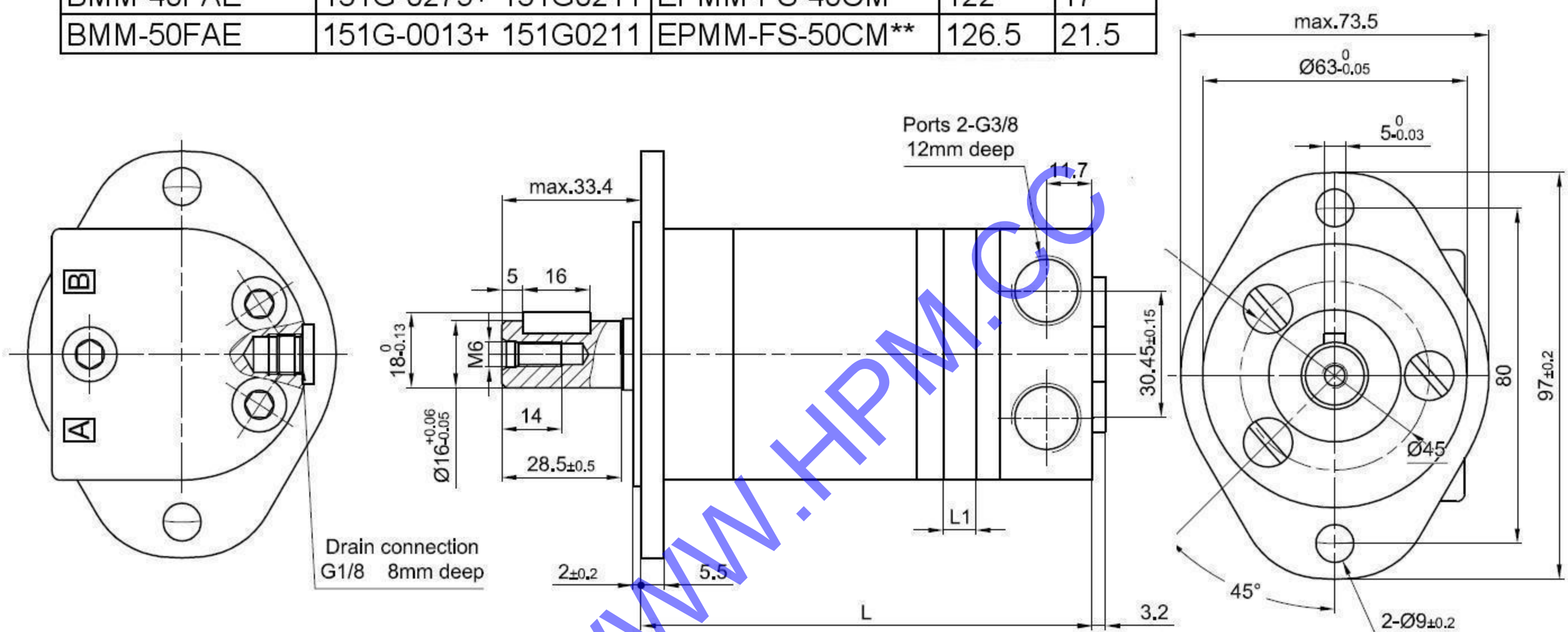


Replace with Danfoss OMM Series, M+S EPMM/MLHM Series, Eaton J Series

Popular model drawing

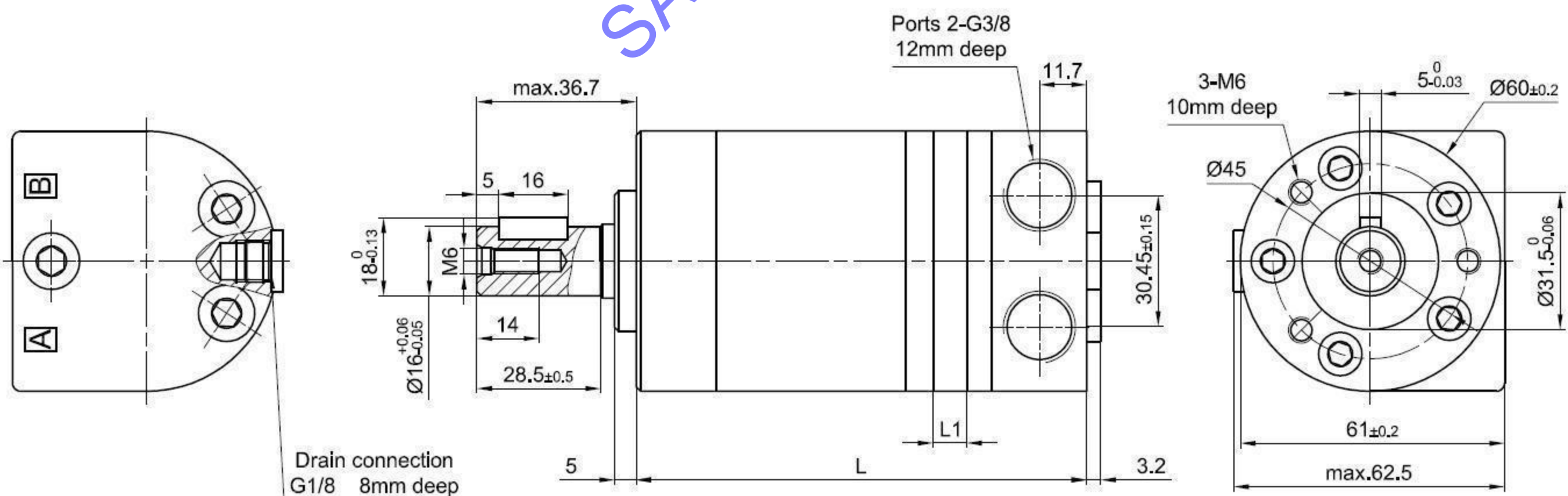
BMM-x-F-A-E

HPM Model	Danfoss Model	M+S Model	L mm	L1 mm
BMM-8FAE	151G-0041+ 151G0211	EPMM-FS-8CM**	108.5	3.5
BMM-12.5FAE	151G-0004+ 151G0211	EPMM-FS-12.5CM**	110.5	5.5
BMM-20FAE	151G-0005+ 151G0211	EPMM-FS-20CM**	113.5	8.5
BMM-32FAE	151G-0006+ 151G0211	EPMM-FS-32CM**	118.5	13.5
BMM-40FAE	151G-0279+ 151G0211	EPMM-FS-40CM**	122	17
BMM-50FAE	151G-0013+ 151G0211	EPMM-FS-50CM**	126.5	21.5



BMM-x-M-A-E

HPM Model	Danfoss Model	M+S Model	L mm	L1 mm
BMM-8MAE	151G-0041	EPMM-S-8CM**	105	3.5
BMM-12.5MAE	151G-0004	EPMM-S-12.5CM**	107	5.5
BMM-20MAE	151G-0005	EPMM-S-20CM**	110	8.5
BMM-32MAE	151G-0006	EPMM-S-32CM**	115	13.5
BMM-40MAE	151G-0279	EPMM-S-40CM**	118.5	17
BMM-50MAE	151G-0013	EPMM-S-50CM**	123	21.5

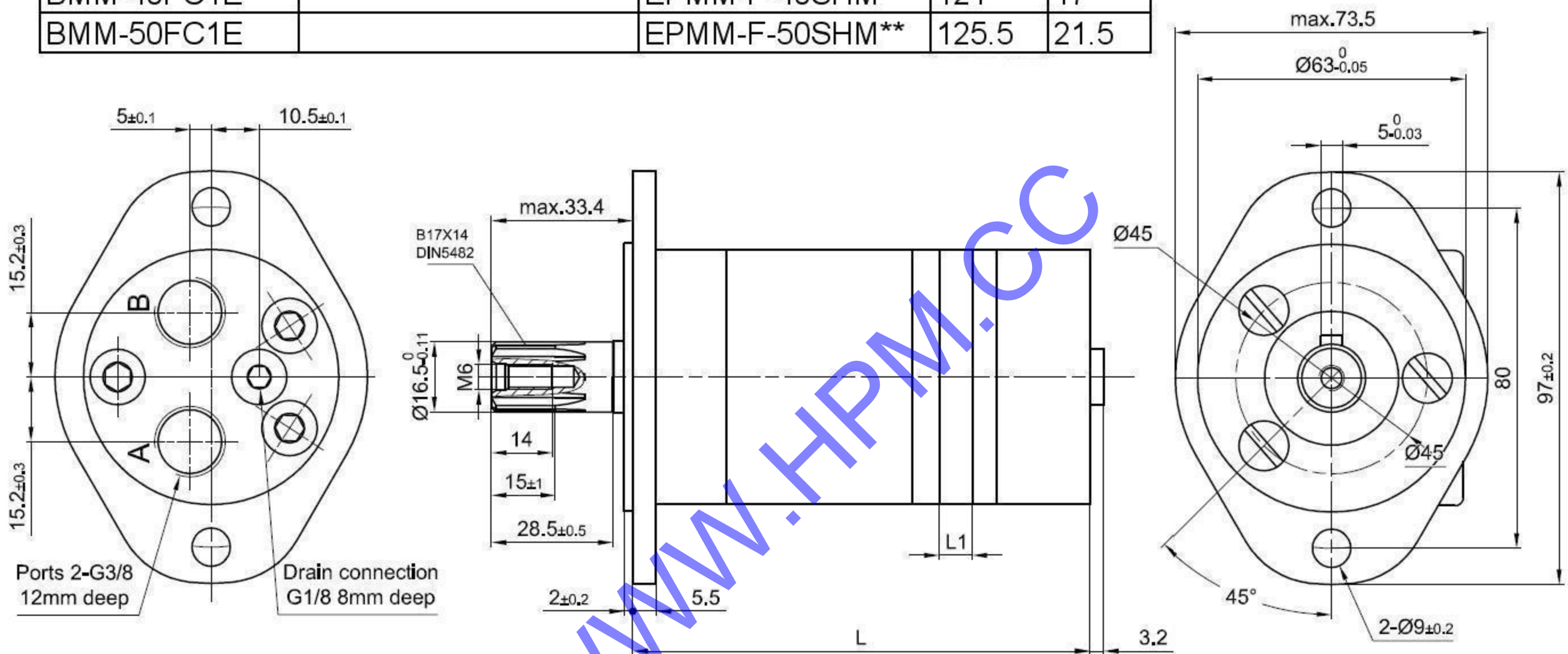


Replace with Danfoss OMM Series, M+S EPMM/MLHM Series, Eaton J Series

Popular model drawing

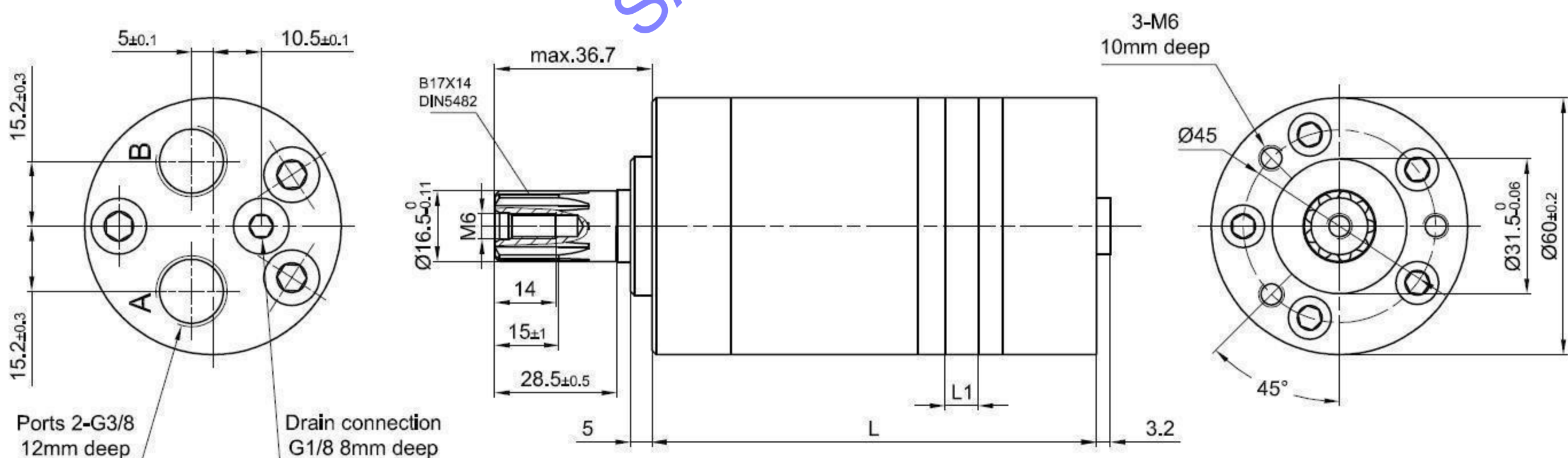
BMM-x-FC1E

HPM Model	Danfoss Model	M+S Model	L mm	L1 mm
BMM-8FC1E	151G-0046+ 151G0211	EPMM-F-8SHM**	107.5	3.5
BMM-12.5FC1E	151G-0024+ 151G0211	EPMM-F12.5SHM**	109.5	5.5
BMM-20FC1E	151G-0025+ 151G0211	EPMM-F-20SHM**	112.5	8.5
BMM-32FC1E	151G-0026+ 151G0211	EPMM-F-32SHM**	117.5	13.5
BMM-40FC1E		EPMM-F-40SHM**	121	17
BMM-50FC1E		EPMM-F-50SHM**	125.5	21.5



BMM-x-MC1E

HPM Model	Danfoss Model	M+S Model	L mm	L1 mm
BMM-8MC1E	151G-0046	EPMM-8SHM**	104	3.5
BMM-12.5MC1E	151G-0024	EPMM-12.5SHM**	106	5.5
BMM-20MC1E	151G-0025	EPMM-20SHM**	109	8.5
BMM-32MC1E	151G-0026	EPMM-32SHM**	114	13.5
BMM-40MC1E		EPMM-40SHM**	117.5	17
BMM-50MC1E		EPMM-50SHM**	122	21.5



BMM Series hydraulic orbit motor

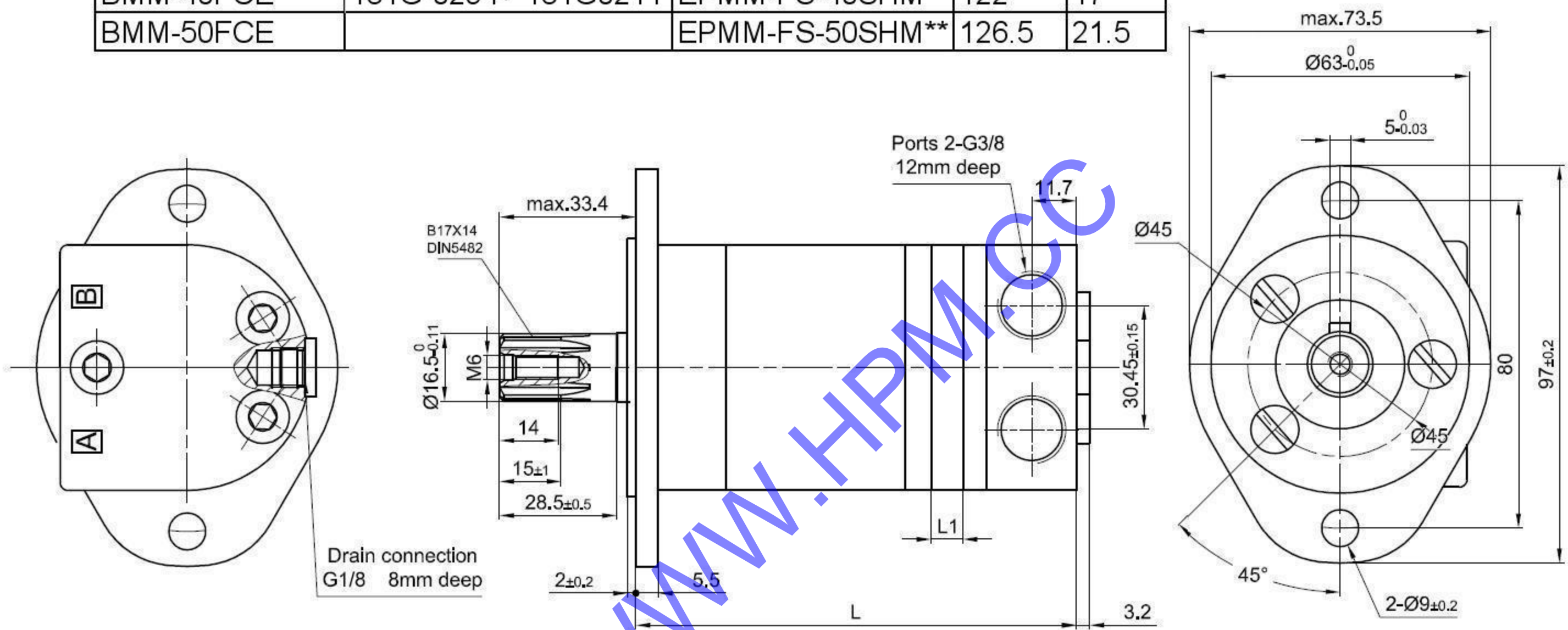


Replace with Danfoss OMM Series, M+S EPMM/MLHM Series, Eaton J Series

Popular model drawing

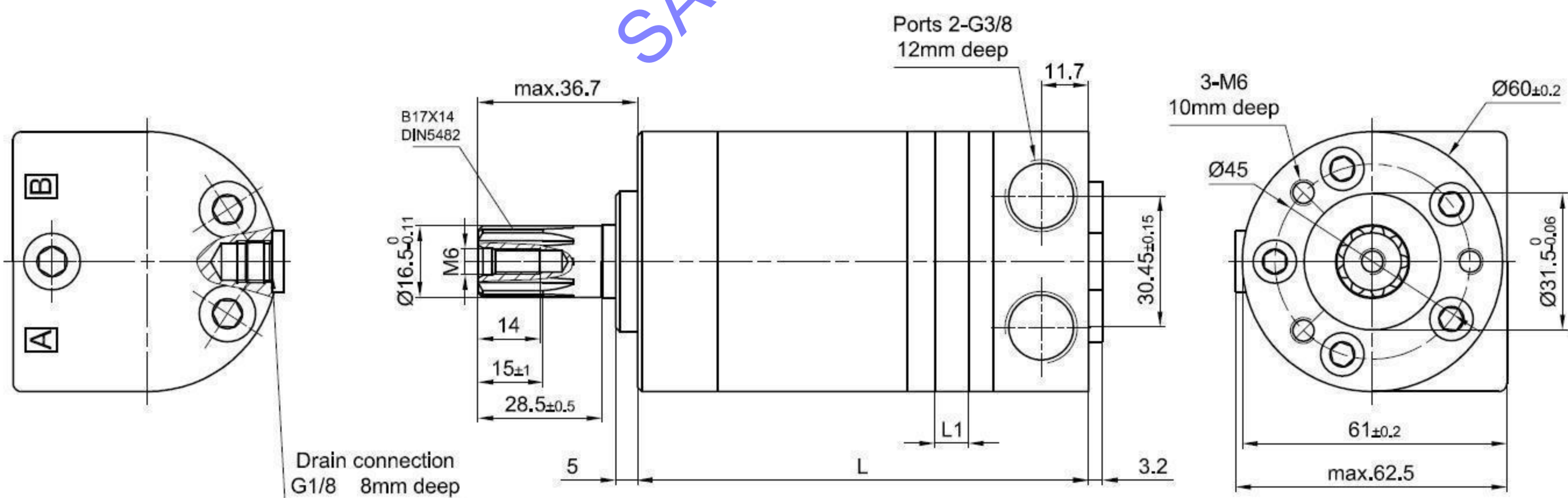
BMM-x-FCE

HPM Model	Danfoss Model	M+S Model	L mm	L1 mm
BMM-8FCE	151G-0047+ 151G0211	EPMM-FS-8SHM**	108.5	3.5
BMM-12.5FCE	151G-0027+ 151G0211	EPMM-FS12.5SHM*	110.5	5.5
BMM-20FCE	151G-0028+ 151G0211	EPMM-FS-20SHM**	113.5	8.5
BMM-32FCE	151G-0029+ 151G0211	EPMM-FS-32SHM**	118.5	13.5
BMM-40FCE	151G-0294+ 151G0211	EPMM-FS-40SHM**	122	17
BMM-50FCE		EPMM-FS-50SHM**	126.5	21.5



BMM-x-MCE

HPM Model	Danfoss Model	M+S Model	L mm	L1 mm
BMM-8MCE	151G-0047	EPMM-S-8SHM**	105	3.5
BMM-12.5MCE	151G-0027	EPMM-S-12.5SHM**	107	5.5
BMM-20MCE	151G-0028	EPMM-S-20SHM**	110	8.5
BMM-32MCE	151G-0029	EPMM-S-32SHM**	115	13.5
BMM-40MCE	151G-0294	EPMM-S-40SHM**	118.5	17
BMM-50MCE		EPMM-S-50SHM**	123	21.5

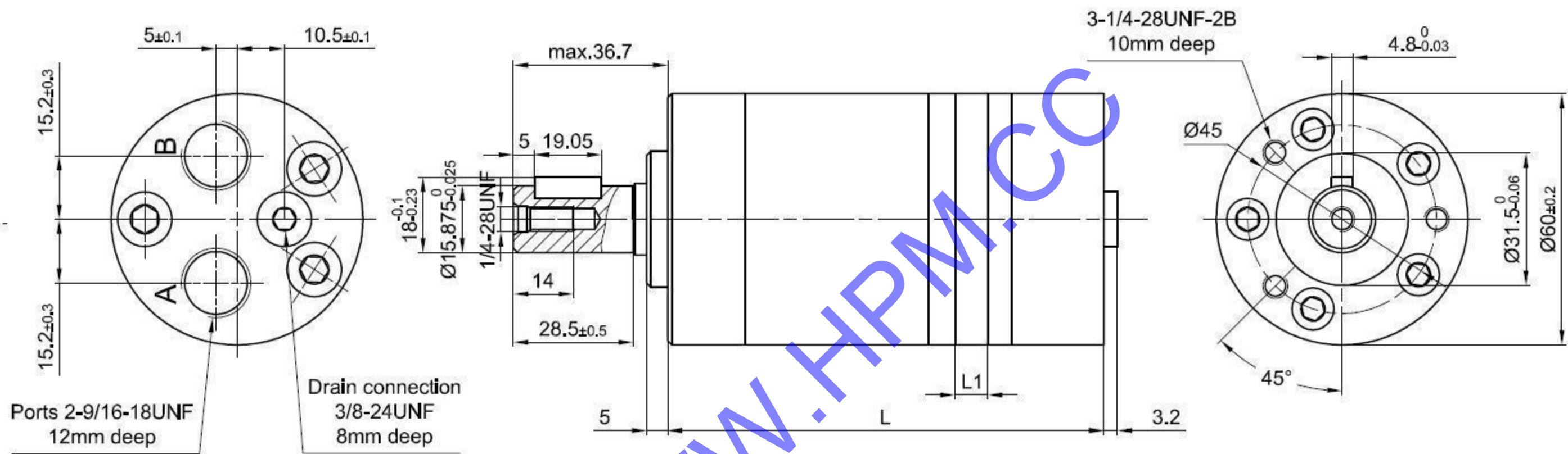


Replace with Danfoss OMM Series, M+S EPMM/MLHM Series, Eaton J Series

Popular model drawing

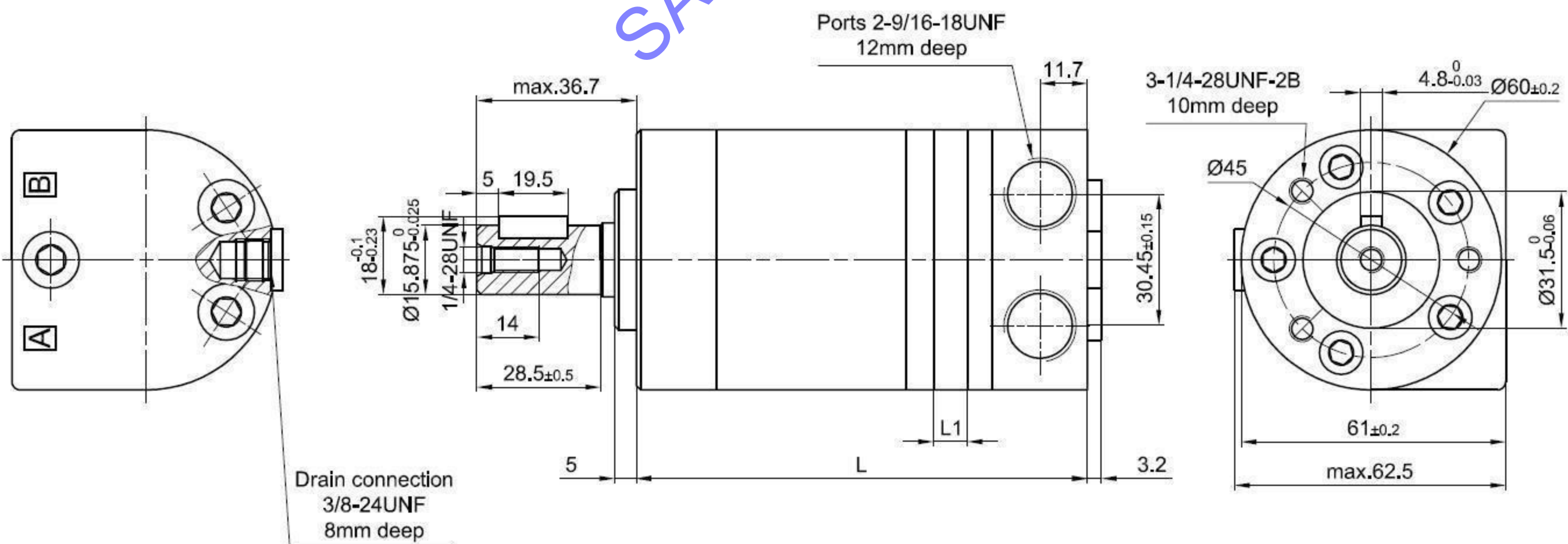
BMM-x-UB1U

HPM Model	Danfoss Model	M+S Model	L mm	L1 mm
BMM-8UB1U	151G-0048	MLHM-8C7**	104	3.5
BMM-12.5UB1U	151G-0031	MLHM-12.5C7**	106	5.5
BMM-20UB1U	151G-0032	MLHM-20SC7**	109	8.5
BMM-32UB1U	151G-0033	MLHM-32SC7**	114	13.5
BMM-40UB1U		MLHM-40SC7**	117.5	17
BMM-50UB1U	151G-5032	MLHM-50SC7**	122	21.5



BMM-x-UBU

HPM Model	Danfoss Model	M+S Model	L mm	L1 mm
BMM-8UBU	151G-0049	MLHM-8C4**	105	3.5
BMM-12.5UBU	151G-0034	MLHM-12.5C4**	107	5.5
BMM-20UBU	151G-0035	MLHM-20SC4**	110	8.5
BMM-32UBU	151G-0036	MLHM-32SC4**	115	13.5
BMM-40UBU		MLHM-40SC4**	118.5	17
BMM-50UBU	151G-0094	MLHM-50SC4**	123	21.5



BMP Series hydraulic orbit motor



BMP-Replace with Danfoss OMP/DH Series, M+S EPM/MLHP Series

BMPH-Replace with Eaton H Series

BMPW-Wheel flange

Parameters

Type		BMP BMPH -36	BMP BMPH -50	BMP BMPH -80	BMP BMPH -100	BMP BMPH -125	BMP BMPH -160	BMP BMPH -200	BMP BMPH -250	BMP BMPH -315	BMP BMPH -400	BMP BMPH -500
Displacement		36	51.7	77.7	96.2	120.2	157.2	194.5	240.3	314.5	389.5	486.5
Max. speed (rpm)	cont.	1500	1150	770	615	490	383	310	250	192	155	120
	int.	1650	1450	960	770	615	475	385	310	240	190	150
Max. torque (N·m)	cont.	55	100	146	182	236	302	360	380	375	360	385
	int.	76	128	186	227	290	370	440	460	555	525	560
	peak	96	148	218	264	360	434	540	550	650	680	680
Max. output (Kw)	cont.	8	10	10	11	10	10	10	8.5	7	6	5
	int.	11.5	12	12	13	12	12	12	10.5	8.5	7	6
Max. pressure drop (MPa)	cont.	12.5	14	14	14	14	14	14	11	9	7	6
	int.	16.5	17.5	17.5	17.5	17.5	17.5	17.5	14	14	10.5	9
	peak	22.5	22.5	22.5	22.5	22.5	22.5	22.5	18	16	14	12
Max. flow (L/min)	cont.	55	60	60	60	60	60	60	60	60	60	60
	int.	60	75	75	75	75	75	75	75	75	75	75
Weight(kg)		5.6	5.6	5.7	5.9	6	6.2	6.4	6.6	6.9	7.4	8

Selection

1	2	3	4
Series	Displacement	Flange	Output shaft
BMP	50	Code 2: 2-Ø13.5 Rhomb-flange , pilot Ø82.5×8 Code 4: 4-Ø13.5 Rhomb-flange , pilot Ø82.5×8 Code H4: 4-3/8-16 Square-flange , pilot Ø44.4×2.8 Code H5: 4-M10 Square-flange , pilot Ø44.4×2.8	Code A: Shaft Dia Ø25 , Parallel key 8×7×32 Code B: Shaft Dia Ø32 , Parallel key 10×8×45 Code C: Shaft Dia Ø25.4 , Parallel key 6.35×6.35×31.75 Code R: Shaft Dia Ø25.4 Short shaft , Parallel key 6.35×6.35×31.75 Code E: Shaft Dia Ø25.4 , Splined tooth SAE 6B Code F: Shaft Dia Ø31.75 Short shaft , Splined tooth 14-DP12/24 Code FD: Shaft Dia Ø31.75 Long shaft , Splined tooth 14-DP12/24 Code T: Cone shaft Dia Ø 28.56 , Parallel key 5×5×14 Code T3: Cone shaft Dia Ø31.75 , Parallel key 7.96×7.96×25.4
	80		
	100		
	125		
	160		
	200		
	250		
	315		
400			
5	6	7	8
Port and drain port	Rotation direction	Paint	Unusually function
Code D: G1/2 Manifold mount 4*M8,G1/4 Code M: M22*1.5 Manifold mount 4*M8,M14*1.5 Code S: 7/8-14 O-ring Manifold 4*5/16-18UNC,7/16-20UNF Code P: 1/2-14NPTF Manifold 4*5/16-18UNC,7/16-20UNF Code R: PT(RC) 1/2 Manifold 4*M8,PT(Rc)1/4	Omit: Standard Code R: Opposite	Omit:Blue Code 00: No paint Code B:Black Code S:Silver Grey	Omit:Standard Code 0:No case drain Code N:Big radial force Code F:Free running Code LS:Low speed

Selection

1	2	3	4
Series	Displacement	Flange	Output shaft
BMPH	50	Code H2: 2-Ø13.5 Rhomb-flange , pilot Ø82.5×2.8 Code:H4: 4-3/8-16 Square-flange , pilot Ø44.4×2.8 Code H5: 4-M10 Square-flange , pilot Ø44.4×2.8 Code H6: 4-Ø13.5 Rhomb-flange , pilot Ø82.5×2.8	Code A: Shaft Dia Ø25 , Parallel key 8×7×32 Code D: Shaft Dia Ø22.22 ,Parallel key 6.35×6.35×25.4 Code H: Shaft Dia Ø25.4, pin hole Ø10.3 Code I: Shaft Dia Ø22.22, splined tooth 13-DP16/32 Code J: Shaft Dia Ø25 ,Parallel key 7×7×32 Code K: Shaft Dia Ø25.4, woodruff key Ø25.4×6.35 Code P: Shaft Dia Ø25 ,Parallel key 8×7×28 Code S: Shaft Dia Ø25.4 , splined tooth SAE 6B Code T2: Cone shaft Dia Ø25.4 , woodruff key Ø25.4×6.35
	80		
	100		
	125		
	160		
	200		
	250		
	315		
	400		
5	6	7	8
Port and drain port	Rotation direction	Paint	Unusually function
Code G: G1/2, G1/4 Code S : 7/8-14 O-ring ,7/16-20UNF Code P: 1/2-14 NPTF, 7/16-20UNF Code T: 3/4-16 O-ring, 7/16-20UNF Code R: PT(RC) 1/2 Manifold 4*M8,PT(Rc)1/4 Code B4: Ø10 O-ring manifold 4x5/16-18UNC,7/16-20UNF Code B5: Ø10 O-ring manifold 4xM8,7/16-20UNF	Omit: Standard Code R: Opposite	Omit: Blue Code 00: No paint Code B: Black Code S: Silver Grey	Omit: Standard Code 0: No case drain Code N: Big radial force Code F: Free running Code LS: Low speed

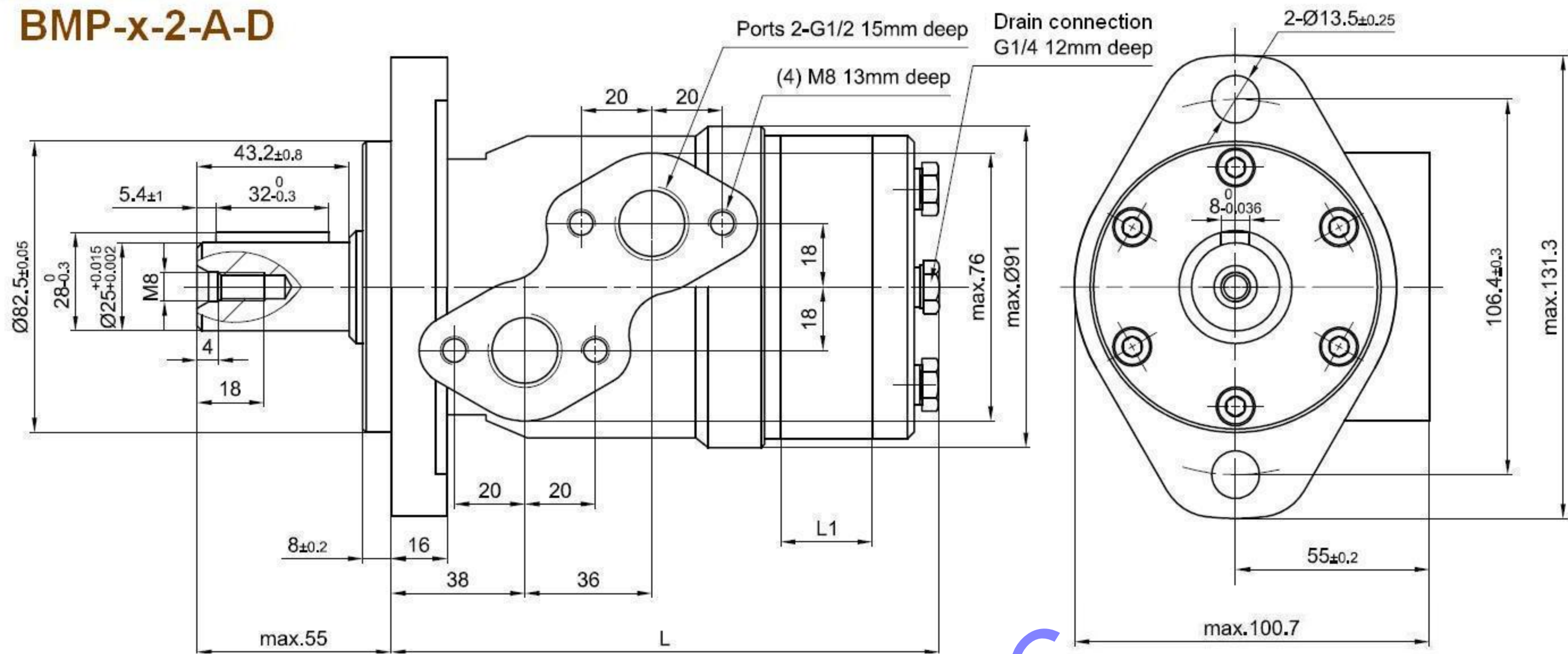
Selection

1	2	3	4
Series	Displacement	Flange	Output shaft
BMPW	50	Omit: Wheel-flange pilot Ø80×7.5	Code A: Shaft Dia Ø25 , Parallel key 8×7×32 Code C: Shaft Dia Ø25.4 , Parallel key 6.35×6.35×31.75 Code E: Shaft Dia Ø25.4,Splined key SAE 6B Code T: Shaft Dia Ø28.56 Cone shaft , Parallel key 5×5×14
	80		
	100		
	125		
	160		
	200		
	250		
	315		
	400		
5	6	7	8
Port and drain port	Rotation direction	Paint	Unusually function
Code G: G1/2, G1/4 Code S : 7/8-14 O-ring ,7/16-20UNF Code M : M22*1.5 ,M14*1.5	Omit: Standard Code R: Opposite	Omit: Blue Code 00: No paint Code B: Black Code S: Silver Grey	Omit: Standard Code 0: No case drain Code N: Big radial force

BMP Series hydraulic orbit motor

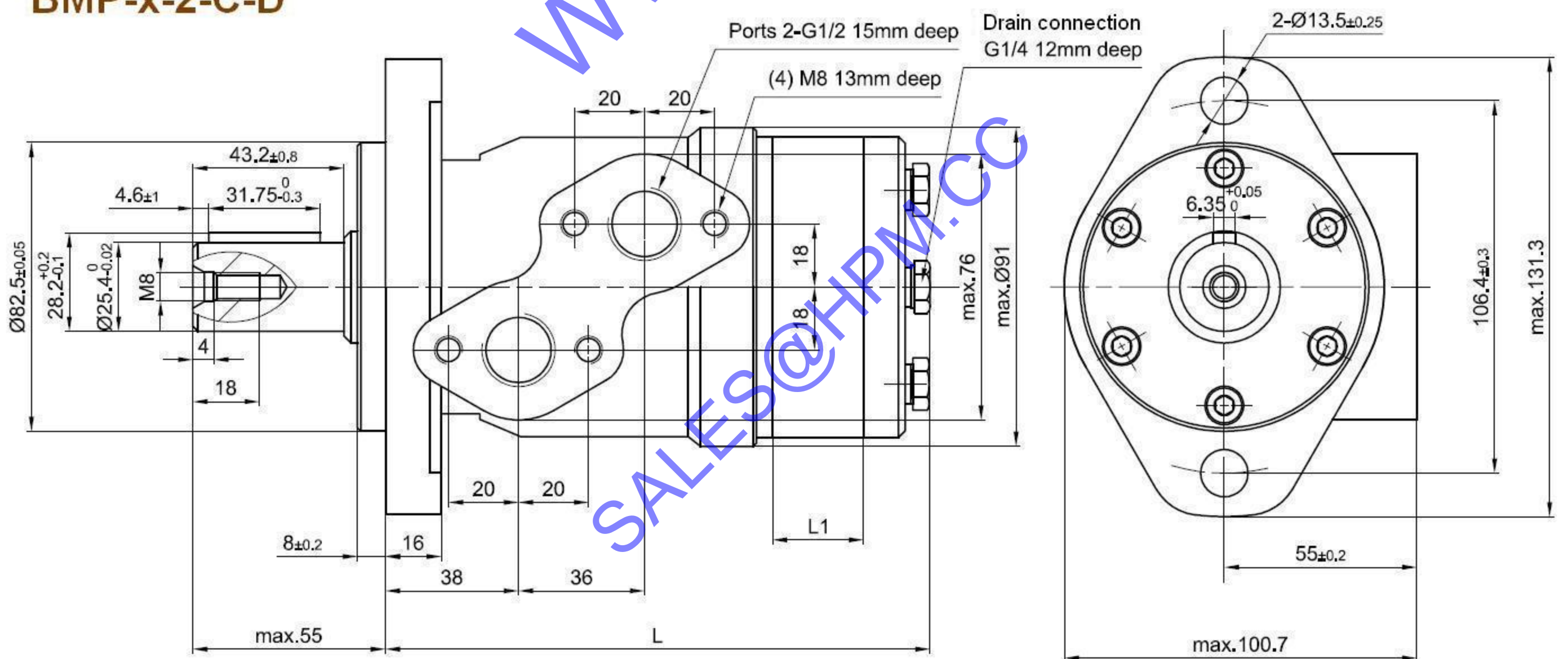
Popular model drawing

BMP-x-2-A-D



HPM Model	Danfoss Model	Danfoss Model	M+S Model	L mm	L1 mm
BMP-32-2AD**	151-0641	151-0341	EPM-32CD**	137	7
BMP-50-2AD**	151-0610	151-0310	EPM-50CD**	137	7
BMP-80-2AD**	151-0611	151-0311	EPM-80CD**	140.5	10.5
BMP-100-2AD**	151-0612	151-0312	EPM-100CD**	143	13
BMP-125-2AD**	151-0613	151-0313	EPM-125CD**	146	16
BMP-160-2AD**	151-0614	151-0314	EPM-160CD**	151	21
BMP-200-2AD**	151-0615	151-0315	EPM-200CD**	157	26
BMP-250-2AD**	151-0616	151-0316	EPM-250CD**	162	32
BMP-315-2AD**	151-0617	151-0317	EPM-315CD**	172	42
BMP-400-2AD**	151-0618	151-0318	EPM-400CD**	182	52

BMP-x-2-C-D



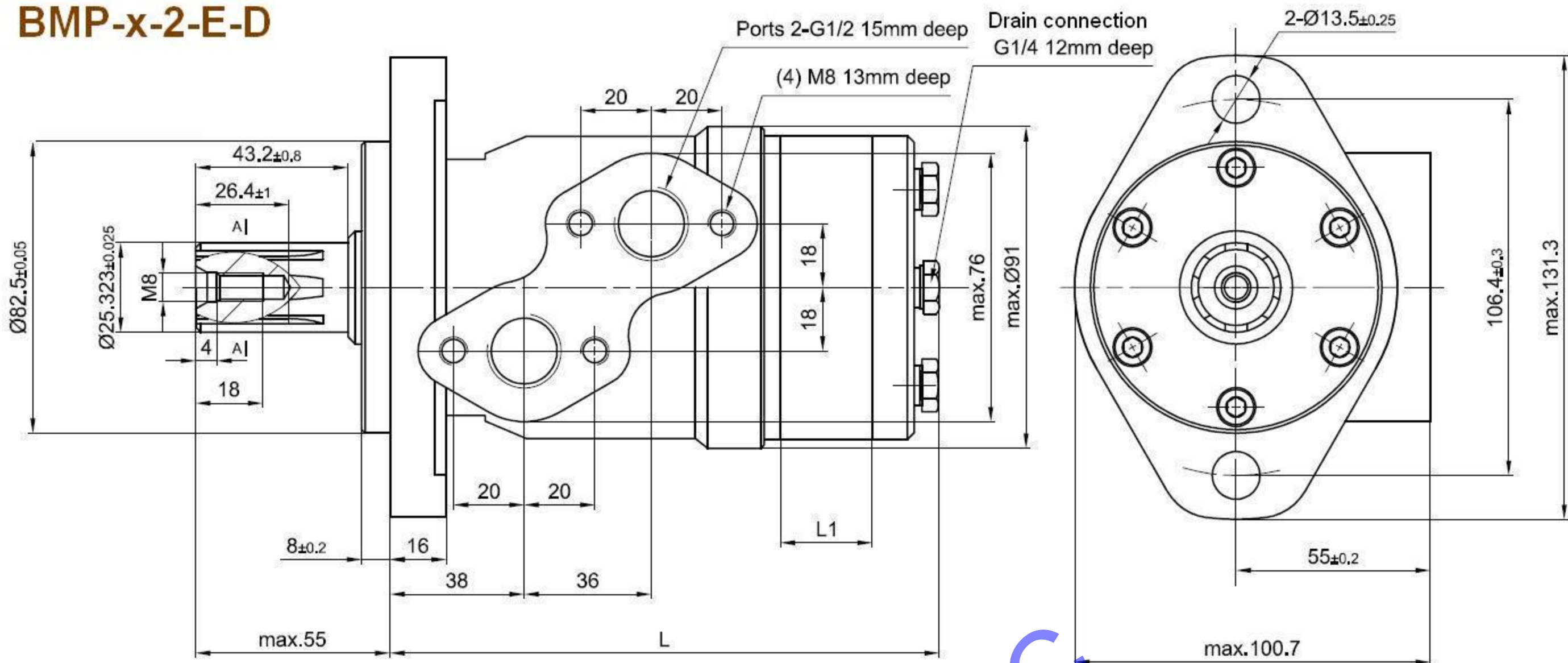
HPM Model	Danfoss Model	Danfoss Model	M+S Model	L mm	L1 mm
BMP-50-2CD**	151-0600	151-0300	EPM-50COD**	137	7
BMP-80-2CD**	151-0601	151-0301	EPM-80COD**	140.5	10.5
BMP-100-2CD**	151-0602	151-0302	EPM-100COD**	143	13
BMP-125-2CD**	151-0603	151-0303	EPM-125COD**	146	16
BMP-160-2CD**	151-0604	151-0304	EPM-160COD**	151	21
BMP-200-2CD**	151-0605	151-0305	EPM-200COD**	157	26
BMP-250-2CD**	151-0606	151-0306	EPM-250COD**	162	32
BMP-315-2CD**	151-0607	151-0307	EPM-315COD**	172	42
BMP-400-2CD**	151-0608	151-0308	EPM-400COD**	182	52

BMP Series hydraulic orbit motor



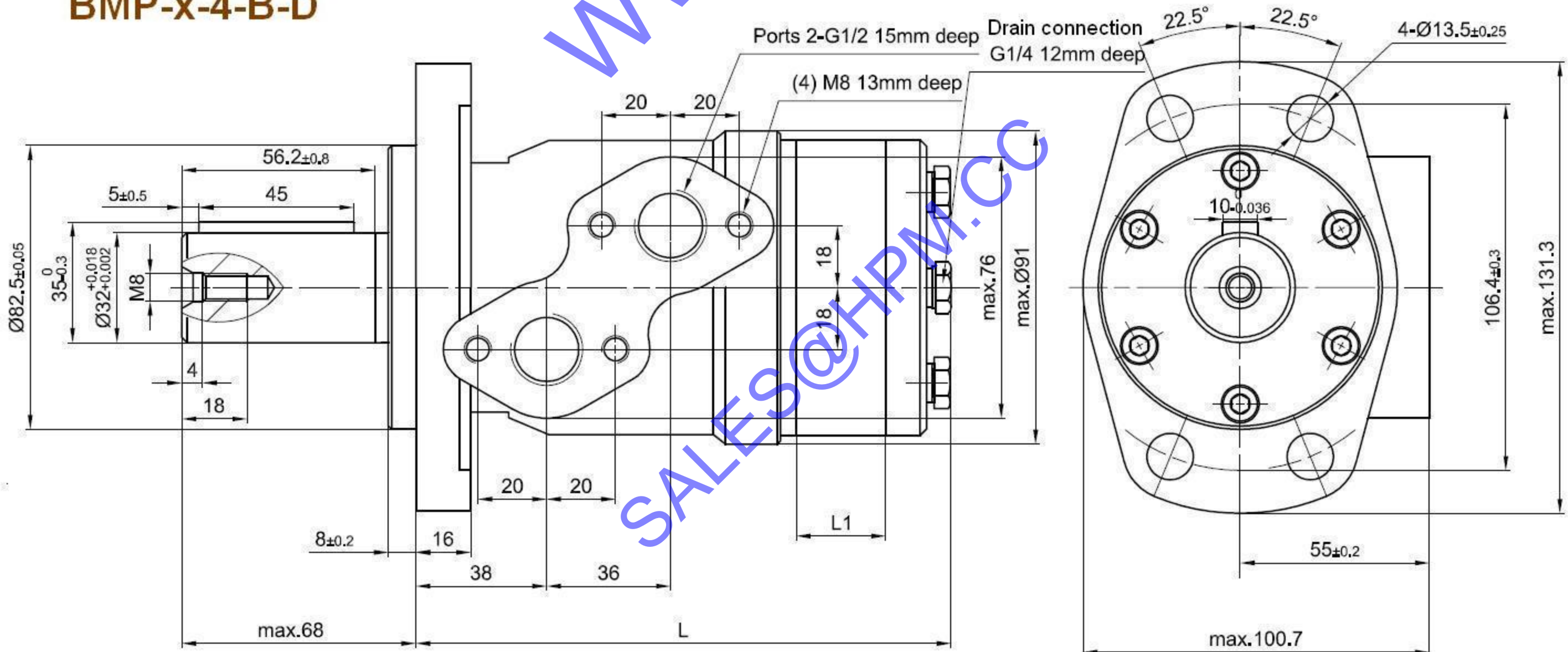
Popular model drawing

BMP-x-2-E-D



HPM Model	Danfoss Model	Danfoss Model	M+S Model	L mm	L1 mm
BMP-50-2ED**	151-0630	151-0330	EPM-50SHD**	137	7
BMP-80-2ED**	151-0631	151-0331	EPM-80SHD**	140.5	10.5
BMP-100-2ED**	151-0632	151-0332	EPM-100SHD**	143	13
BMP-125-2ED**	151-0633	151-0333	EPM-125SHD**	146	16
BMP-160-2ED**	151-0634	151-0334	EPM-160SHD**	151	21
BMP-200-2ED**	151-0635	151-0335	EPM-200SHD**	157	26
BMP-250-2ED**	151-0636	151-0336	EPM-250SHD**	162	32
BMP-315-2ED**	151-0637	151-0337	EPM-315SHD**	172	42
BMP-400-2ED**	151-0638	151-0338	EPM-400SHD**	182	52

BMP-x-4-B-D



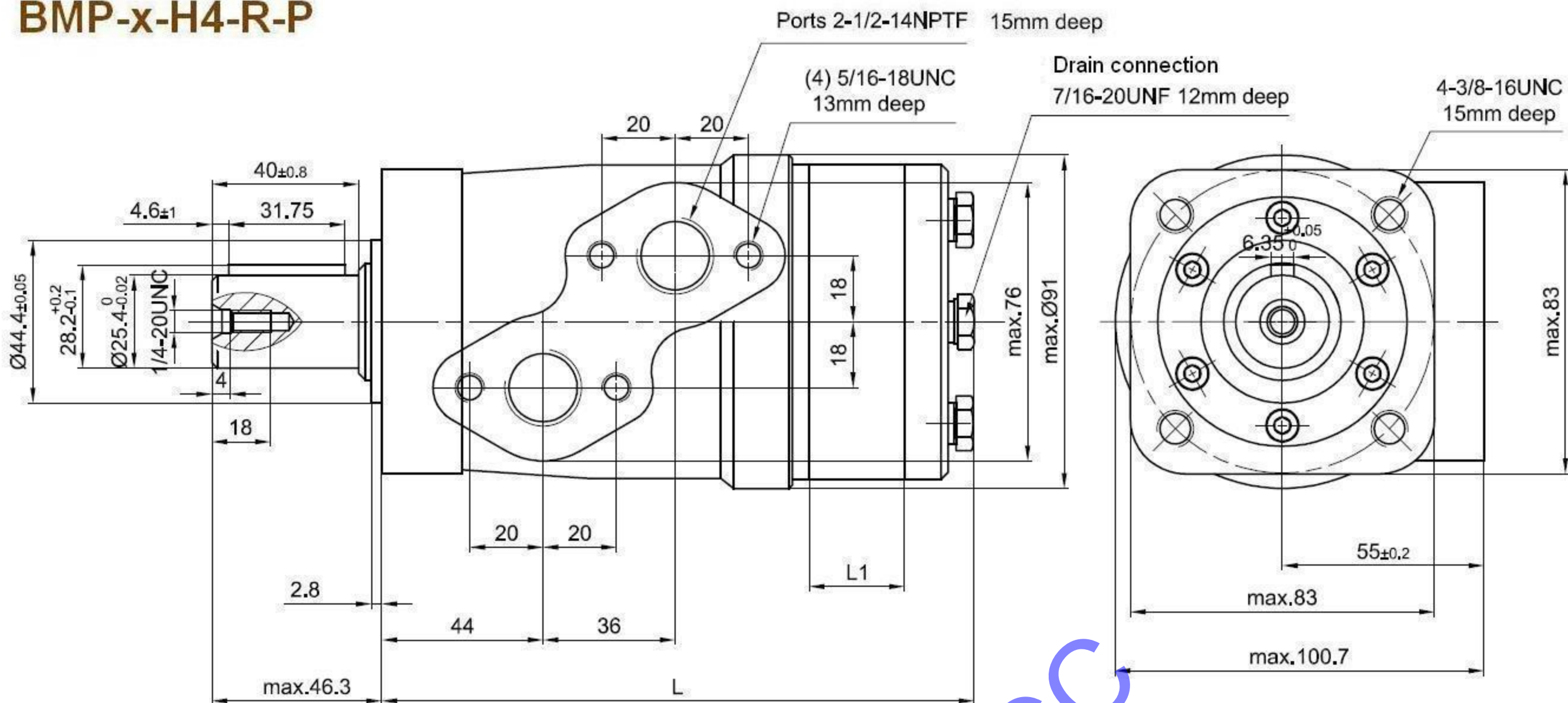
HPM Model	Danfoss Model	M+S Model	L mm	L1 mm
BMP-50-4BD**	151-5001	EPM-F50CBD**	137	7
BMP-80-4BD**	151-5002	EPM-F80CBD**	140.5	10.5
BMP-100-4BD**	151-5003	EPM-F100CBD**	143	13
BMP-125-4BD**	151-5004	EPM-F125CBD**	146	16
BMP-160-4BD**	151-5005	EPM-F160CBD**	151	21
BMP-200-4BD**	151-5006	EPM-F200CBD**	157	26
BMP-250-4BD**	151-5007	EPM-F250CBD**	162	32
BMP-315-4BD**	151-5008	EPM-F315CBD**	172	42
BMP-400-4BD**	151-5009	EPM-F400CBD**	182	52

BMP Series hydraulic orbit motor



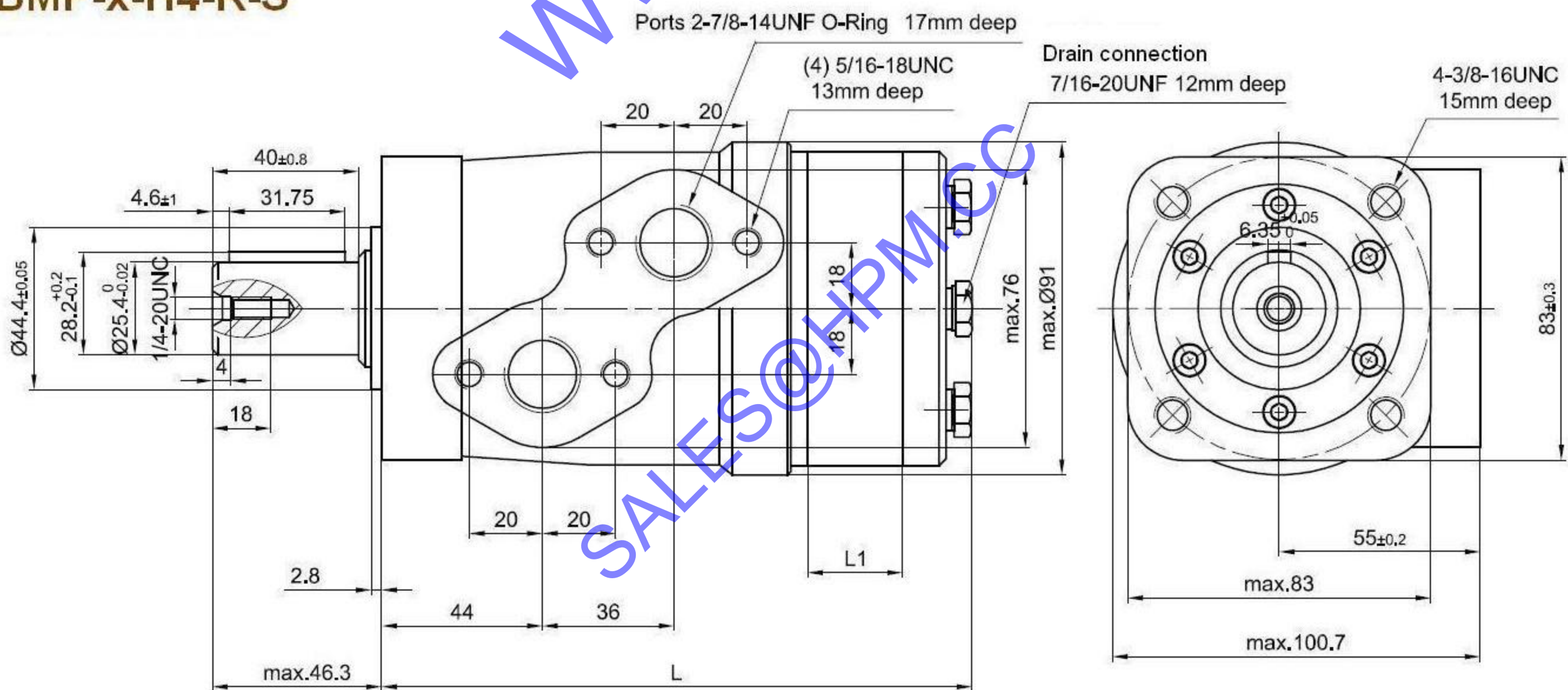
Popular model drawing

BMP-x-H4-R-P



HPM Model	Danfoss Model	M+S Model	L mm	L1 mm
BMP-50-H4-R-P**	151-7021	MLHP-Q50C5**	137	7
BMP-80-H4-R-P**	151-7022	MLHP-Q80C5**	140.5	10.5
BMP-100-H4-R-P**	151-7023	MLHP-Q100C5**	143	13
BMP-125-H4-R-P**	151-7024	MLHP-Q125C5**	146	16
BMP-160-H4-R-P**	151-7025	MLHP-Q160C5**	151	21
BMP-200-H4-R-P**	151-7026	MLHP-Q200C5**	157	26
BMP-250-H4-R-P**	151-7027	MLHP-Q250C5**	162	32
BMP-315-H4-R-P**	151-7028	MLHP-Q315C5**	172	42
BMP-400-H4-R-P**	151-7029	MLHP-Q400C5**	182	52

BMP-x-H4-R-S

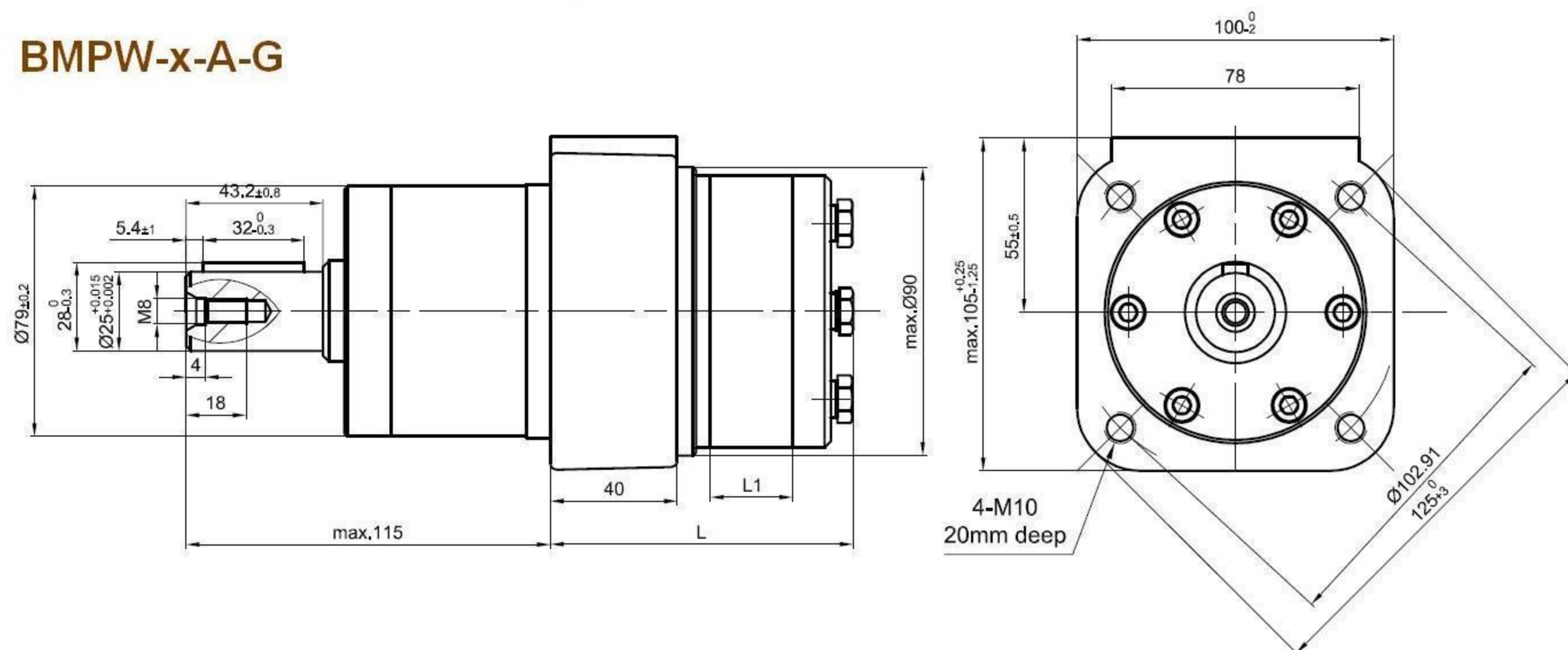


HPM Model	Danfoss Model	M+S Model	L mm	L1 mm
BMP-50-H4-R-S**	151-7061	MLHP-Q50C4**	137	7
BMP-80-H4-R-S**	151-7062	MLHP-Q80C4**	140.5	10.5
BMP-100-H4-R-S**	151-7063	MLHP-Q100C4**	143	13
BMP-125-H4-R-S**	151-7064	MLHP-Q125C4**	146	16
BMP-160-H4-R-S**	151-7065	MLHP-Q160C4**	151	21
BMP-200-H4-R-S**	151-7066	MLHP-Q200C4**	157	26
BMP-250-H4-R-S**	151-7067	MLHP-Q250C4**	162	32
BMP-315-H4-R-S**	151-7068	MLHP-Q315C4**	172	42
BMP-400-H4-R-S**	151-7069	MLHP-Q400C4**	182	52

BMP Series hydraulic orbit motor

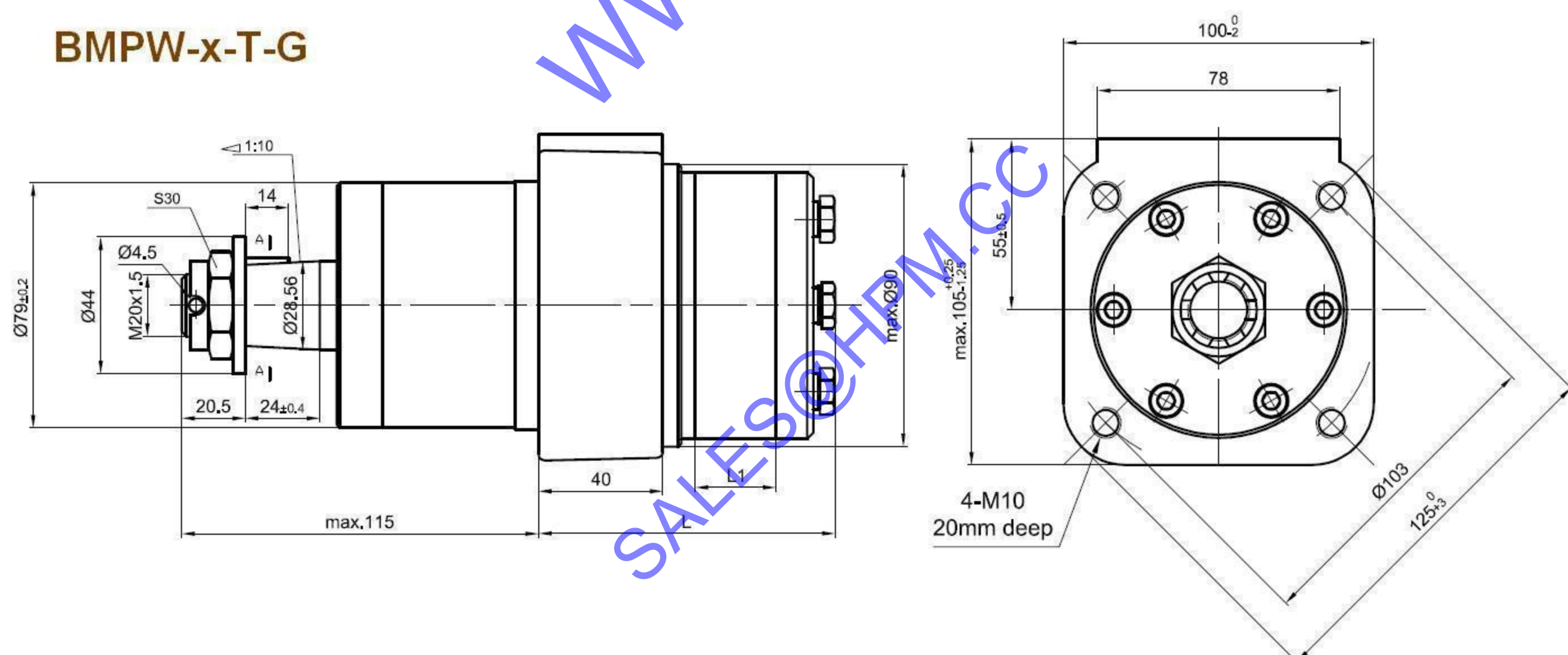
Popular model drawing

BMPW-x-A-G



HPM Model	Danfoss Model	M+S Model	L mm	L1 mm
BMPW-50-A-G**	151-7101	EPM-W50CD**	81	7
BMPW-80-A-G**	151-7102	EPM-W80CD**	84.5	10.5
BMPW-100-A-G**	151-7103	EPM-W100CD**	87	13
BMPW-125-A-G**	151-7104	EPM-W125CD**	90	16
BMPW-160-A-G**	151-7105	EPM-W160CD**	95	21
BMPW-200-A-G**	151-7106	EPM-W200CD**	100	26
BMPW-250-A-G**	151-7107	EPM-W250CD**	106	32
BMPW-315-A-G**	151-7108	EPM-W315CD**	116	42
BMPW-400-A-G**	151-7109	EPM-W400CD**	126	52
BMPW-500-A-G**		EPM-W500CD**	139	62

BMPW-x-T-G



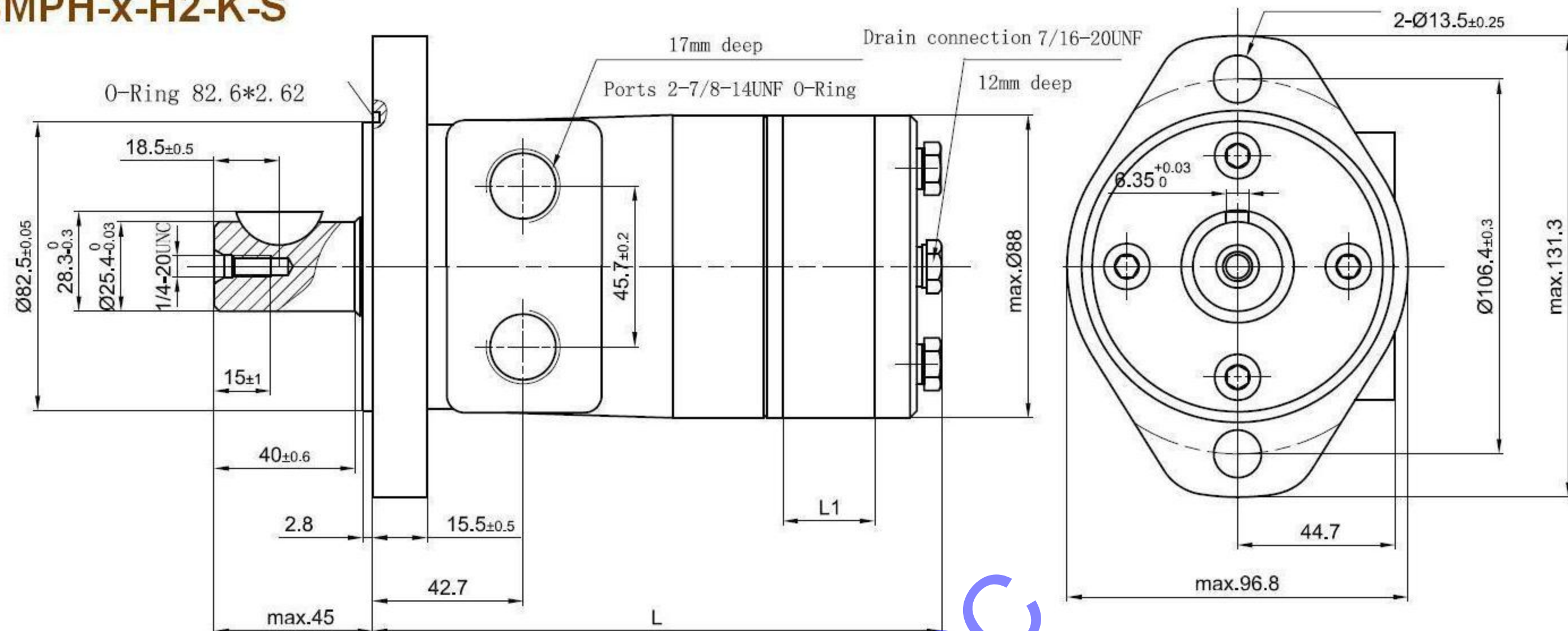
HPM Model	Danfoss Model	M+S Model	L mm	L1 mm
BMPW-50-T-G**	151-5301	EPM-W50KD**	81	7
BMPW-80-T-G**	151-5302	EPM-W80KD**	84.5	10.5
BMPW-100-T-G**	151-5303	EPM-W100KD**	87	13
BMPW-125-T-G**	151-5304	EPM-W125KD**	90	16
BMPW-160-T-G**	151-5305	EPM-W160KD**	95	21
BMPW-200-T-G**	151-5306	EPM-W200KD**	100	26
BMPW-250-T-G**	151-5307	EPM-W250KD**	106	32
BMPW-315-T-G**	151-5308	EPM-W315KD**	116	42
BMPW-400-T-G**	151-5309	EPM-W400KD**	126	52
BMPW-500-T-G**		EPM-W500KD**	139	62

BMP Series hydraulic orbit motor

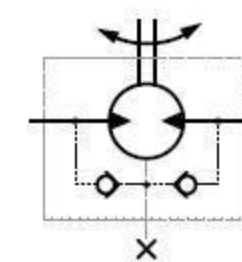


Popular model drawing

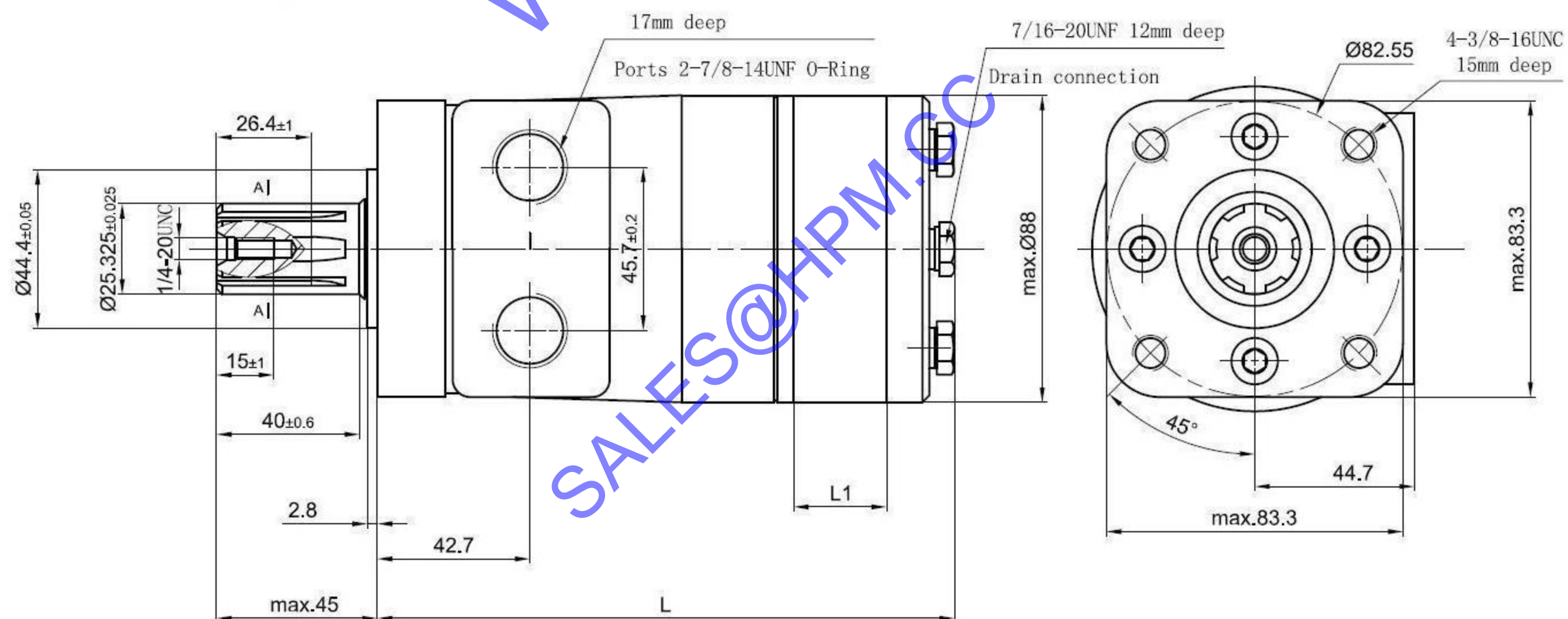
BMPH-x-H2-K-S



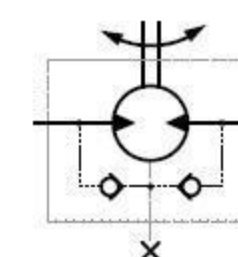
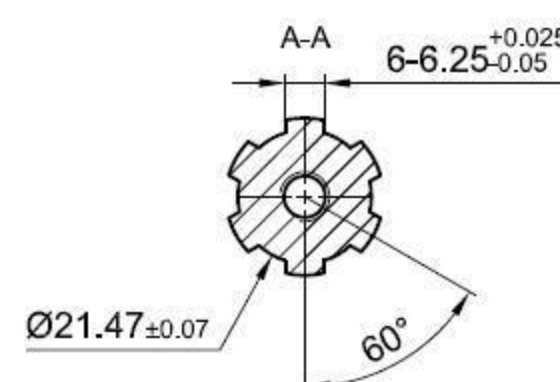
HPM Model	Eaton Model	L mm	L1 mm
BMPH-50-H2-K-S**	101-1033 (MH0028AA01AA)	137	7
BMPH-80-H2-K-S**	101-1034 (MH0045AA01AA)	140.5	10.5
BMPH-100-H2-K-S**	101-1035 (MH0059AA01AA)	143	13
BMPH-125-H2-K-S**	101-1702 (MH0073AA01AA)	146	16
BMPH-160-H2-K-S**	101-1036 (MH0097AA01AA)	151	21
BMPH-200-H2-K-S**	101-1037 (MH0113AA01AA)	157	26
BMPH-250-H2-K-S**	101-1038 (MH0141AA01AA)	162	32
BMPH-315-H2-K-S**	101-1039 (MH0179AA01AA)	172	42
BMPH-400-H2-K-S**	101-1040 (MH0226AA01AA)	182	52



BMPH-x-H4-S-S



HPM Model	Eaton Model	L mm	L1 mm
BMPH-50-H4-S-S**	101-1057 (MH0028BA02AA)	137	7
BMPH-80-H4-S-S**	101-1058 (MH0045BA02AA)	140.5	10.5
BMPH-100-H4-S-S**	101-1059 (MH0059BA02AA)	143	13
BMPH-125-H4-S-S**	101-1872 (MH0073BA02AA)	146	16
BMPH-160-H4-S-S**	101-1060 (MH0097BA02AA)	151	21
BMPH-200-H4-S-S**	101-1061 (MH0113BA02AA)	157	26
BMPH-250-H4-S-S**	101-1062 (MH0141BA02AA)	162	32
BMPH-315-H4-S-S**	101-1063 (MH0179BA02AA)	172	42
BMPH-400-H4-S-S**	101-1064 (MH0226BA02AA)	182	52

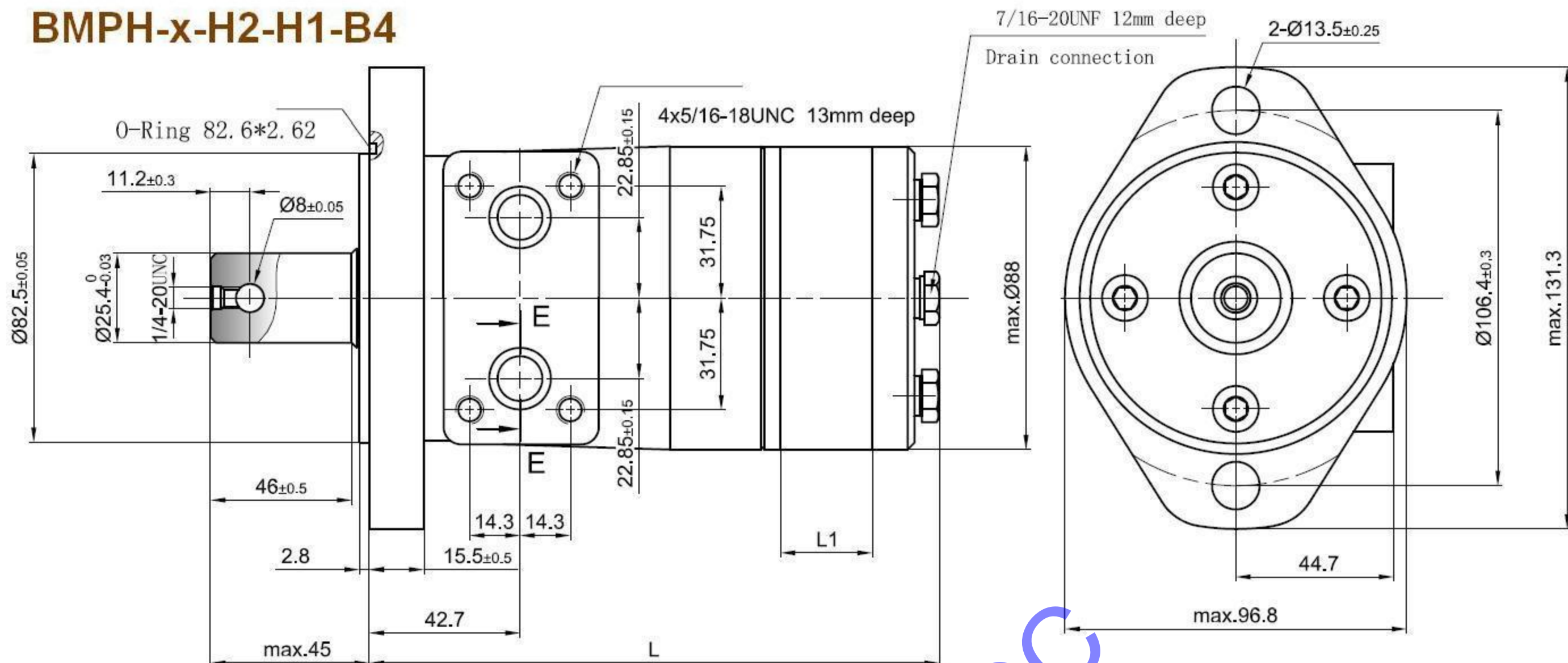


BMP Series hydraulic orbit motor



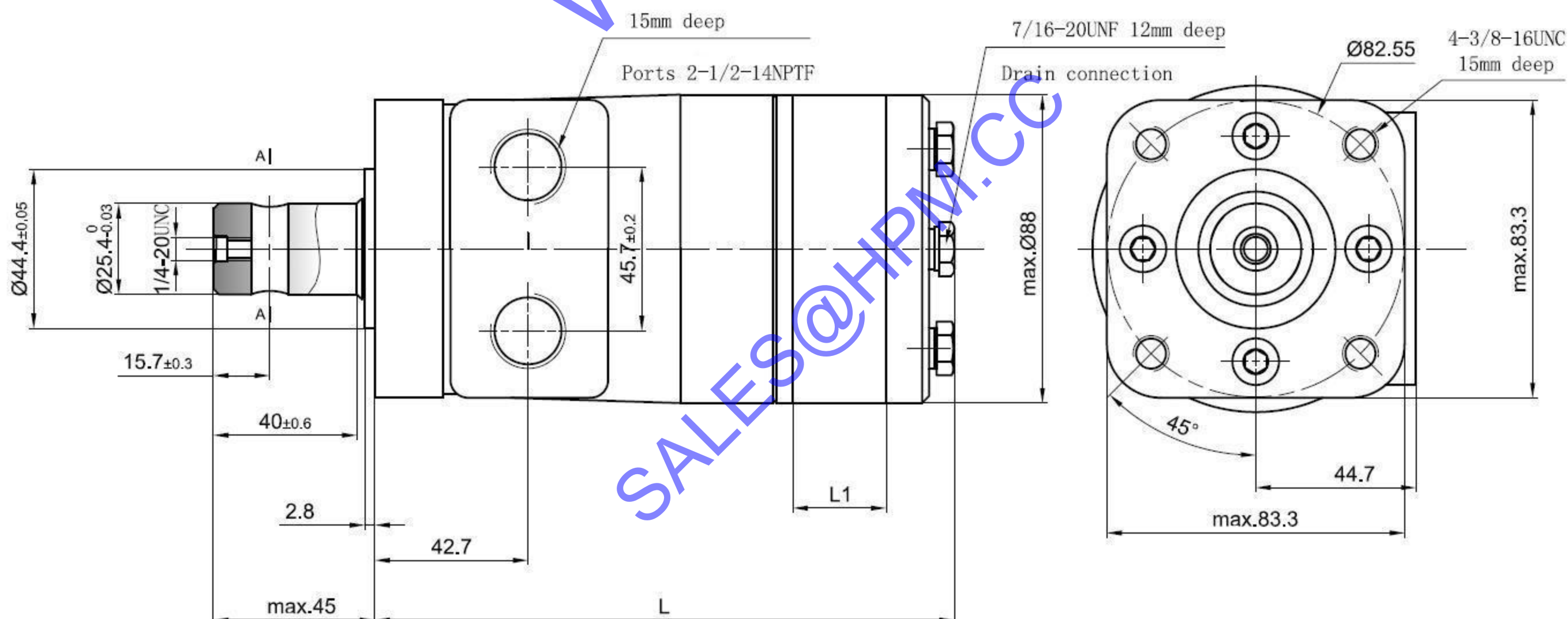
Popular model drawing

BMPH-x-H2-H1-B4



HPM Model	Eaton Model	L mm	L1 mm
BMPH-50-H2-H1-B4**	101-1812 (MH0028AA07AA)	137	7
BMPH-80-H2-H1-B4**	101-1814 (MH0045AA07AA)	140.5	10.5
BMPH-100-H2-H1-B4**	101-1815 (MH0059AA07AA)	143	13
BMPH-125-H2-H1-B4**	101-1816 (MH0073AA07AA)	146	16
BMPH-160-H2-H1-B4**	101-1818 (MH0097AA07AA)	151	21
BMPH-200-H2-H1-B4**	(MH0113AA07AA)	157	26
BMPH-250-H2-H1-B4**	(MH0141AA07AA)	162	32
BMPH-315-H2-H1-B4**	(MH0179AA07AA)	172	42
BMPH-400-H2-H1-B4**	(MH0226AA07AA)	182	52

BMPH-x-H4-H-P



HPM Model	Eaton Model	L mm	L1 mm
BMPH-50-H4-H-P**	101-1313 (MH0028BA08AB)	137	7
BMPH-80-H4-H-P**	101-1312 (MH0045BA08AB)	140.5	10.5
BMPH-100-H4-H-P**	101-1314 (MH0059BA08AB)	143	13
BMPH-125-H4-H-P**	101-1863 (MH0073BA08AB)	146	16
BMPH-160-H4-H-P**	101-1315 (MH0097BA08AB)	151	21
BMPH-200-H4-H-P**	(MH0113BA08AB)	157	26
BMPH-250-H4-H-P**	(MH0141BA08AB)	162	32
BMPH-315-H4-H-P**	(MH0179BA08AB)	172	42
BMPH-400-H4-H-P**	(MH0226BA08AB)	182	52

BMR Series hydraulic orbit motor



BMR-Replace with Danfoss OMR/DS Series, M+S EPRM/MLHR Series
Parker TC/TB Series, White WR Series

BMRS-Replace with Eaton S Series

BMRW-Wheel mounting

Parameters

Type		BMR	BMR	BMR	BMR	BMR	BMR	BMR	BMR	BMR	BMR
		BMRW	BMRW	BMRW	BMRW	BMRW	BMRW	BMRW	BMRW	BMRW	BMRW
		BMRS	BMRS	BMRS	BMRS	BMRS	BMRS	BMRS	BMRS	BMRS	BMRS
		-36	-50	-80	-100	-125	-160	-200	-250	-315	-375
Displacement		36	51.7	81.5	102	127.2	157.2	194.5	253.3	317.5	381.4
Max. speed (rpm)	cont.	1085	960	750	600	475	378	310	240	190	155
	int.	1220	1150	940	750	600	475	385	300	240	190
Max. torque (N•m)	cont.	72	100	195	240	300	360	360	390	390	365
	int.	83	126	220	280	340	430	440	490	535	495
	peak	105	165	270	320	370	460	560	640	650	680
Max. output (KW)	cont.	8.5	9.5	12.5	13	12.5	12.5	10	7	6	5
	int.	9.8	11.2	15	15	14.5	14	13	9.5	9	8
Max. pressure drop (Mpa)	cont.	14	14	17.5	17.5	17.5	16.5	13	11	9	7
	int.	16.5	17.5	20	20	20	20	17.5	15	13	10
	peak	22.5	22.5	22.5	22.5	22.5	22.5	22.5	20	17.5	15
Max. flow (L/min)	cont.	40	50	60	60	60	60	60	60	60	60
	int.	45	60	75	75	75	75	75	75	75	75
Weight(kg)		6.5	6.7	6.9	7	7.3	7.6	8	8.5	9	9.5

Selection

1	2	3	4
Series	Displacement	Flange	Output shaft
BMR	50	Code 2: 2-Ø13.5 Rhomb-flange , pilot Ø82.5×8 Code:4: 4-Ø13.5 Rhomb-flange , pilot Ø82.5×8 Code H4: 4-3/8-16 Square-flange , pilot Ø44.4×2.8 Code H5: 4-M10 Square-flange , pilot Ø44.4×2.8 Code W: 4-Ø13.5 Wheel-flange, pilot Ø82.5×9.4	Code A: Shaft Dia Ø25 , Parallel key 8×7×32 Code B: Shaft Dia Ø32 , Parallel key 10×8×45 Code C: Shaft Dia Ø25.4 , Parallel key 6.35×6.35×31.75 Code R: Shaft Dia Ø25.4 Short shaft , Parallel key 6.35×6.35×31.75 Code E: Shaft Dia Ø25.4 , Splined tooth SAE 6B Code F: Shaft Dia Ø31.75 , Splined tooth 14-DP12/24 Code FD: Shaft Dia Ø31.75 Long shaft , Splined tooth 14-DP12/24 Code G: Shaft Dia Ø31.75, Parallel key 7.95×7.95×31.75 Code T: Cone Shaft Dia Ø 28.56 , Parallel key 5×5×14 Code T1: Cone Shaft Dia Ø 35, Parallel key 6×6×20
	80		
	100		
	125		
	160		
	200		
	250		
	315		
	375		

Selection

5	6	7	8
Port and drain port	Rotation direction	Paint	Unusually function
Code D: G1/2 Manifold mount 4*M8,G1/4 Code M : M22*1.5 Manifold mount 4*M8,M14*1.5 Code S: 7/8-14 O-ring Manifold 4*5/16-18UNC,7/16-20UNF Code P: 1/2-14NPTF Manifold 4*5/16-18UNC,7/16-20UNF Code R: PT(Rc) 1/2 Manifold 4*M8,PT(Rc)1/4	Omit: Standard Code R: Opposite	Omit: Blue Code 00: No paint Code B: Black Code S: Silver Grey	Omit: Standard Code 0: No case drain Code N: Big radial force Code F: Free running Code LS: Low speed

Selection

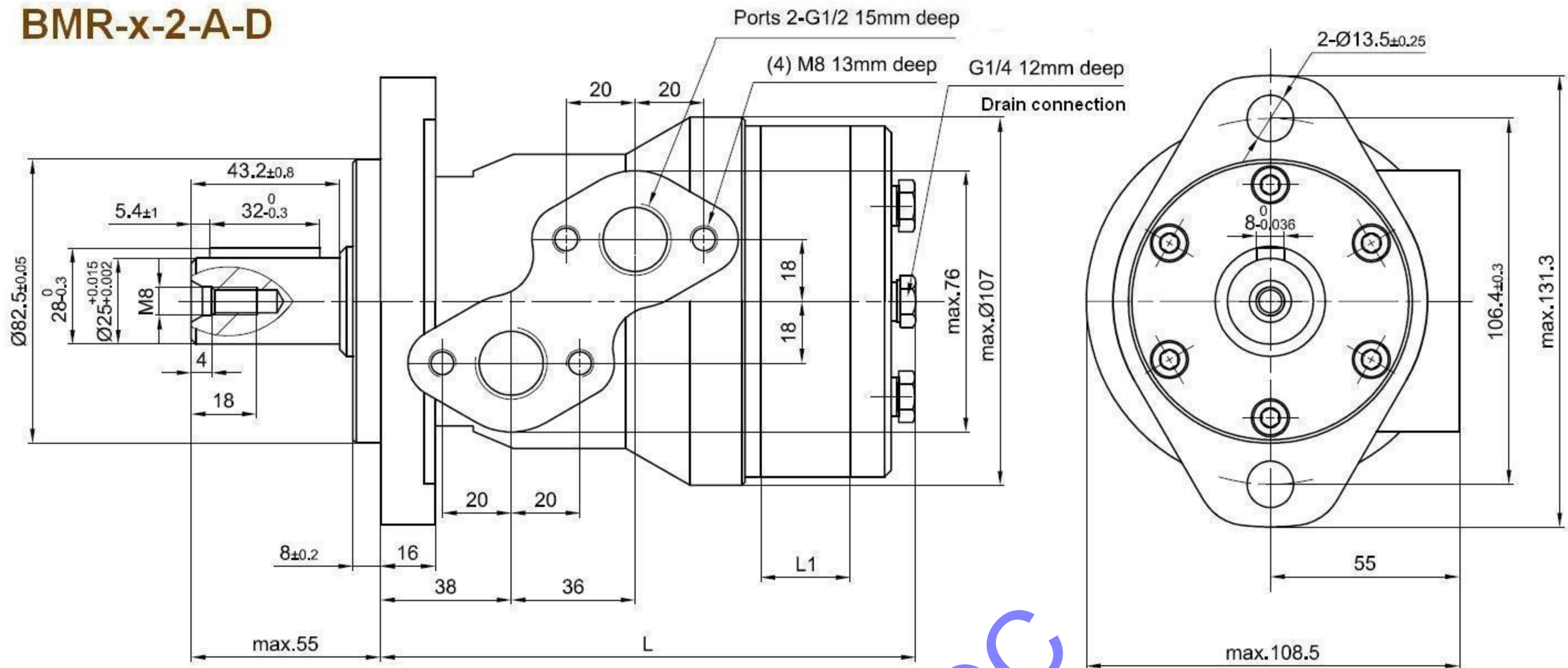
1	2	3	4
Series	Displacement	Flange	Output shaft
BMRS	50	Code H2: 2-Ø13.5 Rhomb-flange , pilot Ø82.5×2.8 Code:H4: 4-3/8-16 Square-flange , pilot Ø44.4×2.8 Code H5: 4-M10 Square-flange , pilot Ø44.4×2.8 Code H6: 4-Ø13.5 Rhomb-flange , pilot Ø82.5×2.8	Code A: Shalf Dia Ø25 , Parallel key 8×7×32 Code D: Shalf Dia Ø22.22, Parallel key 6.35×6.35×25.4 Code H: Shalf Dia Ø25.4 , pin hole Ø10.3 Code I: Shalf Dia Ø22.22, splined tooth 13-DP16/32 Code J: Shalf Dia Ø25 , Parallel key 7×7×32 Code K: Shalf Dia Ø25.4, woodruff key Ø25.4×6.35 Code P: Shalf Dia Ø25 , Parallel key 8×7×28 Code S: Shalf Dia Ø25.4 , splined tooth SEA 6B Code T2: Cone Shaft Dia Ø25.4 , woodruff key Ø25.4×6.35
	80		
	100		
	125		
	160		
	200		
	250		
	315		
375			
5	6	7	8
Port and drain port	Rotation direction	Paint	Unusually function
Code G: G1/2, G1/4 Code S : 7/8-14 O-ring ,7/16-20UNF Code P: 1/2-14 NPTF, 7/16-20UNF Code T: 3/4-16 O-ring, 7/16-20UNF Code R: PT(Rc) 1/2 ,PT(Rc)1/4 Code B4: Ø10 O-ring manifold 4x5/16-18,7/16-20UNF Code B5: Ø10 O-ring manifold 4xM8,G1/4 Code M1: M18*1.5,M10*1 Code M2: M20*1.5,M10*1 Code M3: M22*1.5,M10*1	Omit: Standard Code R: Opposite	Omit: Blue Code 00: No paint Code B: Black Code S: Silver Grey	Omit: Standard Code 0: No case drain Code N: Big radial force Code F: Free running Code LS: Low speed

BMR Series hydraulic orbit motor



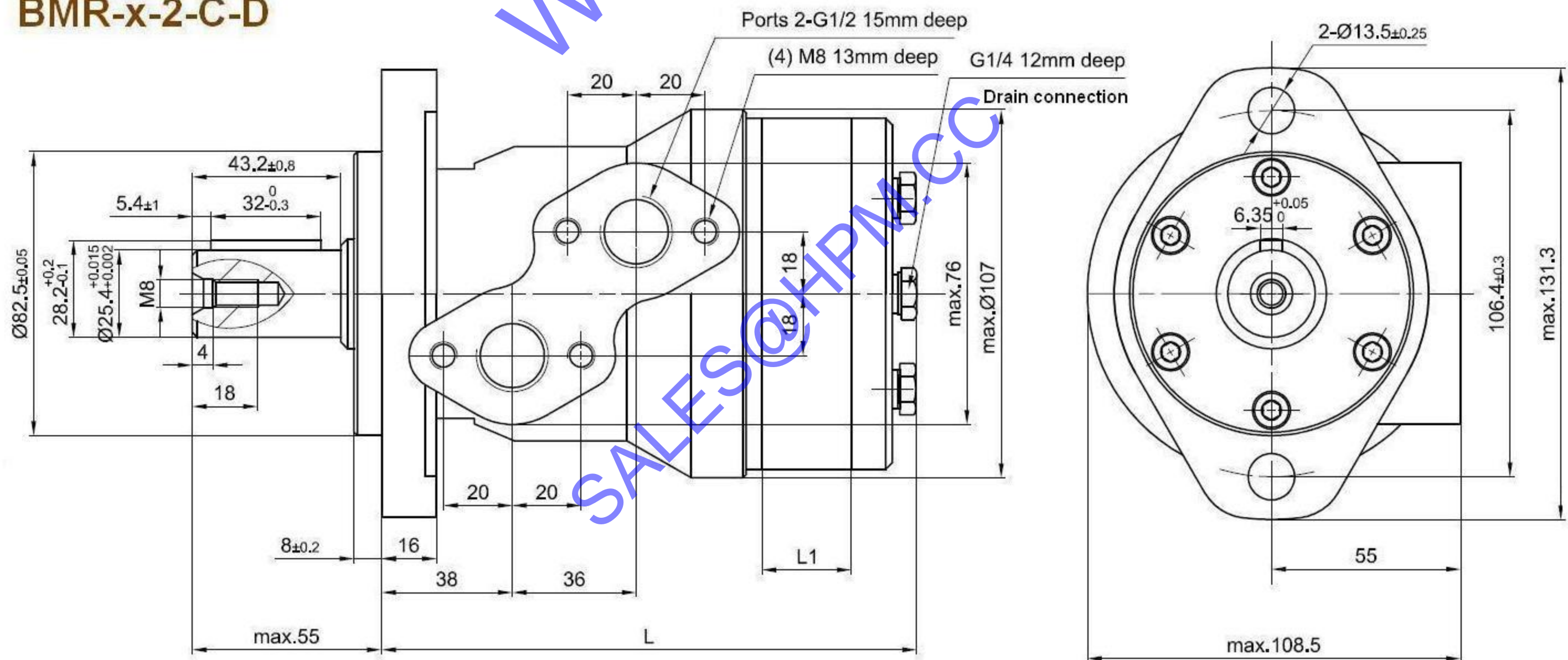
Popular model drawing

BMR-x-2-A-D



HPM Model	Danfoss Model	Danfoss Model	M+S Model	L mm	L1 mm
BMR-50-2AD**	151-0710	151-0410	EPRM-50CD**	140	10
BMR-80-2AD**	151-0711	151-0411	EPRM-80CD**	146	16
BMR-100-2AD**	151-0712	151-0412	EPRM-100CD**	150	20
BMR-125-2AD**	151-0713	151-0413	EPRM-125CD**	155	25
BMR-160-2AD**	151-0714	151-0414	EPRM-160CD**	162	30.5
BMR-200-2AD**	151-0715	151-0415	EPRM-200CD**	170	38.1
BMR-250-2AD**	151-0716	151-0416	EPRM-250CD**	180	50
BMR-315-2AD**	151-0717	151-0417	EPRM-315CD**	192	62
BMR-375-2AD**	151-0718	151-0418	EPRM-400CD**	204	74

BMR-x-2-C-D



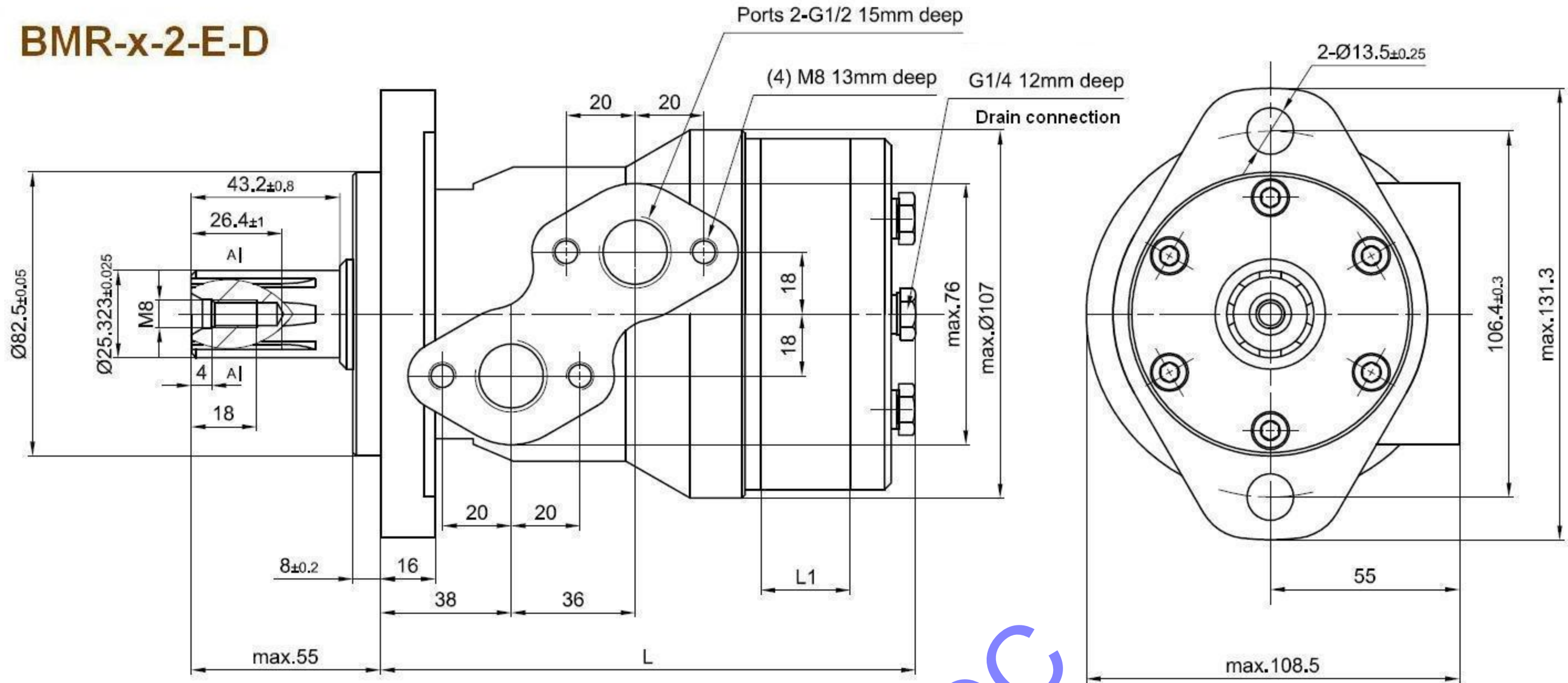
HPM Model	Danfoss Model	Danfoss Model	M+S Model	L mm	L1 mm
BMR-50-2CD**	151-0700	151-0400	EPRM-50COD**	140	10
BMR-80-2CD**	151-0701	151-0401	EPRM-80COD**	146	16
BMR-100-2CD**	151-0702	151-0402	EPRM-100COD**	150	20
BMR-125-2CD**	151-0703	151-0403	EPRM-125COD**	155	25
BMR-160-2CD**	151-0704	151-0404	EPRM-160COD**	162	30.5
BMR-200-2CD**	151-0705	151-0405	EPRM-200COD**	170	38.1
BMR-250-2CD**	151-0706	151-0406	EPRM-250COD**	180	50
BMR-315-2CD**	151-0707	151-0407	EPRM-315COD**	192	62
BMR-375-2CD**	151-0708	151-0408	EPRM-400COD**	204	74

BMR Series hydraulic orbit motor



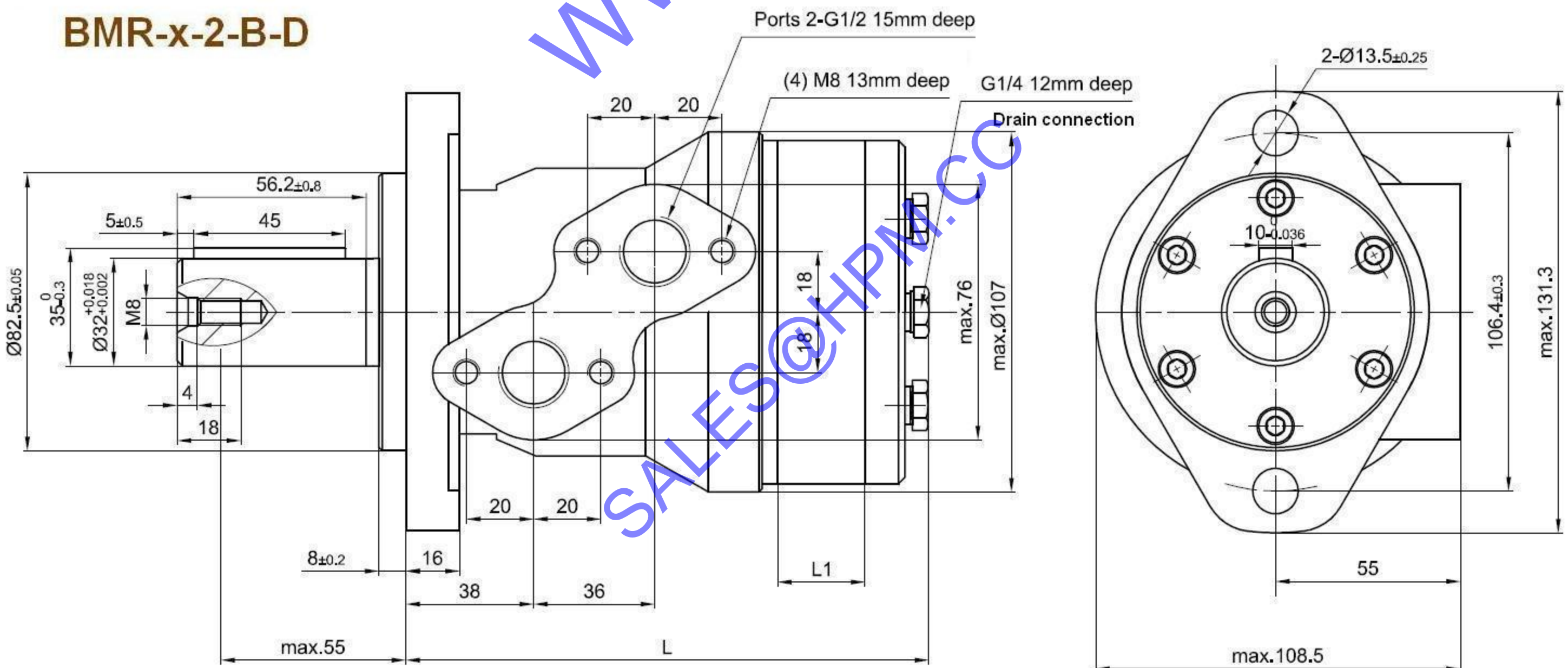
Popular model drawing

BMR-x-2-E-D



HPM Model	Danfoss Model	Danfoss Model	M+S Model	L mm	L1 mm		
BMR-50-2ED**	151-0720	With Drain Port	151-0420	EPRM-50SHD**	140	10	
BMR-80-2ED**	151-0721		151-0421		EPRM-80SHD**	146	16
BMR-100-2ED**	151-0722		151-0422		EPRM-100SHD**	150	20
BMR-125-2ED**	151-0723		151-0423		EPRM-125SHD**	155	25
BMR-160-2ED**	151-0724		151-0424		EPRM-160SHD**	162	30.5
BMR-200-2ED**	151-0725		151-0425		EPRM-200SHD**	170	38.1
BMR-250-2ED**	151-0726		151-0426		EPRM-250SHD**	180	50
BMR-315-2ED**	151-0727		151-0427		EPRM-315SHD**	192	62
BMR-375-2ED**	151-0728		151-0428		EPRM-400SHD**	204	74
			Without Drain Port				

BMR-x-2-B-D



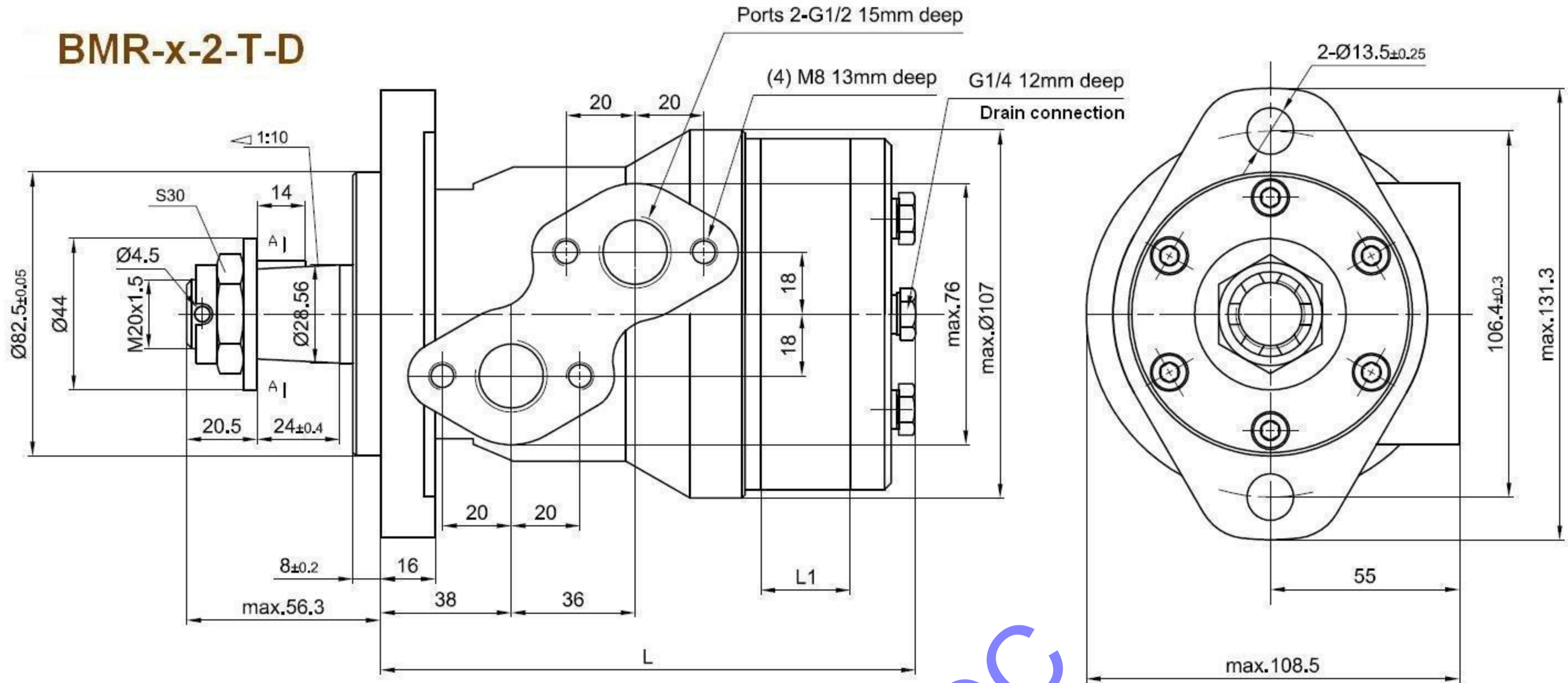
HPM Model	Danfoss Model	M+S Model	L mm	L1 mm	
BMR-50-2BD**	151-0248	With Drain Port	EPRM-50CB**	140	10
BMR-80-2BD**	151-0242		EPRM-80CB**	146	16
BMR-100-2BD**	151-0243		EPRM-100CB**	150	20
BMR-125-2BD**	151-0208		EPRM-125CB**	155	25
BMR-160-2BD**	151-0244		EPRM-160CB**	161.5	30.5
BMR-200-2BD**	151-0245		EPRM-200CB**	170	38.1
BMR-250-2BD**	151-0247		EPRM-250CB**	180	50
BMR-315-2BD**	151-0246		EPRM-315CB**	192	62
BMR-375-2BD**	151-6294		EPRM-400CB**	204	74

BMR Series hydraulic orbit motor



Popular model drawing

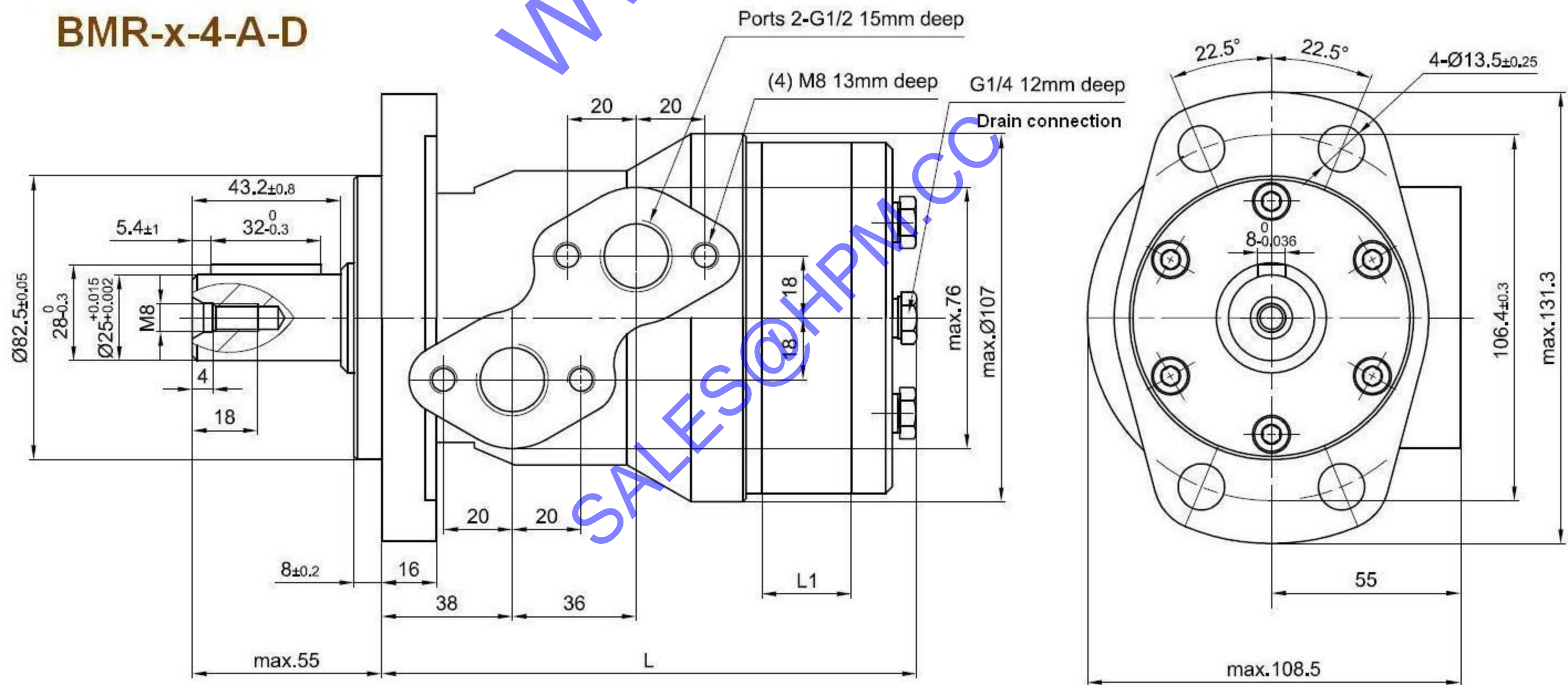
BMR-x-2-T-D



HPM Model	Danfoss model	M+S code	L mm	L1 mm
BMR-50-2TD**	151-0265	EPRM-50KD**	140	10
BMR-80-2TD**	151-0266	EPRM-80KD**	146	16
BMR-100-2TD**	151-0267	EPRM-100KD**	150	20
BMR-125-2TD**	151-6295	EPRM-125KD**	155	25
BMR-160-2TD**	151-0268	EPRM-160KD**	161.5	30.5
BMR-200-2TD**	151-0269	EPRM-200KD**	170	38.1
BMR-250-2TD**	151-0271	EPRM-250KD**	180	50
BMR-315-2TD**	151-0270	EPRM-315KD**	192	62
BMR-375-2TD**	151-6296	EPRM-400KD**	204	74

With Drain Port

BMR-x-4-A-D



HPM Model	Danfoss model	M+S code	L mm	L1 mm
BMR-50-4AD**	151-6010	EPRM-F50CD**	140	10
BMR-80-4AD**	151-6011	EPRM-F80CD**	146	16
BMR-100-4AD**	151-6012	EPRM-F100CD**	150	20
BMR-125-4AD**	151-6013	EPRM-F125CD**	155	25
BMR-160-4AD**	151-6014	EPRM-F160CD**	161.5	30.5
BMR-200-4AD**	151-6015	EPRM-F200CD**	170	38.1
BMR-250-4AD**	151-6016	EPRM-F250CD**	180	50
BMR-315-4AD**	151-6017	EPRM-F315CD**	192	62
BMR-375-4AD**	151-6018	EPRM-F400CD**	204	74

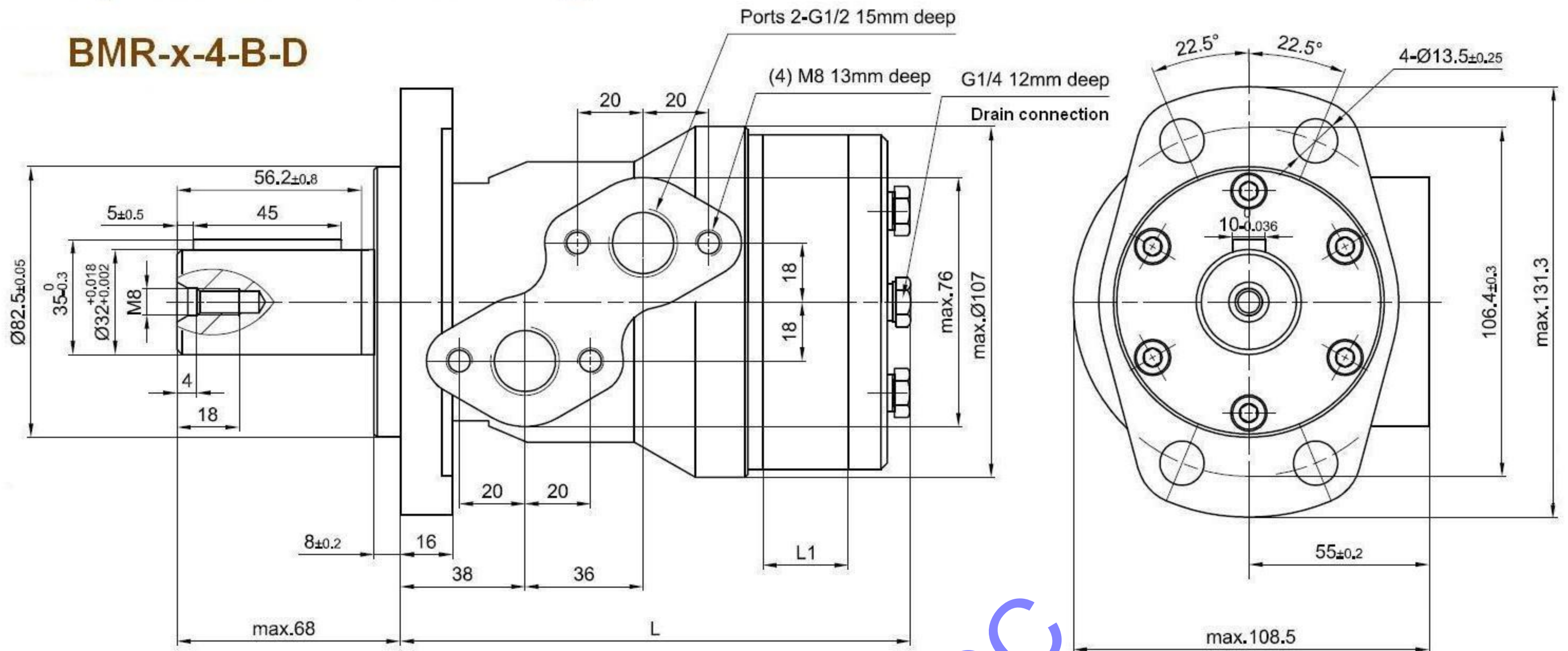
With Drain Port

BMR Series hydraulic orbit motor



Popular model drawing

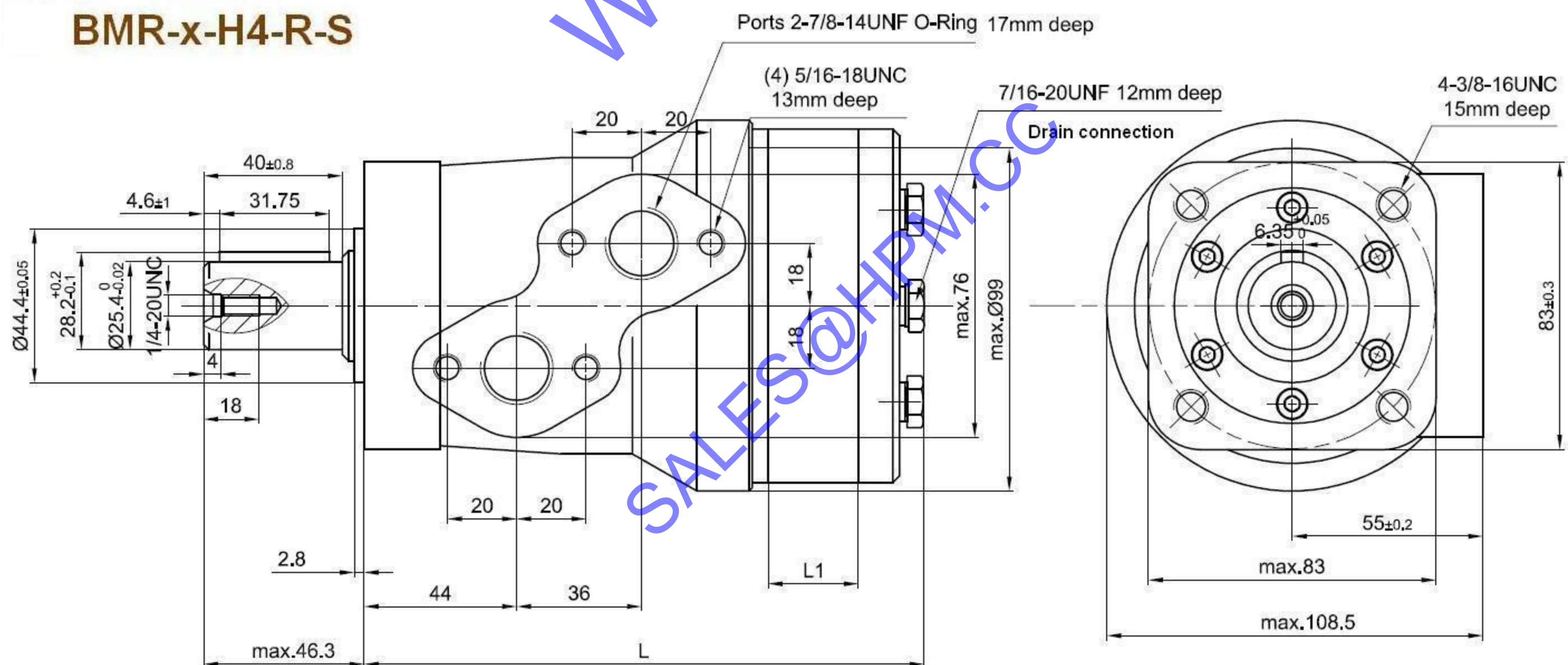
BMR-x-4-B-D



HPM Model	Danfoss Model	M+S Model	L mm	L1 mm
BMR-50-4BD**	151-6000	EPRM-F50CB**	140	10
BMR-80-4BD**	151-6001	EPRM-F80CB**	146	16
BMR-100-4BD**	151-6002	EPRM-F100CB**	150	20
BMR-125-4BD**	151-6003	EPRM-F125CB**	155	25
BMR-160-4BD**	151-6004	EPRM-F160CB**	161.5	30.5
BMR-200-4BD**	151-6005	EPRM-F200CB**	170	38.1
BMR-250-4BD**	151-6006	EPRM-F250CB**	180	50
BMR-315-4BD**	151-6007	EPRM-F315CB**	192	62
BMR-375-4BD**	151-6008	EPRM-F400CB**	204	74

With Drain Port

BMR-x-H4-R-S



HPM Model	Danfoss Model	M+S Model	L mm	L1 mm
BMR-50-H4RS**	151-7260	MLHR-Q50C4**	140	10
BMR-80-H4RS**	151-7261	MLHR-Q80C4**	146	16
BMR-100-H4RS**	151-7262	MLHR-Q100C4**	150	20
BMR-125-H4RS**	151-7263	MLHR-Q125C4**	155	25
BMR-160-H4RS**	151-7264	MLHR-Q160C4**	161.5	30.5
BMR-200-H4RS**	151-7265	MLHR-Q200C4**	170	38.1
BMR-250-H4RS**	151-7266	MLHR-Q250C4**	180	50
BMR-315-H4RS**	151-7267	MLHR-Q315C4**	192	62
BMR-375-H4RS**	151-7269	MLHR-Q400C4**	204	74

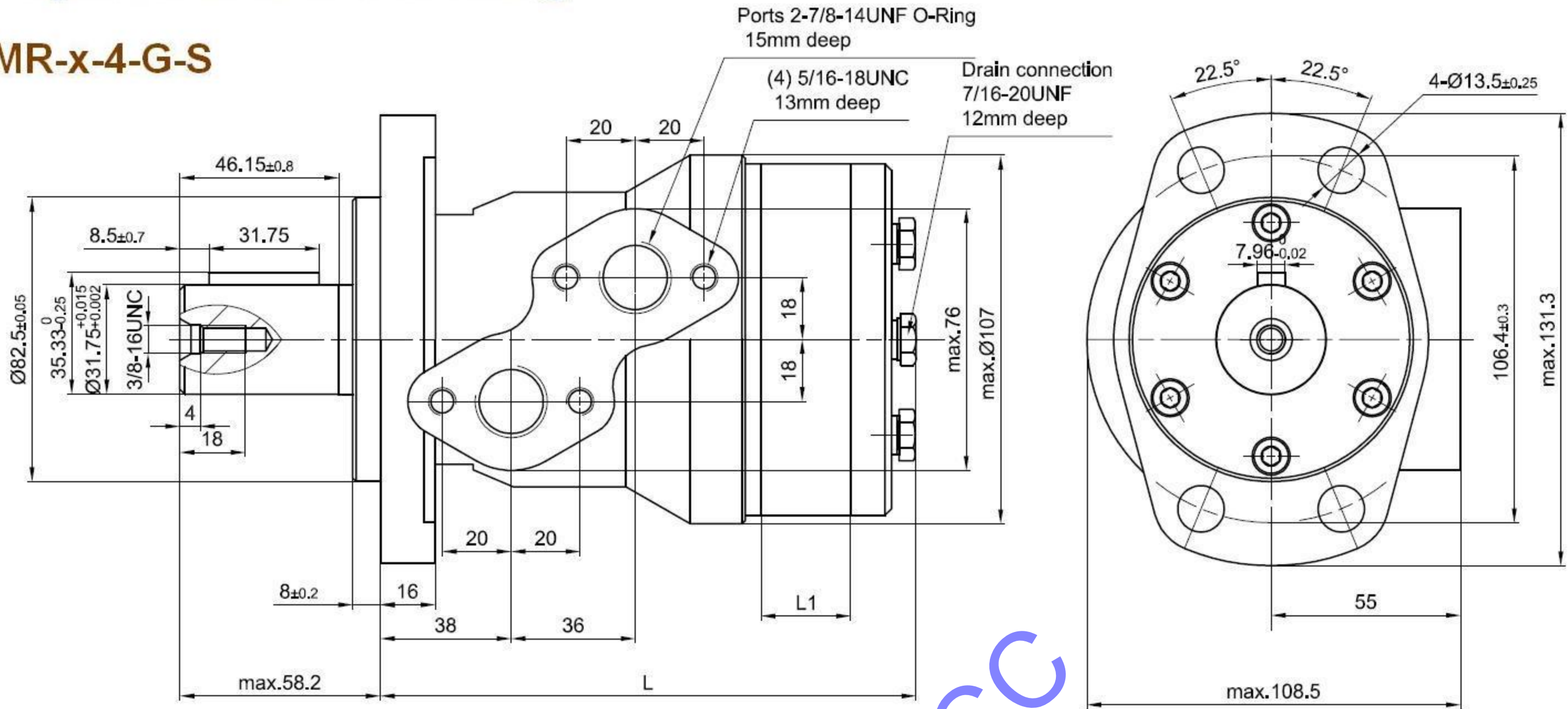
With Drain Port

BMR Series hydraulic orbit motor



Popular model drawing

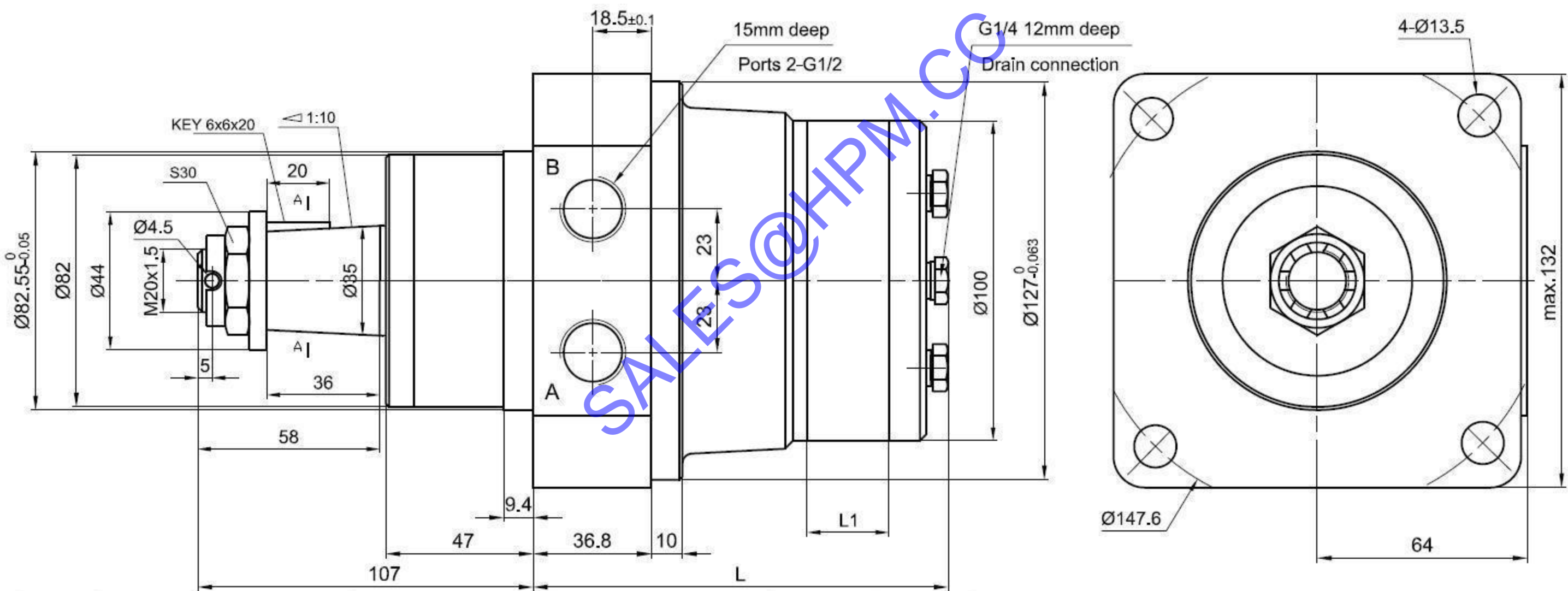
BMR-x-4-G-S



HPM Model	Danfoss Model	M+S Model	L mm	L1 mm
BMR-50-4GS**	151-6110	MLHR-F50K4**	140	10
BMR-80-4GS**	151-6111	MLHR-F80K4**	146	16
BMR-100-4GS**	151-6112	MLHR-F100K4**	150	20
BMR-125-4GS**	151-6113	MLHR-F125K4**	155	25
BMR-160-4GS**	151-6114	MLHR-F160K4**	161.5	30.5
BMR-200-4GS**	151-6115	MLHR-F200K4**	170	38.1
BMR-250-4GS**	151-6116	MLHR-F250K4**	180	50
BMR-315-4GS**	151-6117	MLHR-F315K4**	192	62
BMR-375-4GS**	151-6118	MLHR-F400K4**	204	74

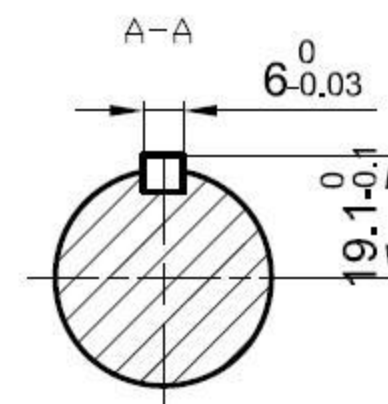
With Drain Port

BMRW-x-T1D



HPM Model	Danfoss Model	L mm	L1 mm
BMRW-50-T1D**	151-6300	115	10
BMRW-80-T1D**	151-6301	119	16
BMRW-100-T1D**	151-6302	123	20
BMRW-125-T1D**	151-6303	128	25
BMRW-160-T1D**	151-6304	133.5	30.5
BMRW-200-T1D**	151-6305	141	38.1
BMRW-250-T1D**	151-6306	153	50
BMRW-315-T1D**	151-6307	165	62
BMRW-375-T1D**	151-6308	177	74

With Drain Port

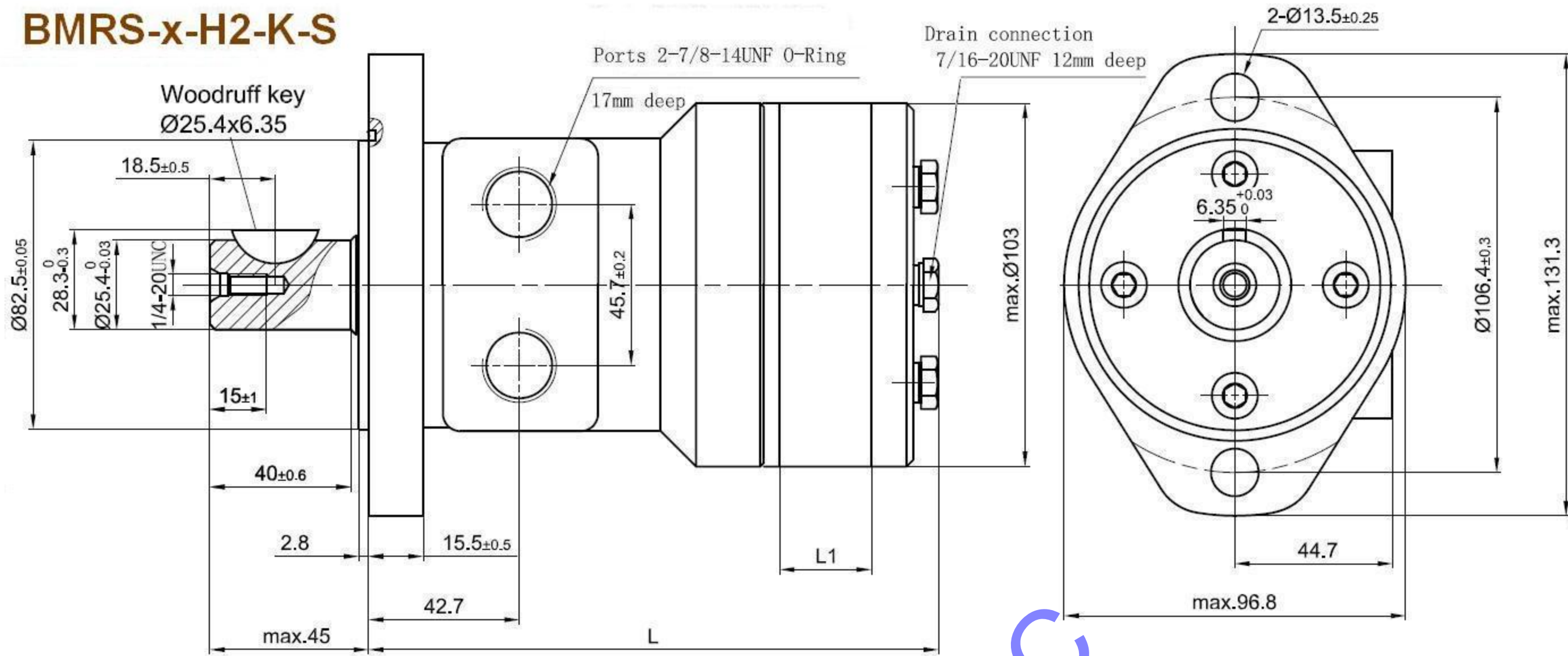


BMR Series hydraulic orbit motor

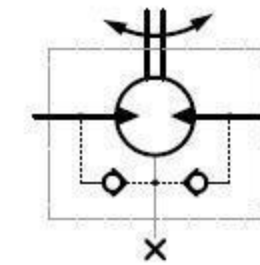


Popular model drawing

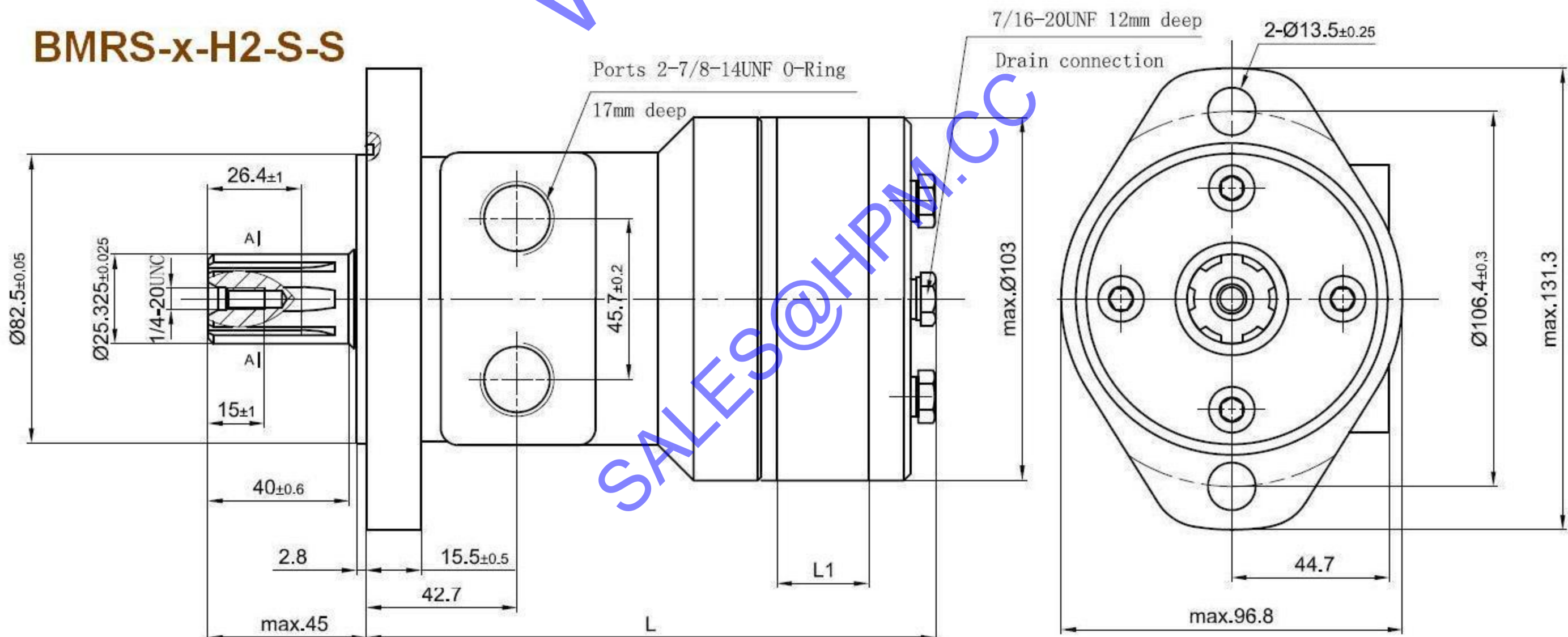
BMRS-x-H2-K-S



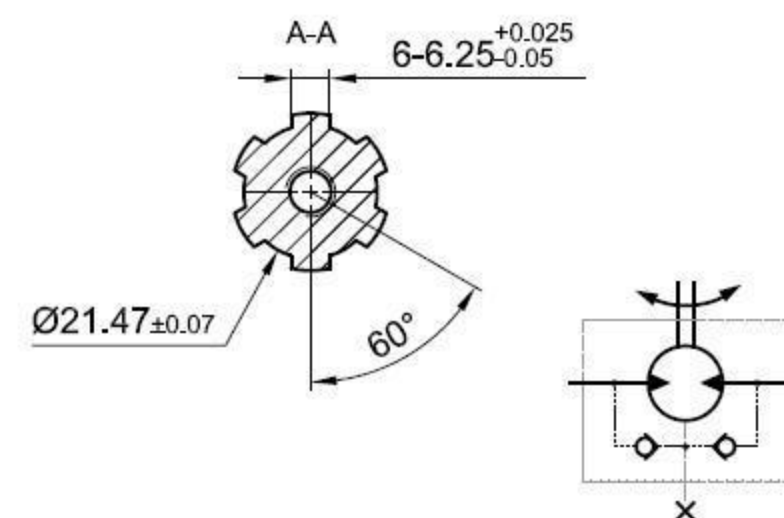
HPM Model	Eaton Model	L mm	L1 mm
BMRS-50-H2-K-S**		144	10
BMRS-80-H2-K-S**	103-1034 (MS0046AA01AA)	150	16
BMRS-100-H2-K-S**	103-1035 (MS0057AA01AA)	154	20
BMRS-125-H2-K-S**	103-1538 (MS0073AA01AA)	159	25
BMRS-160-H2-K-S**	103-1036 (MS0101AA01AA)	165.5	30.5
BMRS-200-H2-K-S**	103-1037 (MS0114AA01AA)	174	38.1
BMRS-250-H2-K-S**	103-1038 (MS0137AA01AA)	184	50
BMRS-315-H2-K-S**	103-1039 (MS0182AA01AA)	196	62
BMRS-375-H2-K-S**	103-1040 (MS0227AA01AA)	208	74



BMRS-x-H2-S-S



HPM Model	Eaton Char-Lynn Model	L mm	L1 mm
BMRS-50-H2-S-S**		144	10
BMRS-80-H2-S-S**	103-1082 (MS0046AA02AA)	150	16
BMRS-100-H2-S-S**	103-1083 (MS0057AA02AA)	154	20
BMRS-125-H2-S-S**	103-1553 (MS0073AA02AA)	159	25
BMRS-160-H2-S-S**	103-1084 (MS0101AA02AA)	165.5	30.5
BMRS-200-H2-S-S**	103-1085 (MS0114AA02AA)	174	38.1
BMRS-250-H2-S-S**	103-1086 (MS0137AA02AA)	184	50
BMRS-315-H2-S-S**	103-1087 (MS0182AA02AA)	196	62
BMRS-400-H2-S-S**	103-1088 (MS0227AA02AA)	208	74

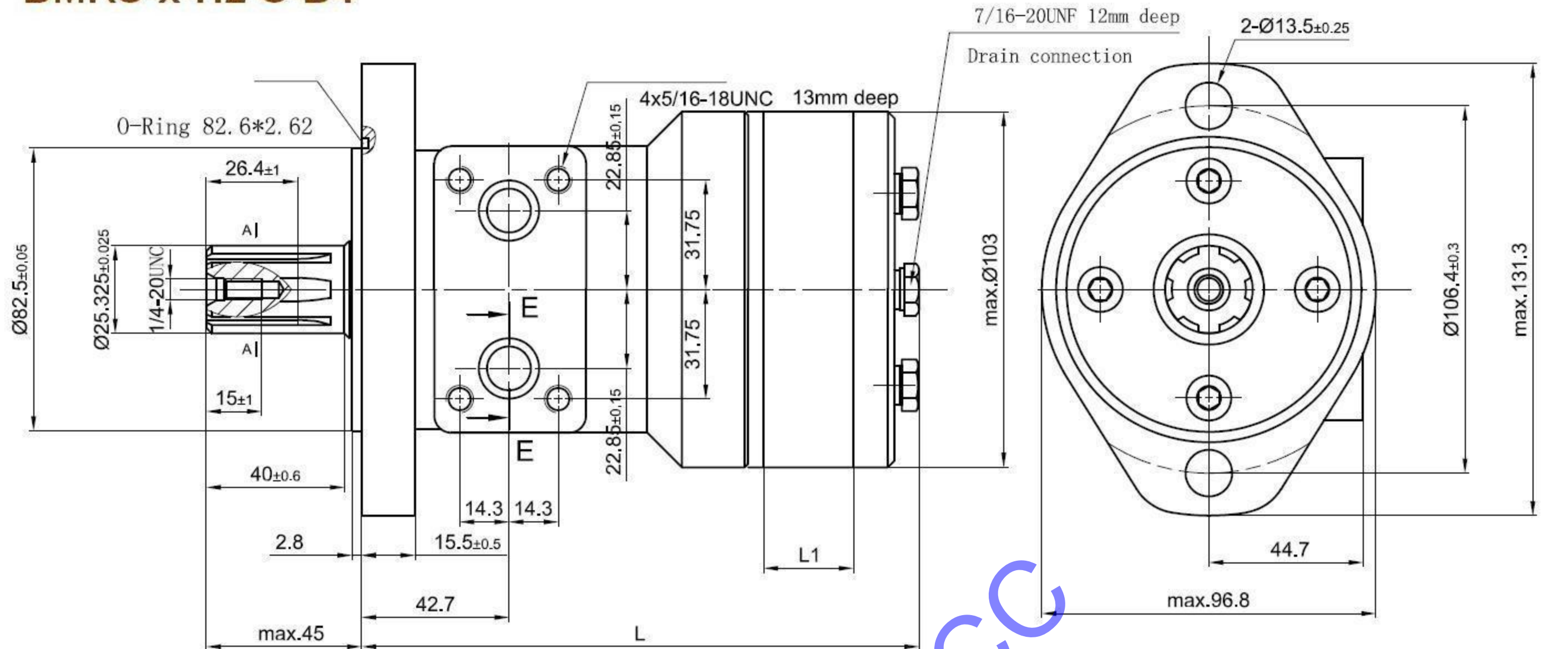


BMR Series hydraulic orbit motor

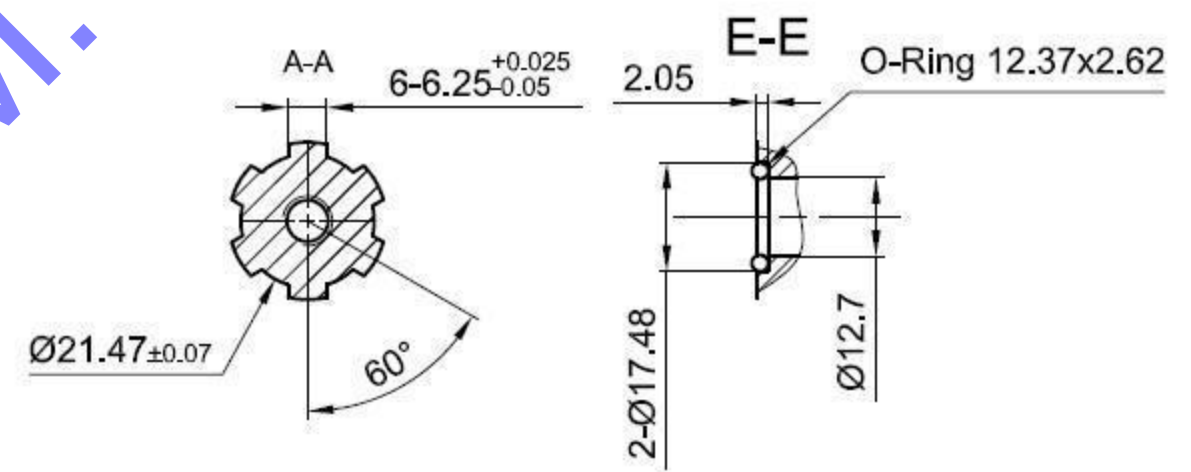


Popular model drawing

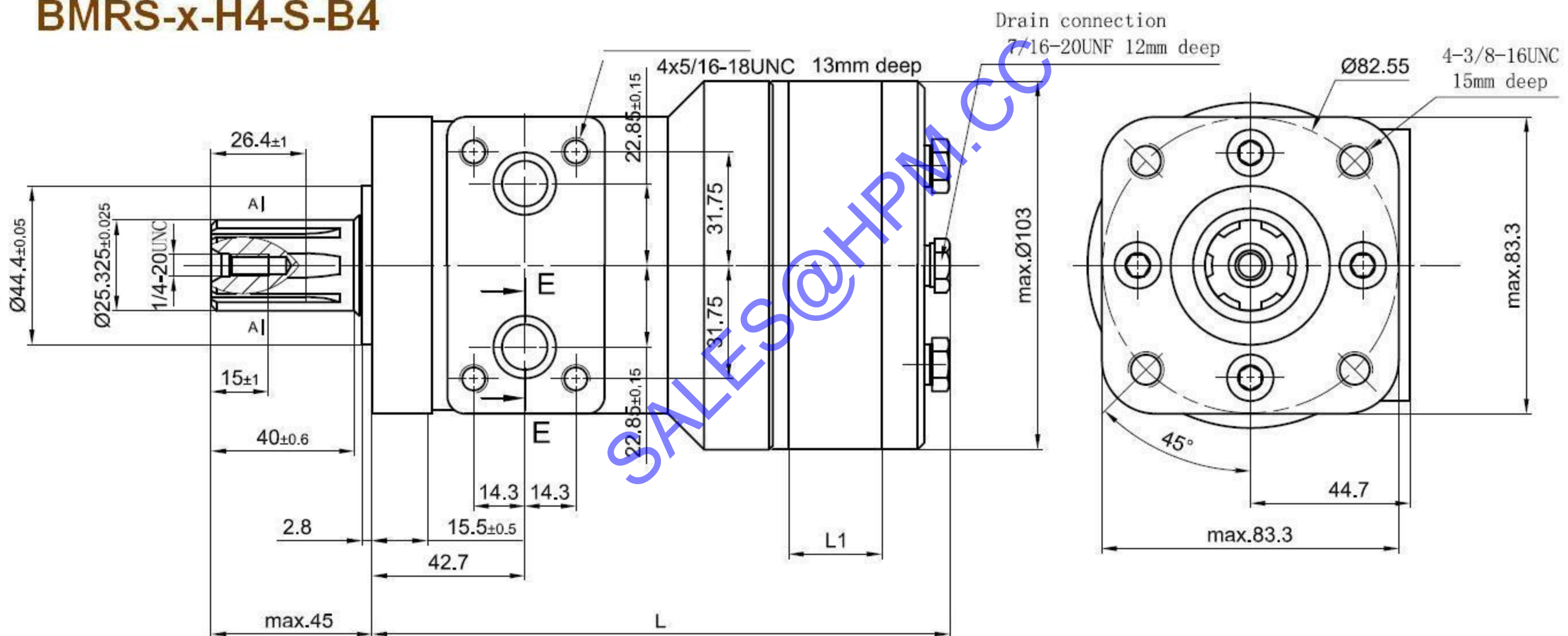
BMRS-x-H2-S-B4



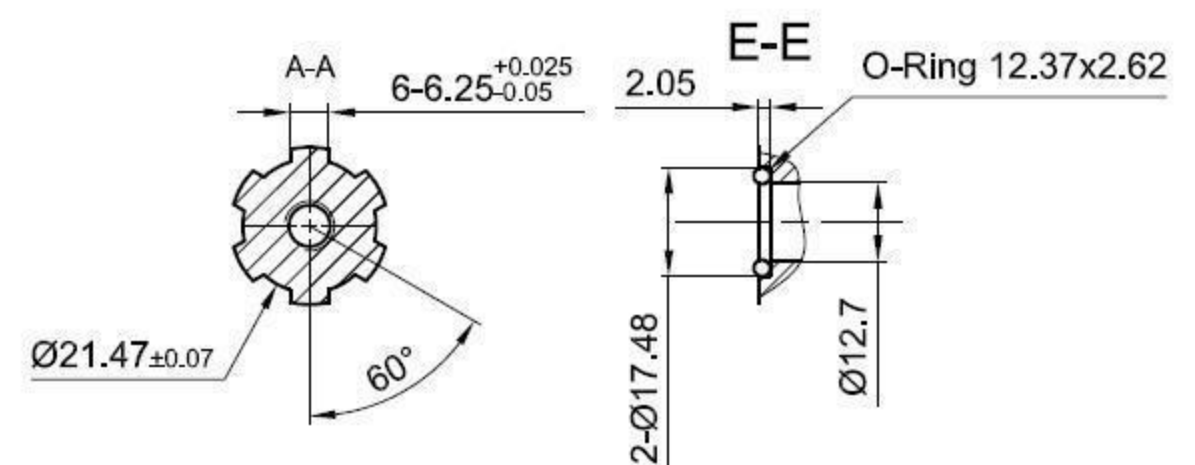
HPM Model	Eaton Model	L mm	L1 mm
BMRS-50-H2-S-B4**		144	10
BMRS-80-H2-S-B4**	103-1090 (MS0046AA02AC)	150	16
BMRS-100-H2-S-B4**	103-1091 (MS0057AA02AC)	154	20
BMRS-125-H2-S-B4**	103-1559 (MS0073AA02AC)	159	25
BMRS-160-H2-S-B4**	103-1092 (MS0101AA02AC)	165.5	30.5
BMRS-200-H2-S-B4**	103-1093 (MS0114AA02AC)	174	38.1
BMRS-250-H2-S-B4**	103-1094 (MS0137AA02AC)	184	50
BMRS-315-H2-S-B4**	103-1095 (MS0182AA02AC)	196	62
BMRS-375-H2-S-B4**	103-1096 (MS0227AA02AC)	208	74



BMRS-x-H4-S-B4



HPM Model	Eaton Model	L mm	L1 mm
BMRS-50-H4-S-B4**		144	10
BMRS-80-H4-S-B4**	103-1066 (MS0046BA02AC)	150	16
BMRS-100-H4-S-B4**	103-1067 (MS0057BA02AC)	154	20
BMRS-125-H4-S-B4**	103-1586 (MS0073BA02AC)	159	25
BMRS-160-H4-S-B4**	103-1068 (MS0101BA02AC)	165.5	30.5
BMRS-200-H4-S-B4**	103-1069 (MS0114BA02AC)	174	38.1
BMRS-250-H4-S-B4**	103-1070 (MS0137BA02AC)	184	50
BMRS-315-H4-S-B4**	103-1071 (MS0182BA02AC)	196	62
BMRS-375-H4-S-B4**	103-1072 (MS0227BA02AC)	208	74

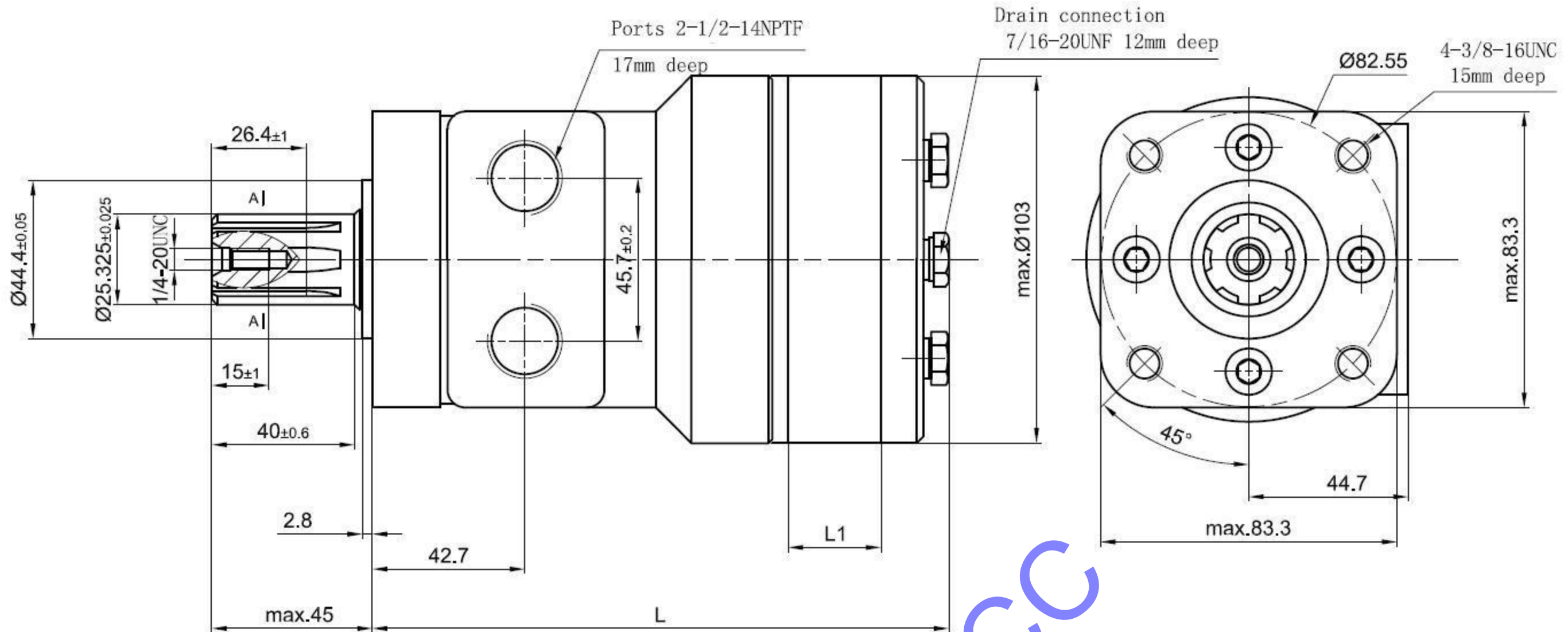


BMR Series hydraulic orbit motor



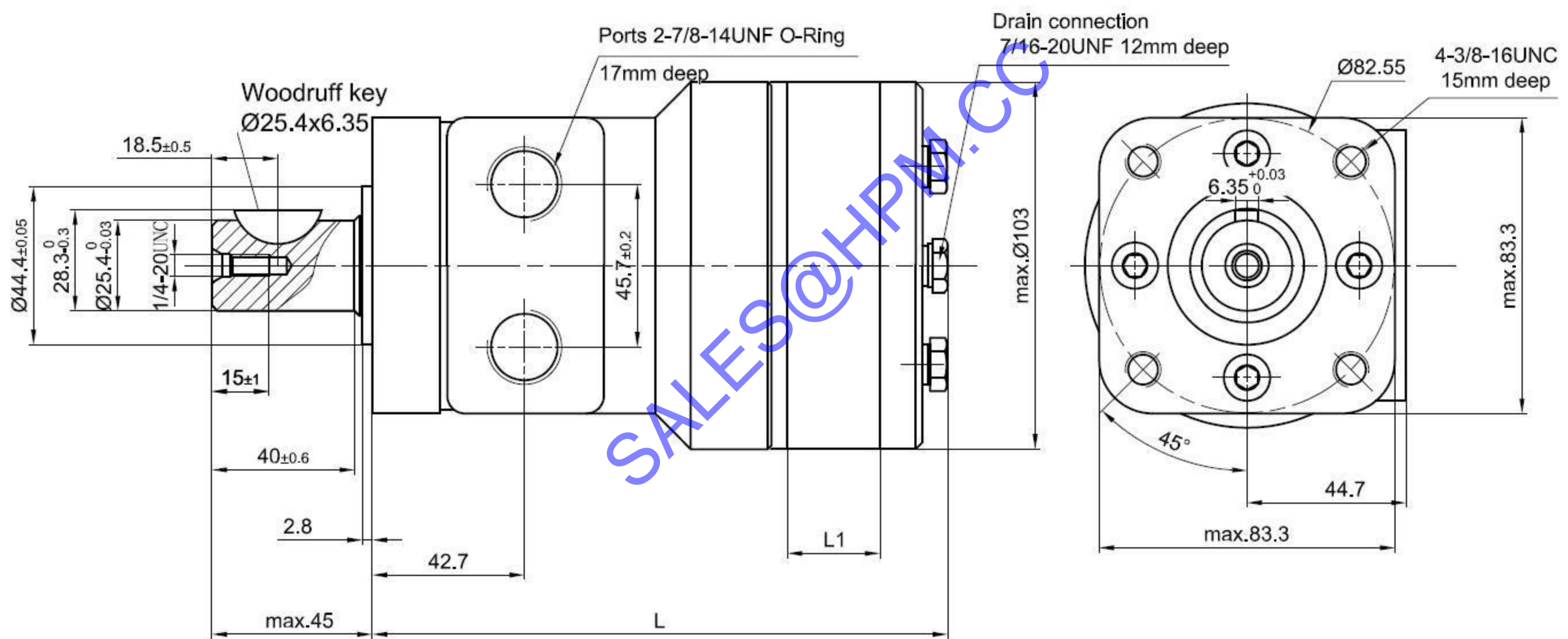
Popular model drawing

BMRS-x-H4-S-P

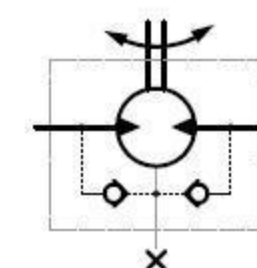


HPM Model	Eaton Model	L mm	L1 mm
BMRS-50-H4-S-P**		144	10
BMRS-80-H4-S-P**	103-1050 (MS0046BA02AB)	150	16
BMRS-100-H4-S-P**	103-1051 (MS0057BA02AB)	154	20
BMRS-125-H4-S-P**	103-1583 (MS0073BA02AB)	159	25
BMRS-160-H4-S-P**	103-1052 (MS0101BA02AB)	165.5	30.5
BMRS-200-H4-S-P**	103-1053 (MS0114BA02AB)	174	38.1
BMRS-250-H4-S-P**	103-1054 (MS0137BA02AB)	184	50
BMRS-315-H4-S-P**	103-1055 (MS0182BA02AB)	196	62
BMRS-375-H4-S-P**	103-1056 (MS0227BA02AB)	208	74

BMRS-x-H4-K-S



HPM Model	Eaton Model	L mm	L1 mm
BMRS-50-H4-K-S**		144	10
BMRS-80-H4-K-S**	103-1010 (MS0046BA01AA)	150	16
BMRS-100-H4-K-S**	103-1011 (MS0057BA01AA)	154	20
BMRS-125-H4-K-S**	103-1571 (MS0073BA01AA)	159	25
BMRS-160-H4-K-S**	103-1012 (MS0101BA01AA)	165.5	30.5
BMRS-200-H4-K-S**	103-1013 (MS0114BA01AA)	174	38.1
BMRS-250-H4-K-S**	103-1014 (MS0137BA01AA)	184	50
BMRS-315-H4-K-S**	103-1015 (MS0182BA01AA)	196	62
BMRS-375-H4-K-S**	103-1016 (MS0227BA01AA)	208	74



BMH Series hydraulic orbit motor



BMH-Replace with DANFOSS OMH SERIES, M+S EPMH/MLHH SERIES

Parameters

Type		BMH-200	BMH-250	BMH-315	BMH-400	BMH-500
Displacement		203.2	255.9	316.1	406.4	489.2
Max. speed (rpm)	cont.	366	290	236	183	155
	int.	439	348	282	220	166
Max. torque (N•m)	cont.	510	621	740	850	830
	int.	579	702	827	990	1040
	peak	651	790	980	1092	1170
Max. output (KW)	cont.	11.2	9.2	9.8	7.4	6.5
	int.	17	15	13	13	11
Max. pressure drop (Mpa)	cont.	17.5	17.5	17.5	15.5	12.5
	int.	20	20	20	19	16
	peak	22.5	22.5	22.5	21	18
Max. flow (L/min)	cont.	75	75	75	75	75
	int.	90	90	90	90	90
Weight(kg)		10.5	11	11.5	12.3	13

Selection

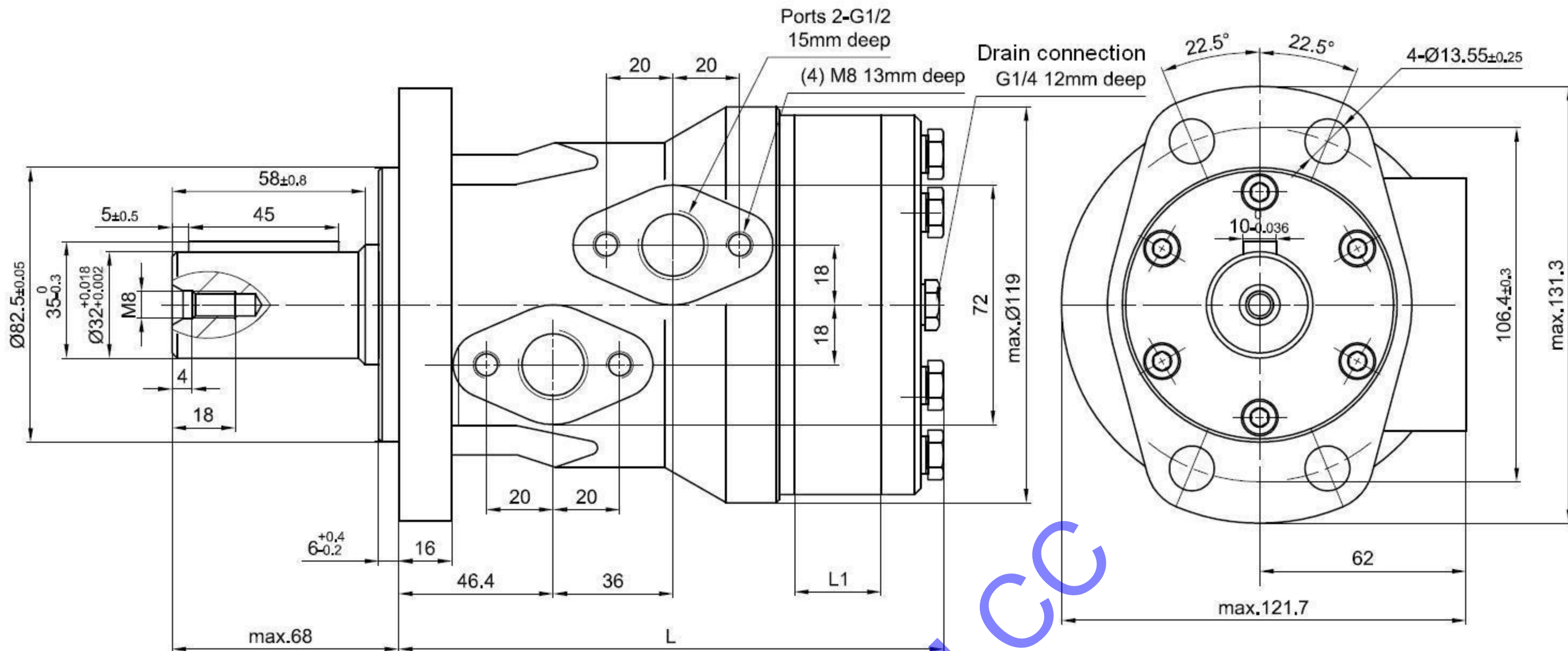
1	2	3	4
Series	Displacement	Flange	Output shaft
BMH	200	Code 2: 2-Ø13.5 Rhomb-flange , pilot Ø82.5×6 Code 4: 4-Ø13.5 Rhomb-flange , pilot Ø82.5×6	Code B: Ø32 , Parallel key 10×8×45 Code M: Ø35 ,Parallel key 10×8×45 Code F: Ø31.75 , Splined key 14-DP12/24 Code FD: Ø31.75 , Splined key 14-DP12/24 Long shaft Code G: Ø32, Parallel key7.96×7.96×31.75 Code T1: Ø35 Cone shaft,Parallel key 6×6×20 Code S: Ø25.4,Splined key SAE 6B
	250		
	315		
	400		
	500		
5	6	7	8
Port and drain port	Rotation direction	Paint	Unusually function
Code D: G1/2 Manifold mount 4*M8,G1/4 Code M : M22*1.5 Manifold mount 4*M8,M14*1.5 Code S: 7/8-14 O-ring Manifold mount 4*M8,7/16-20UNF Code P: 1/2-14NPTF Manifold mount 4*M8,7/16-20UNF Code R: PT(Rc) 1/2 Manifold mount 4*M8,PT(Rc)1/4	Omit: Standard Code R: Opposite	Omit:Blue Code 00: No paint Code B:Black Code S:Silver Grey	Omit:Standard Code 0:No case drain Code N:Big radial force Code F:Free running Code LS:Low speed

BMH Series hydraulic orbit motor



Popular model drawing

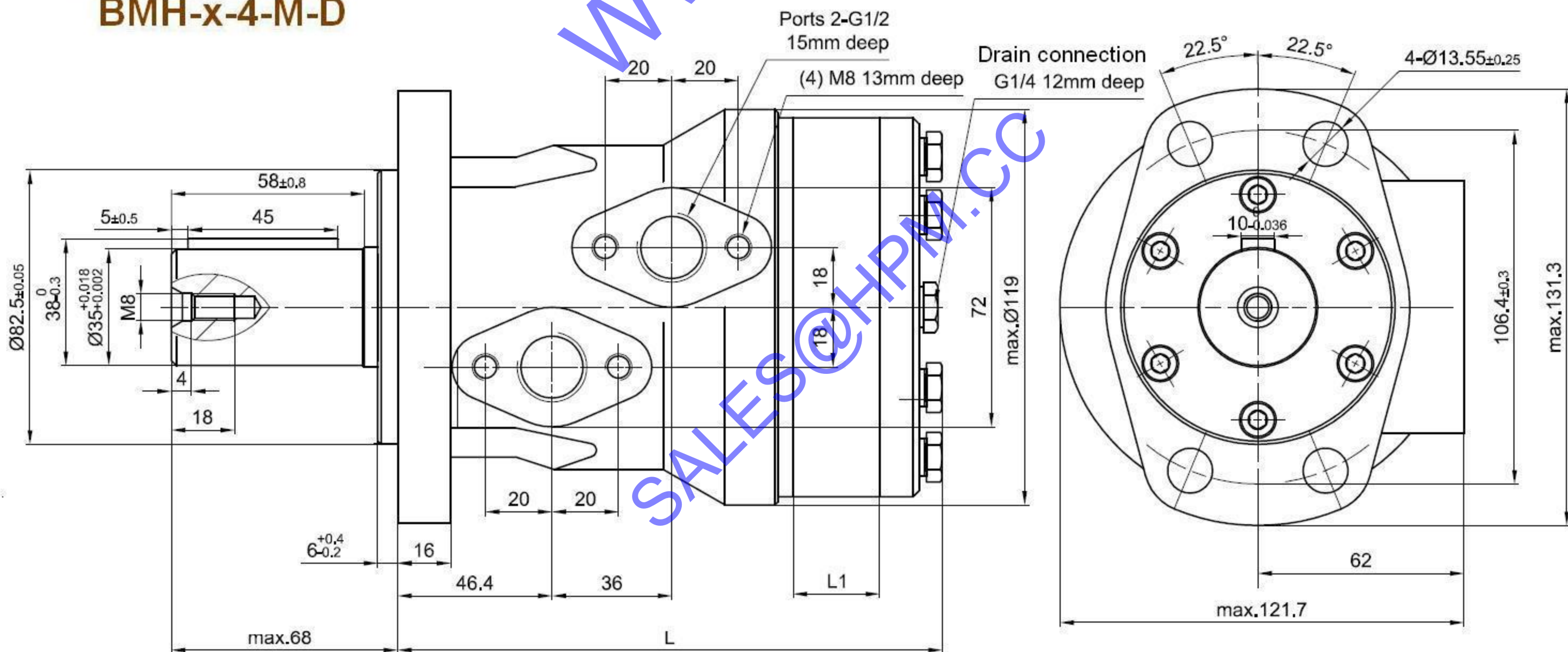
BMH-x-4-B-D



HPM Model	Danfoss Model	M+S Model	L mm	L1 mm
BMH-200-4BD**	151H-1002	EPMH-200C**	168	27
BMH-250-4BD**	151H-1003	EPMH-250C**	175	34
BMH-315-4BD**	151H-1004	EPMH-315C**	184	42
BMH-400-4BD**	151H-1005	EPMH-400C**	195	54
BMH-500-4BD**	151H-1006	EPMH-500C**	206	65

With Drain Port

BMH-x-4-M-D



HPM Model	Danfoss Model	M+S Model	L mm	L1 mm
BMH-200-4MD**	151H-1012	EPMH-200CB**	168	27
BMH-250-4MD**	151H-1013	EPMH-250CB**	175	34
BMH-315-4MD**	151H-1014	EPMH-315CB**	184	42
BMH-400-4MD**	151H-1015	EPMH-400CB**	195	54
BMH-500-4MD**	151H-1016	EPMH-500CB**	206	65

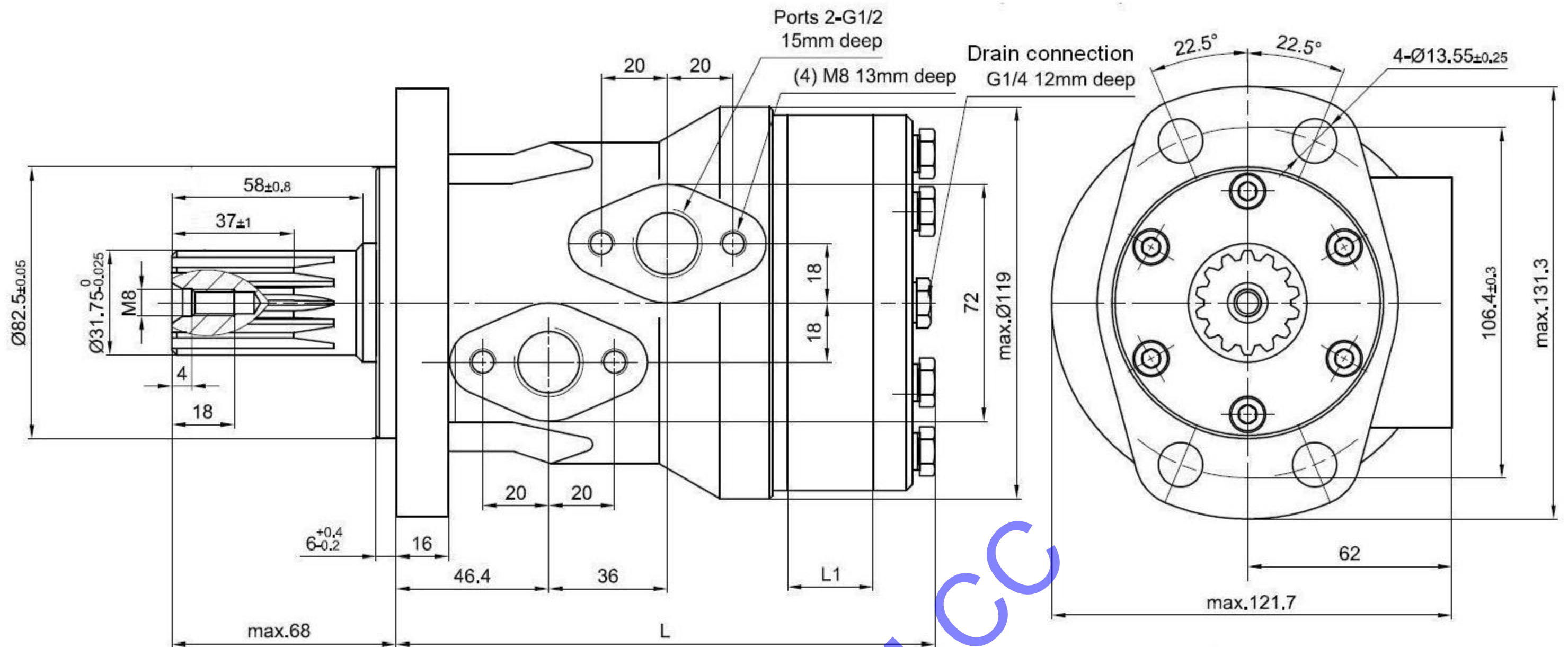
With Drain Port

BMH Series hydraulic orbit motor



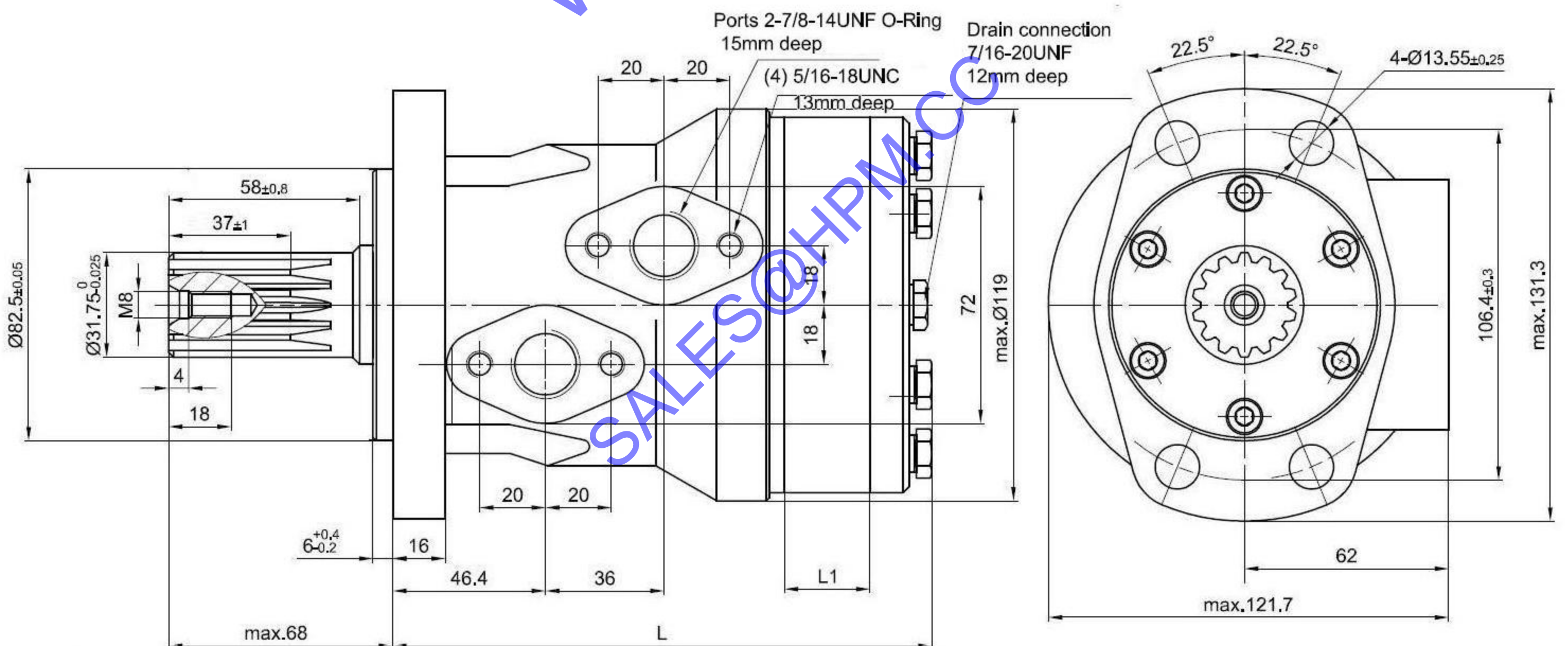
Popular model drawing

BMH-x-4FD-D



HPM Model	Danfoss Model	M+S Model	L mm	L1 mm
BMH-200-4FD-D**	151H-1022	EPMH-200SH**	168	27
BMH-250-4FD-D**	151H-1023	EPMH-250SH**	175	34
BMH-315-4FD-D**	151H-1024	EPMH-315SH**	184	42
BMH-400-4FD-D**	151H-1025	EPMH-400SH**	195	54
BMH-500-4FD-D**	151H-1026	EPMH-500SH**	206	65

BMH-x-4FD-S



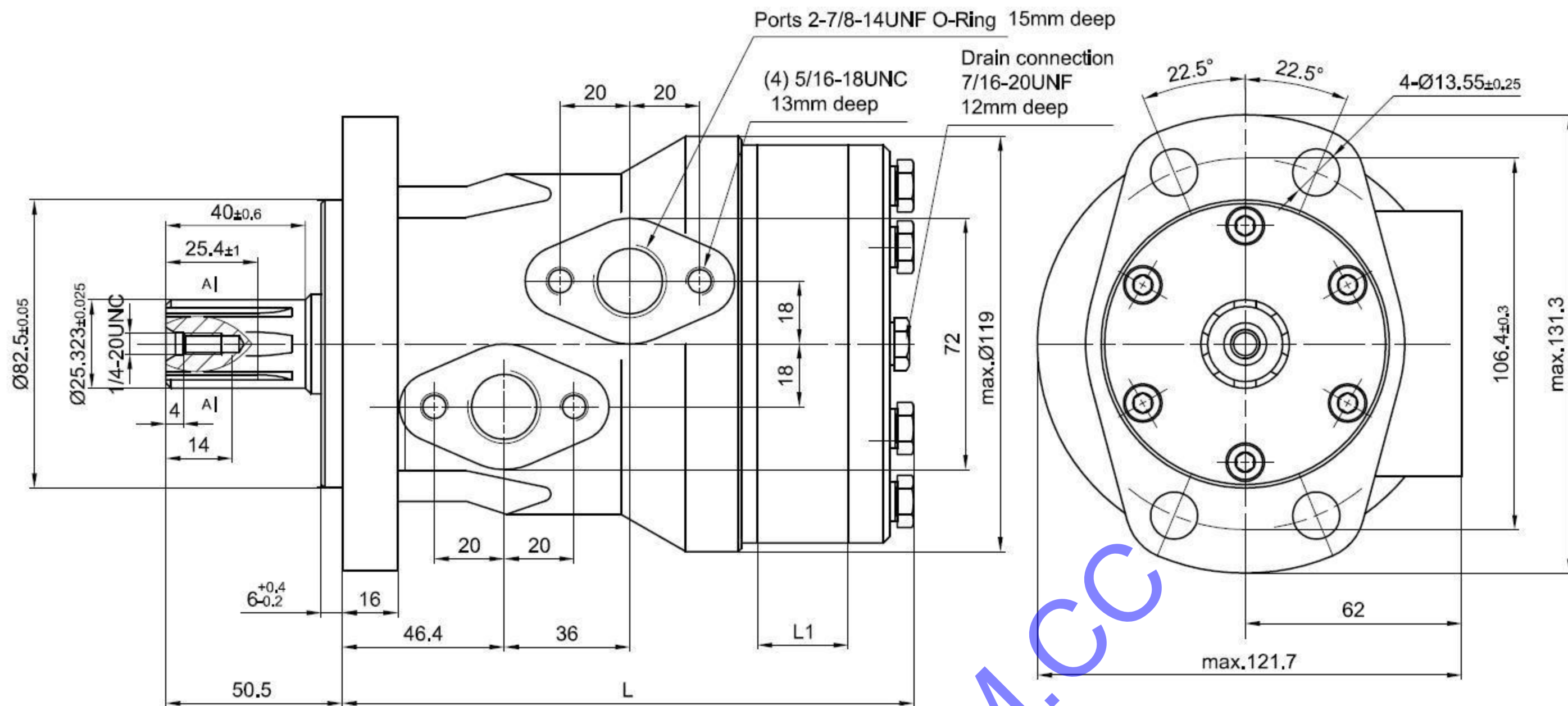
HPM Model	Danfoss Model	M+S Model	L mm	L1 mm
BMH-200-4FD-S**	151H-1052	MLHH-200L4**	168	27
BMH-250-4FD-S**	151H-1053	MLHH-250L4**	175	34
BMH-315-4FD-S**	151H-1054	MLHH-315L4**	184	42
BMH-400-4FD-S**	151H-1055	MLHH-400L4**	195	54
BMH-500-4FD-S**	151H-1056	MLHH-500L4**	206	65

BMH Series hydraulic orbit motor



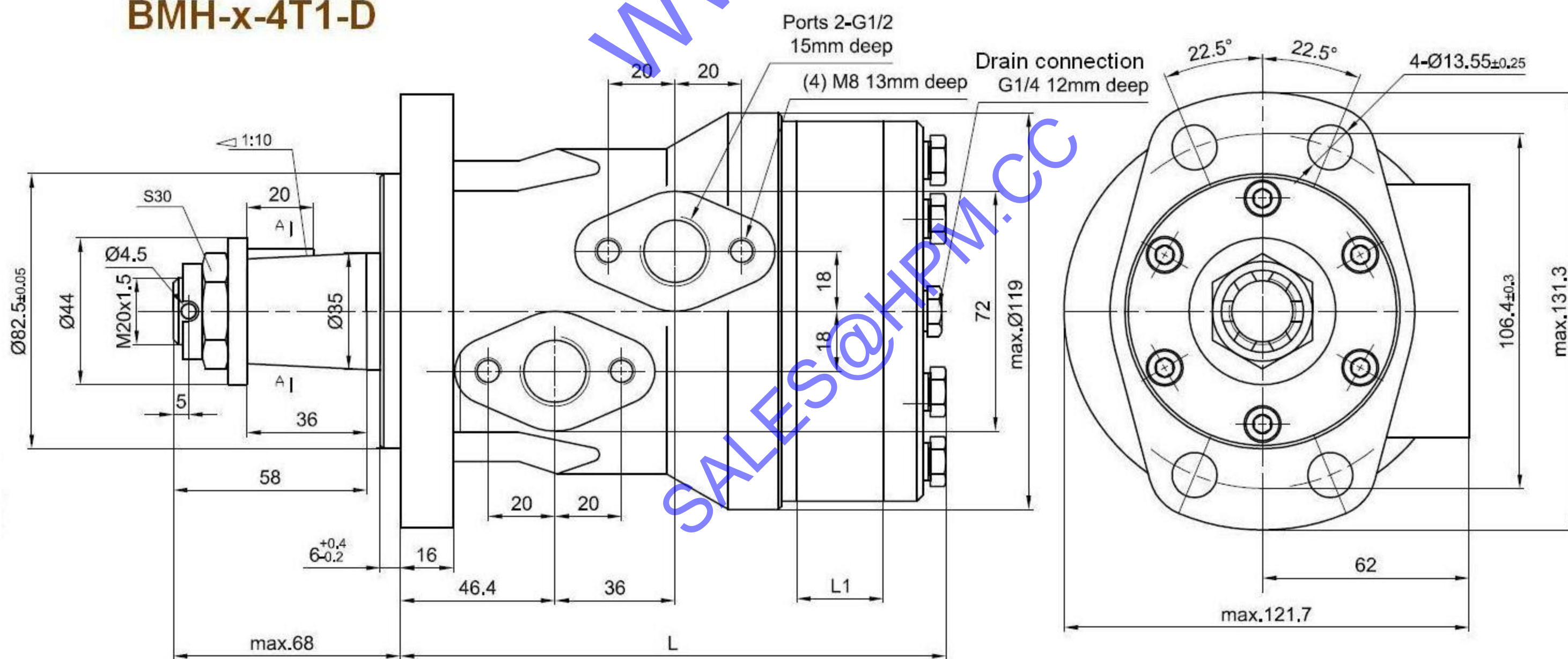
Popular model drawing

BMH-x-4S-S



HPM Model	Danfoss Model	
BMH-200-4SS**	151H-1080	With Drain Port
BMH-250-4SS**	151H-1082	
BMH-315-4SS**	151H-1083	
BMH-400-4SS**	151H-1084	
BMH-500-4SS**	151H-1081	

BMH-x-4T1-D



HPM Model	Danfoss Model	M+S Model	L mm	L1 mm
BMH-200-4T1D**		EPMH-200K**	168	27
BMH-250-4T1D**		EPMH250K**	175	34
BMH-315-4T1D**	151H-1034	EPMH-315K**	184	42
BMH-400-4T1D**	151H-1035	EPMH-400K**	195	54
BMH-500-4T1D**	151H-1036	EPMH-500K**	206	65

BMS Series hydraulic orbit motor



BMS(BMSY)-Replace with DANFOSS OMS SERIES,M+S EPMS/MLHS SERIES

BMSE-Replace with EATON 2000 SERIES

Parameters

Type		BMS BMSE BMSY -80	BMS BMSE BMSY -100	BMS BMSE BMSY -125	BMS BMSE BMSY -160	BMS BMSE BMSY -200	BMS BMSE BMSY -250	BMS BMSE BMSY -315	BMS BMSE BMSY -375	BMSY -475
Displacement		80.6	100.8	125	157.2	200	252	314.5	370	475
Max. speed (rpm)	cont.	800	748	600	470	375	300	240	200	155
	int.	988	900	720	560	450	360	280	240	185
Max. torque (N•m)	cont.	190	240	310	316	400	450	560	536	780
	int.	240	300	370	430	466	540	658	645	910
	peak	260	320	400	472	650	690	740	751	960
Max. output (KW)	cont.	15.9	18.8	19.5	15.6	15.7	14.1	14.1	11.8	9
	int.	20.1	23.5	23.2	21.2	18.3	17	18.9	17	11
Max.pressure drop (Mpa)	cont.	17.5	17.5	17.5	15	14	12.5	12	10	14
	int.	21	21	21	21	16	16	14	12	15
	peak	22.5	22.5	22.5	22.5	22.5	20	18.5	14	17.5
Max. flow (L/min)	cont.	65	75	75	75	75	75	75	75	75
	int.	80	90	90	90	90	90	90	90	90
Max.inlet pressure (Mpa)	cont.	25	25	25	25	25	25	25	25	25
	int.	30	30	30	30	30	30	30	30	30
Weight(kg) BMS BMSE		9.8	10	10.3	10.7	11.1	11.6	12.3	12.6	
Weight(kg) BMSY		10	10.3	10.6	11	11.4	12	12.8	13.4	14.3

Selection

1	2	3	4
Series	Displacement	Flange	Output shaft
BMS BMSY	80		Code A: Shaft Dia Ø25 , Parallel key 8×7×32 Code B: Shaft Dia Ø32 , Parallel key 10×8×45
	100	Code E2: 2-Ø13.5 Rhomb-flange, Ø 106.4, pilot Ø82.5×6.3	Code D: Shaft Dia Ø25.4 , Parallel key 6.35×6.35×31.75
	125	Code E4: 4-Ø13.5 Rhomb-flange, Ø 106.4 , pilot Ø82.5×6.3	Code F: Shaft Dia Ø31.75 , Splined tooth 14-DP12/24
	160	Code F6: 6-Ø13.5 Rhomb-flange , Ø 106.4 , pilot Ø82.5×2.6	Code FD: Shaft Dia Ø31.75 Long shaft , Splined tooth 14-DP12/24
	200	Code E2B: 2-Ø14.3 Rhomb-flange , Ø 146.05 , pilot Ø101.6×9.4	Code G: Shaft Dia Ø31.75,Parallel key 7.95×7.95×31.75
	250	Code SP: 4-Ø11.5 Square-flange , Ø 106.4 , pilot Ø82.5×6.3	Code SL: Shaft Dia Ø34.85,Splined key 6-34.85×28.14×8.64
	315	Code W: 4-Ø13.5 Wheel-flange , Ø 160 , pilot Ø125×8	Code T1: Shaft Dia Ø 35 Cone shaft ,Parallel key 6×6×20
	375		Code T3: Shaft Dia Ø 31.75 Cone shaft ,Parallel key 7.96×7.96×31.75
	475		Code S1: Shaft Dia Ø25.4 Splined SAE 6B
BMSS BMSYS	80-375	Code D: 4-Ø11 Circle-flange , Ø125 , pilot Ø100×6 Code E: 4-Ø13.5 Square-flange , Ø 127, pilot Ø101.6×6.3	Omit : Short shaft 12-DP12/24

BMS Series hydraulic orbit motor



5	6	7	8
Port and drain port	Rotation direction	Paint	Unusually function
Code D: G1/2 Manifold mount 2*M10,G1/4 Code M : M22*1.5 Manifold mount 2*M10,M14*1.5 Code S: 7/8-14UNF O-ring Manifold mount 2*3/8-16,7/16-20UNF Code P: 1/2-14NPTF Manifold mount 4*5/16-18UNC,7/16-20UNF	Omit: Standard Code R: Opposite	Omit: Blue Code 00: No paint Code B: Black Code S: Silver Grey	Omit: Standard Code F: Free running Code LS: Low speed

Selection

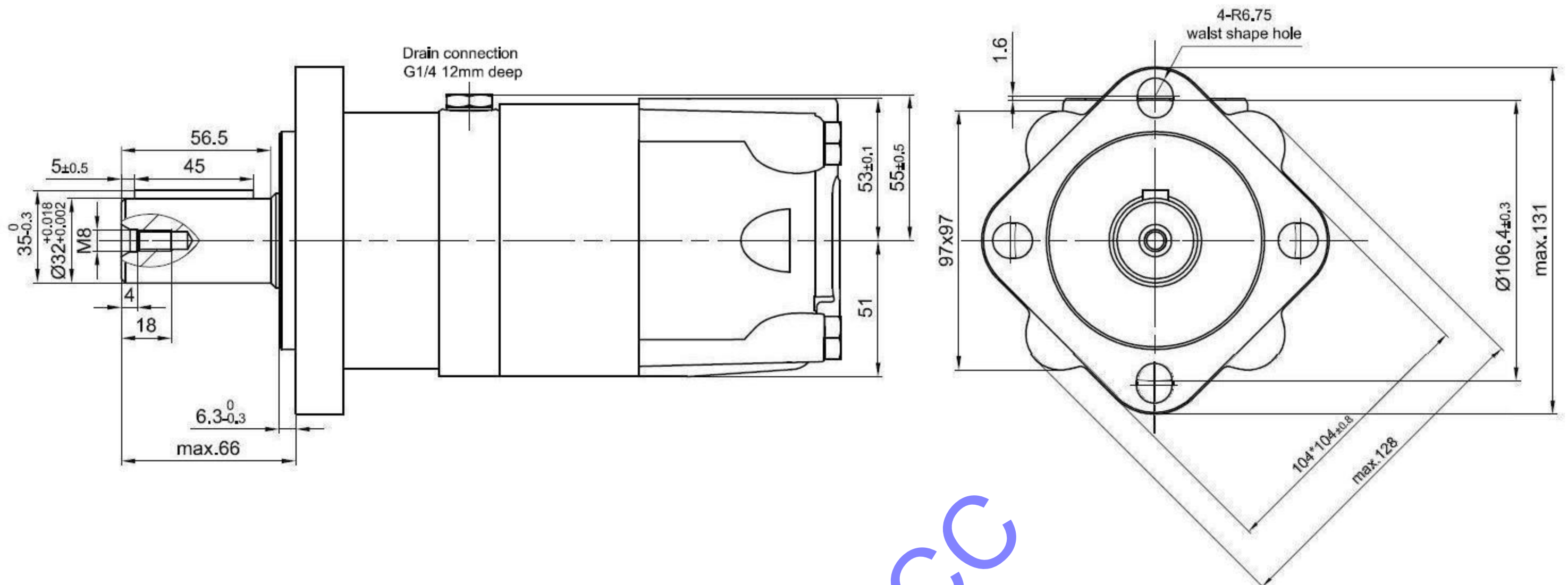
1	2	3	4
Series	Displacement	Flange	Output shaft
BMSE	80	Code E2: 2-Ø13.5 Rhomb-flange, Ø 106.4, pilot Ø82.5×6.3 Code E4: 4-Ø13.5 Rhomb-flange, Ø 106.4, pilot Ø82.5×6.3 Code E6: 6-Ø13.5 Rhomb-flange, Ø 106.4, pilot Ø82.5×6.3 Code E2B: 2-Ø14.3 Rhomb-flange, Ø 146.05, pilot Ø101.6×9.4 Code WE : 4-Ø13.6 Wheel-flange, Ø 147.6, pilot Ø107.95×6.4	Code A: Shaft Dia Ø25, Parallel key 8×7×32 Code B: Shaft Dia Ø32, Parallel key 10×8×45 Code K: Shaft Dia Ø25.4, Woodruff key Ø 25.4×6.35 Code F: Shaft Dia Ø31.75, Splined tooth 14-DP12/24 Code G: Shaft Dia Ø31.75,Parallel key 7.96×7.96×31.75 Code T4: Shaft Dia Ø 31.75 Cone shaft,Parallel key 7.96×7.96×25.4 Code S1: Shaft Dia Ø25.4 Splined tooth SAE 6B
	100		
	125		
	160		
	200		
	250		
	315		
	375		
BMSJ	80-375	Code J: 4-Ø13.5 Square-flange, Ø 127, pilot Ø101.6×6.3	Omit : Short shaft 12-DP12/24
5	6	7	8
Port and drain port	Rotation direction	Paint	Unusually function
Code DB: G1/2 ,G1/4 Code DU: G1/2,7/16-20UNF Code SB: 7/8-14UNF O-ring,G1/4 Code SU: 7/8-14UNF O-ring,7/16-20UNF Code MU: 1/2" ,5/8" Crosshole Manifold 3×3/8-16UNC,7/16-20UNF Code M4: M22*1.5 ,M14*1.5 Code MM: 1/2" ,5/8" Crosshole Manifold 3×M10,G1/4 Code ED: 1-1/16-12UNF O-ring,7/16-20UNF (ED=180° opposite) Code EE-D: G1/2 ,G1/4 Code EE-M2: M22*1.5 ,M14*1.5 Code EE-S2: 7/8-14 O-ring, 7/16-20UNF (EE-*=End ports)	Omit: Standard Code R: Opposite	Omit: Blue Code 00: No paint Code B: Black Code S: Silver Grey	Omit: Standard Code F: Free running Code LS: Low speed

BMS Series hydraulic orbit motor



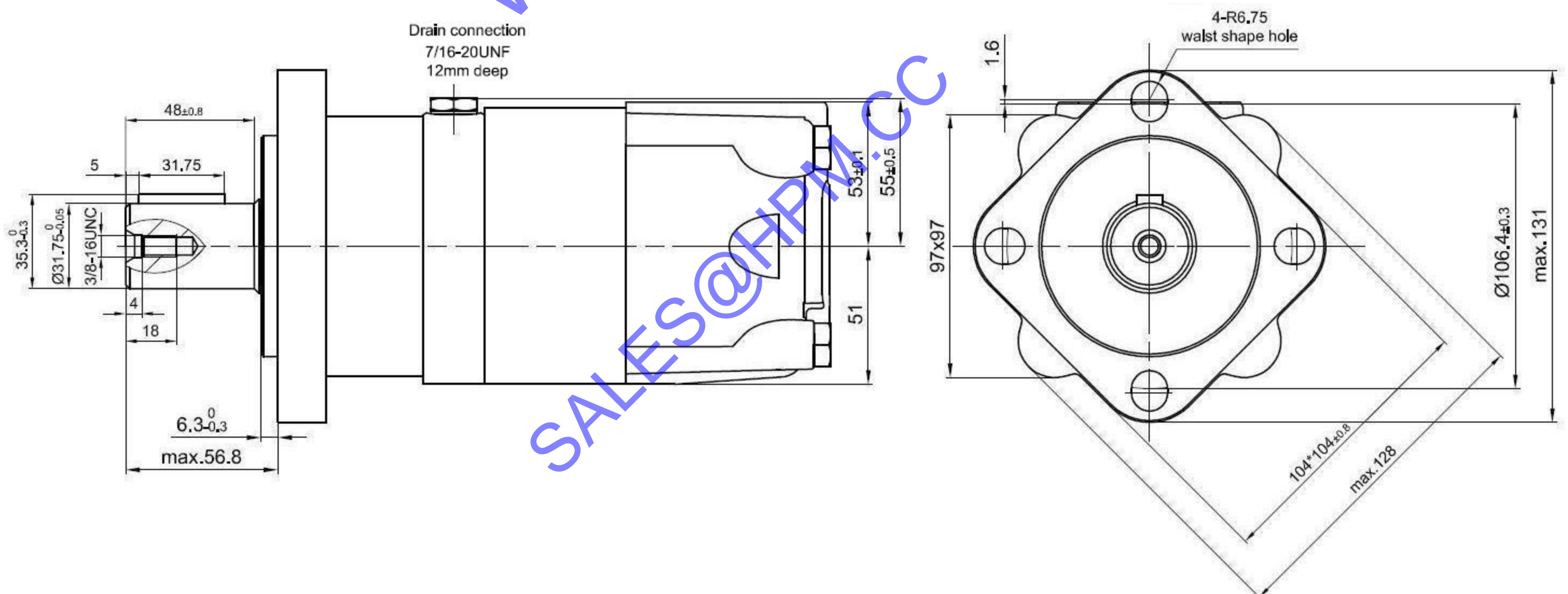
Popular model drawing

BMS(Y)-x-E4-B-D



HPM Model	Danfoss Model	M+S Model	L mm	L1 mm	L2 mm	
BMS(Y)-80-E4-B-D	151F-0500	With Drain Port EPMS-80C**	170	16	126.5	
BMS(Y)-100-E4-B-D	151F-0501		EPMS-100C**	174	20	130.5
BMS(Y)-125-E4-B-D	151F-0502		EPMS-125C**	179	25	135.5
BMS(Y)-160-E4-B-D	151F-0503		EPMS-160C**	181	27	137.5
BMS(Y)-200-E4-B-D	151F-0504		EPMS-200C**	188	34	144.5
BMS(Y)-250-E4-B-D	151F-0505		EPMS-250C**	196	42	152.5
BMS(Y)-315-E4-B-D	151F-0506		EPMS-315C**	208	54	164.5
BMS(Y)-375-E4-B-D	151F-0605		EPMS-400C**	223	69	179.5

BMS(Y)-x-E4-G-S

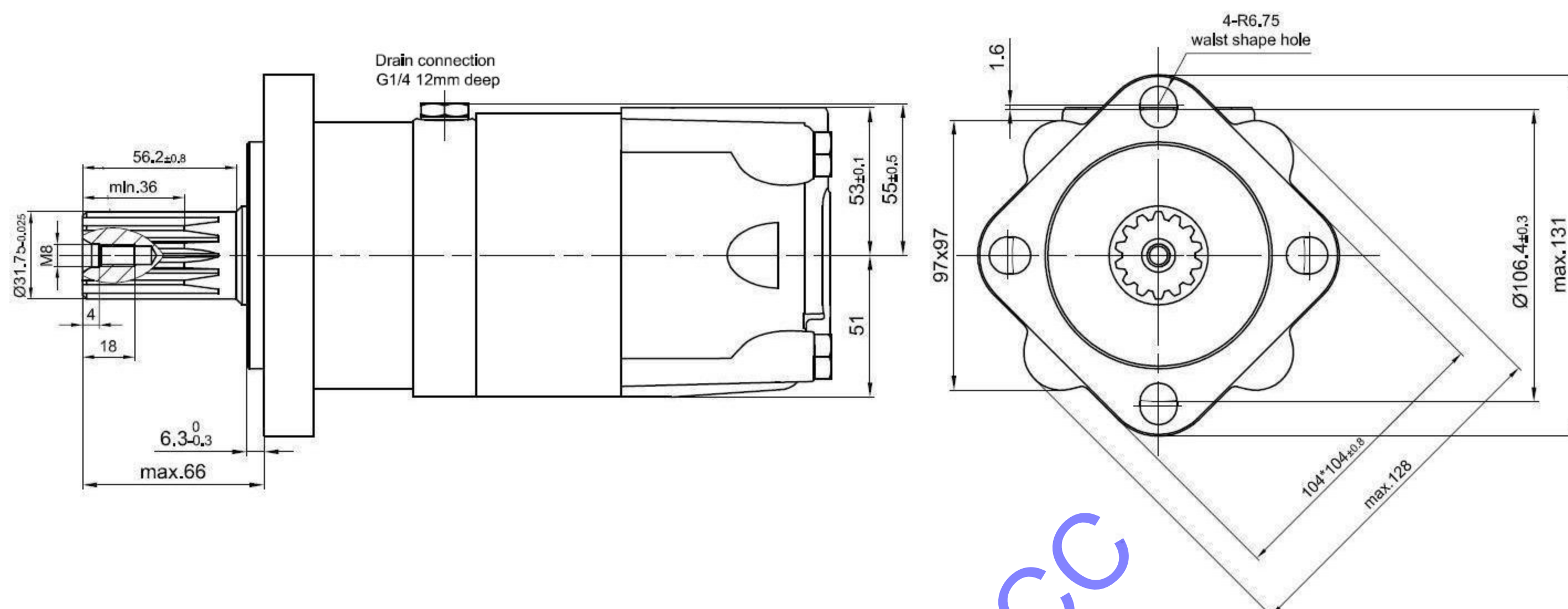


HPM Model	Danfoss Model	M+S Model	L mm	L1 mm	L2 mm	
BMS(Y)-80-E4-G-S	151F-2200	With Drain Port MLHS-80C**	170	16	126.5	
BMS(Y)-100-E4-G-S	151F-2201		MLHS-100C**	174	20	130.5
BMS(Y)-125-E4-G-S	151F-2202		MLHS-125C**	179	25	135.5
BMS(Y)-160-E4-G-S	151F-2203		MLHS-160C**	181	27	137.5
BMS(Y)-200-E4-G-S	151F-2204		MLHS-200C**	188	34	144.5
BMS(Y)-250-E4-G-S	151F-2205		MLHS-250C**	196	42	152.5
BMS(Y)-315-E4-G-S	151F-2206		MLHS-315C**	208	54	164.5
BMS(Y)-375-E4-G-S	151F-2261		MLHS-400C**	223	69	179.5
BMS(Y)-475-E4-G-S	151F-2268	MLHS-475C**	237	83	193.5	

BMS Series hydraulic orbit motor

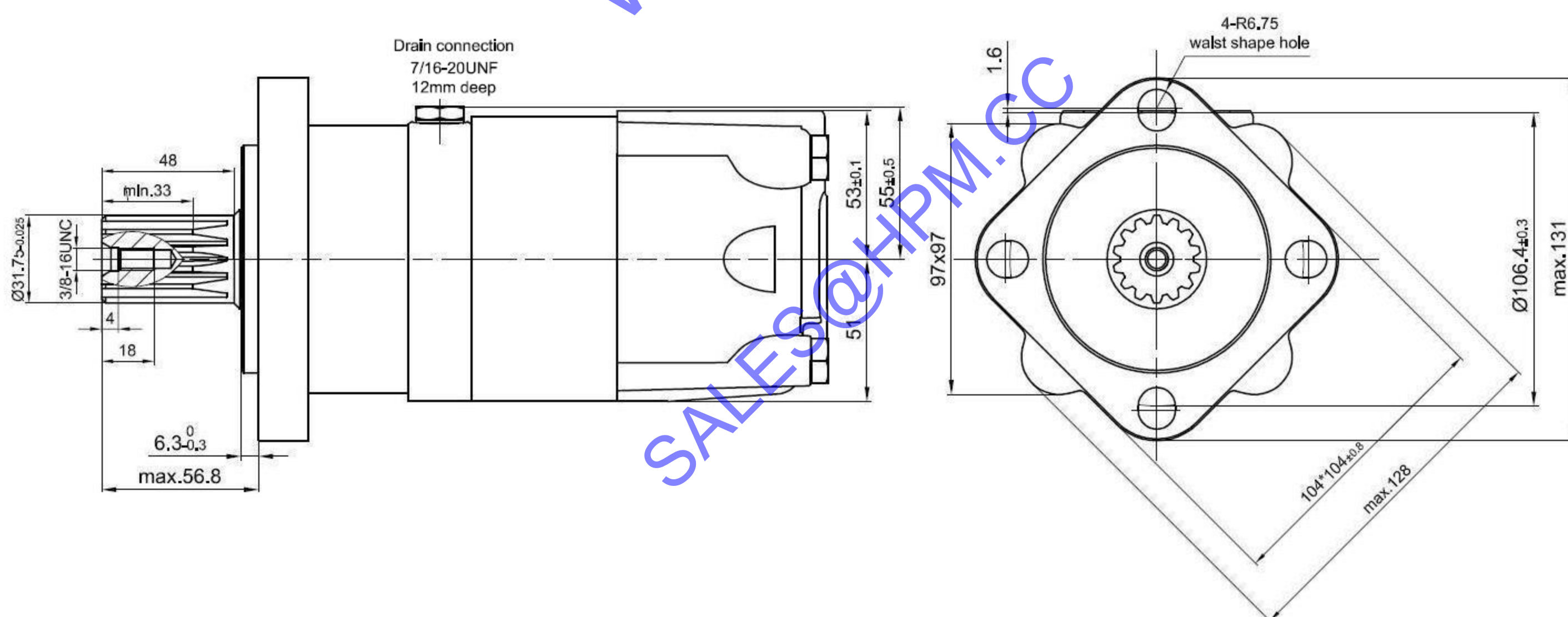
Popular model drawing

BMS(Y)-x-E4-FD-D



HPM Model	Danfoss Model	M+S Model	L mm	L1 mm	L2 mm
BMS(Y)-80-E4-FD-D	151F-0507	EPMS-80SH**	170	16	126.5
BMS(Y)-100-E4-FD-D	151F-0508	EPMS-100SH**	174	20	130.5
BMS(Y)-125-E4-FD-D	151F-0509	EPMS-125SH**	179	25	135.5
BMS(Y)-160-E4-FD-D	151F-0510	EPMS-160SH**	181	27	137.5
BMS(Y)-200-E4-FD-D	151F-0511	EPMS-200SH**	188	34	144.5
BMS(Y)-250-E4-FD-D	151F-0512	EPMS-250SH**	196	42	152.5
BMS(Y)-315-E4-FD-D	151F-0513	EPMS-315SH**	208	54	164.5
BMS(Y)-375-E4-FD-D		EPMS-400SH**	223	69	179.5

BMS(Y)-x-E4-F-S



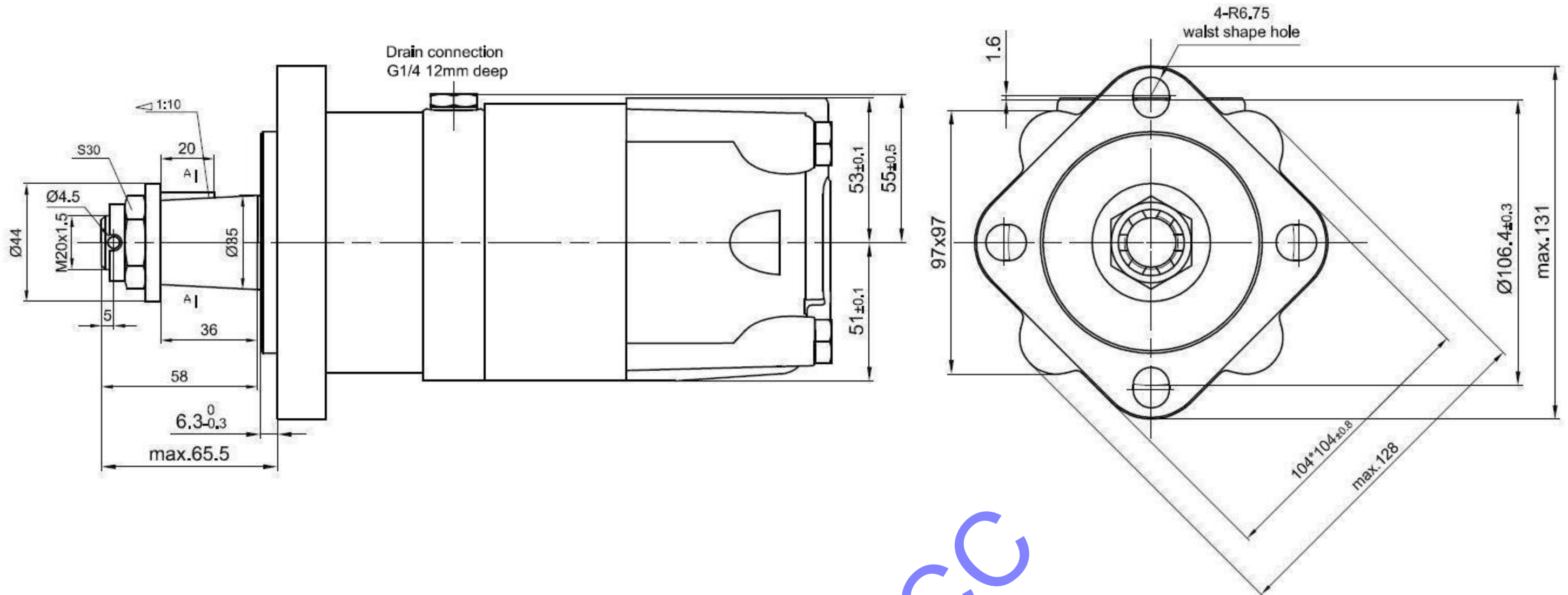
HPM Model	Danfoss Model	M+S Model	L mm	L1 mm	L2 mm
BMS(Y)-80-E4-F-S	151F-2207	MLHS-80G**	170	16	126.5
BMS(Y)-100-E4-F-S	151F-2208	MLHS-100G**	174	20	130.5
BMS(Y)-125-E4-F-S	151F-2209	MLHS-125G**	179	25	135.5
BMS(Y)-160-E4-F-S	151F-2210	MLHS-160G**	181	27	137.5
BMS(Y)-200-E4-F-S	151F-2211	MLHS-200G**	188	34	144.5
BMS(Y)-250-E4-F-S	151F-2212	MLHS-250G**	196	42	152.5
BMS(Y)-315-E4-F-S	151F-2213	MLHS-315G**	208	54	164.5
BMS(Y)-375-E4-F-S	151F-2262	MLHS-400G**	223	69	179.5
BMS(Y)-475-E4-F-S	151F-2269	MLHS-475G**	237	83	193.5

BMS Series hydraulic orbit motor



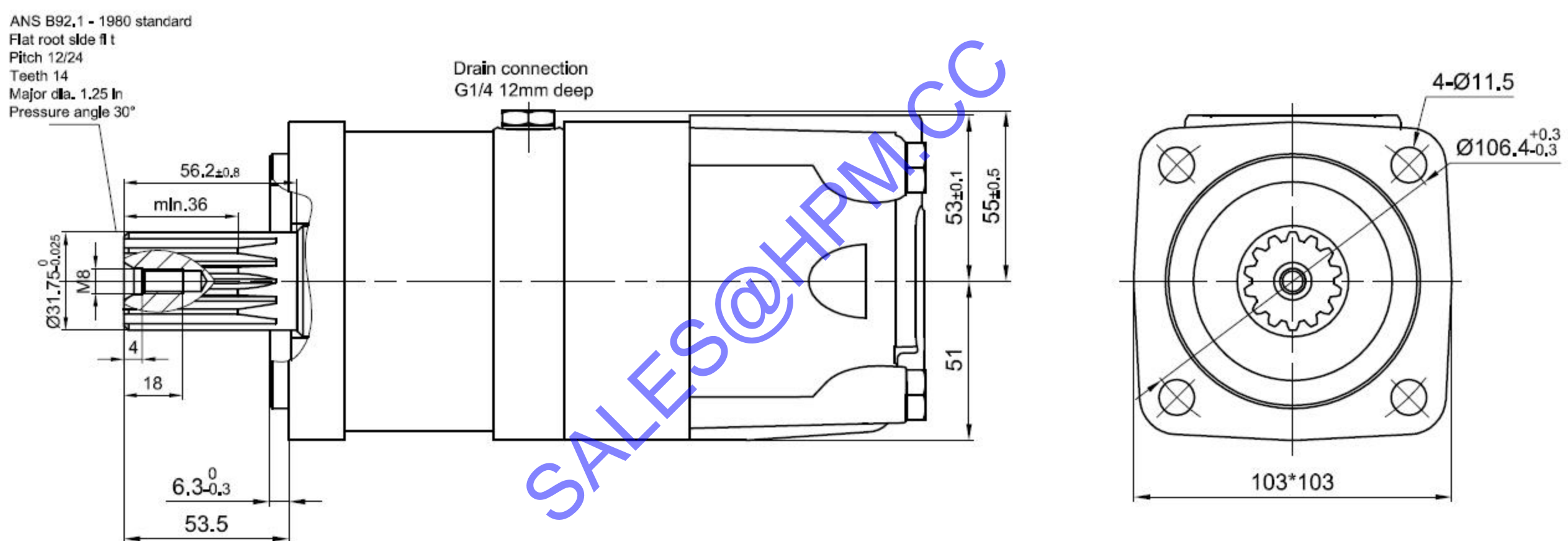
Popular model drawing

BMS(Y)-x-E4-T1-D



HPM Model	Danfoss Model	M+S Model	L mm	L1 mm	L2 mm
BMS(Y)-80-E4-T1-D	151F-0514	EPMS-80K**	170	16	126.5
BMS(Y)-100-E4-T1-D	151F-0515	EPMS-100K**	174	20	130.5
BMS(Y)-125-E4-T1-D	151F-0516	EPMS-125K**	179	25	135.5
BMS(Y)-160-E4-T1-D	151F-0517	EPMS-160K**	181	27	137.5
BMS(Y)-200-E4-T1-D	151F-0518	EPMS-200K**	188	34	144.5
BMS(Y)-250-E4-T1-D	151F-0519	EPMS-250K**	196	42	152.5
BMS(Y)-315-E4-T1-D	151F-0520	EPMS-315K**	208	54	164.5
BMS(Y)-375-E4-T1-D		EPMS-400K**	223	69	179.5

BMS(Y)-x-SP-G-D



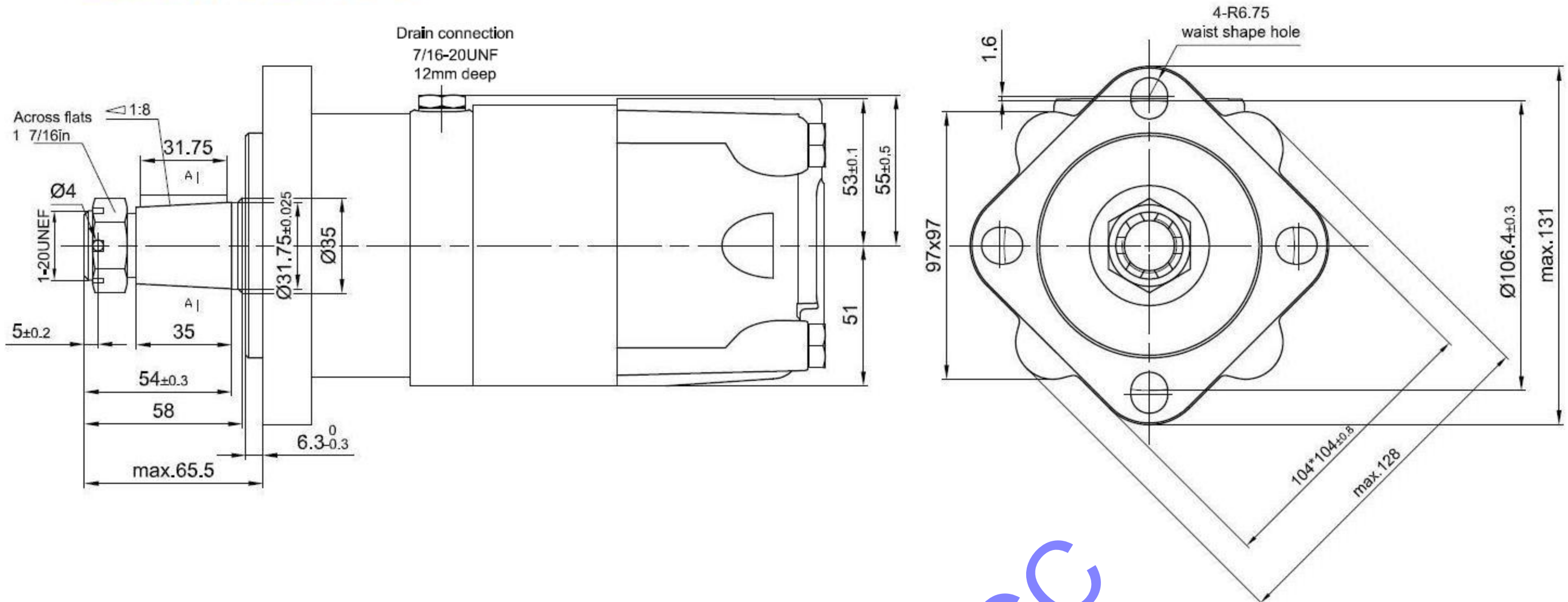
HPM Model	Danfoss Model	M+S Model	L mm	L1 mm	L2 mm
BMS(Y)-80-SP-FD-D	151F-0542	EPMS-Q80SH**	170	16	126.5
BMS(Y)-100-SP-FD-D	151F-0543	EPMS-Q100SH**	174	20	130.5
BMS(Y)-125-SP-FD-D	151F-0544	EPMS-Q125SH**	179	25	135.5
BMS(Y)-160-SP-FD-D	151F-0545	EPMS-Q160SH**	181	27	137.5
BMS(Y)-200-SP-FD-D	151F-0546	EPMS-Q200SH**	188	34	144.5
BMS(Y)-250-SP-FD-D	151F-0547	EPMS-Q250SH**	196	42	152.5
BMS(Y)-315-SP-FD-D	151F-0548	EPMS-Q315SH**	208	54	164.5
BMS(Y)-375-SP-FD-D		EPMS-Q400SH**	223	69	179.5

BMS Series hydraulic orbit motor



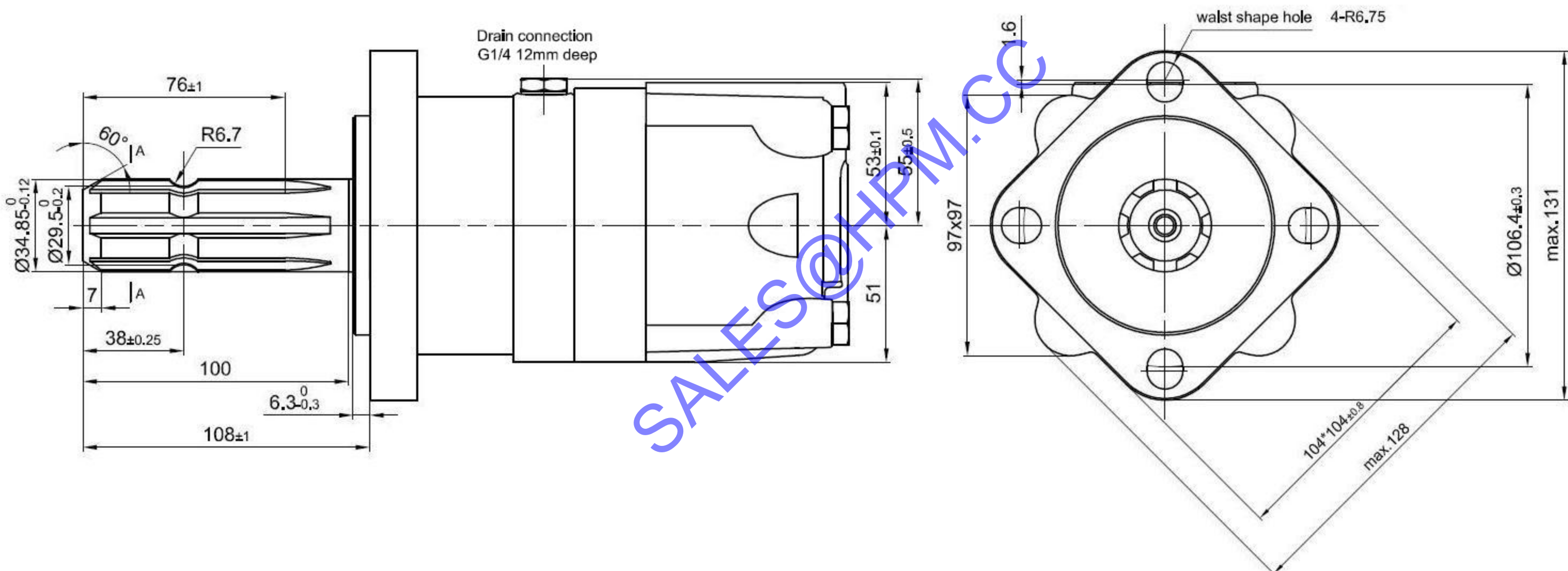
Popular model drawing

BMS(Y)-x-E4-T3-S



HPM Model	Danfoss Model	M+S Model	L mm	L1 mm	L2 mm
BMS(Y)-80-E4-T3-S	151F-2214	MLHS-80T4**	170	16	126.5
BMS(Y)-100-E4-T3-S	151F-2215	MLHS-100T4**	174	20	130.5
BMS(Y)-125-E4-T3-S	151F-2216	MLHS-125T4**	179	25	135.5
BMS(Y)-160-E4-T3-S	151F-2217	MLHS-160T4**	181	27	137.5
BMS(Y)-200-E4-T3-S	151F-2218	MLHS-200T4**	188	34	144.5
BMS(Y)-250-E4-T3-S	151F-2219	MLHS-250T4**	196	42	152.5
BMS(Y)-315-E4-T3-S	151F-2220	MLHS-315T4**	208	54	164.5
BMS(Y)-375-E4-T3-S	151F-2264	MLHS-400T4**	223	69	179.5
BMS(Y)-475-E4-T3-S	151F-2270	MLHS-475T4**	237	83	193.5

BMS(Y)-x-E4-SL-D



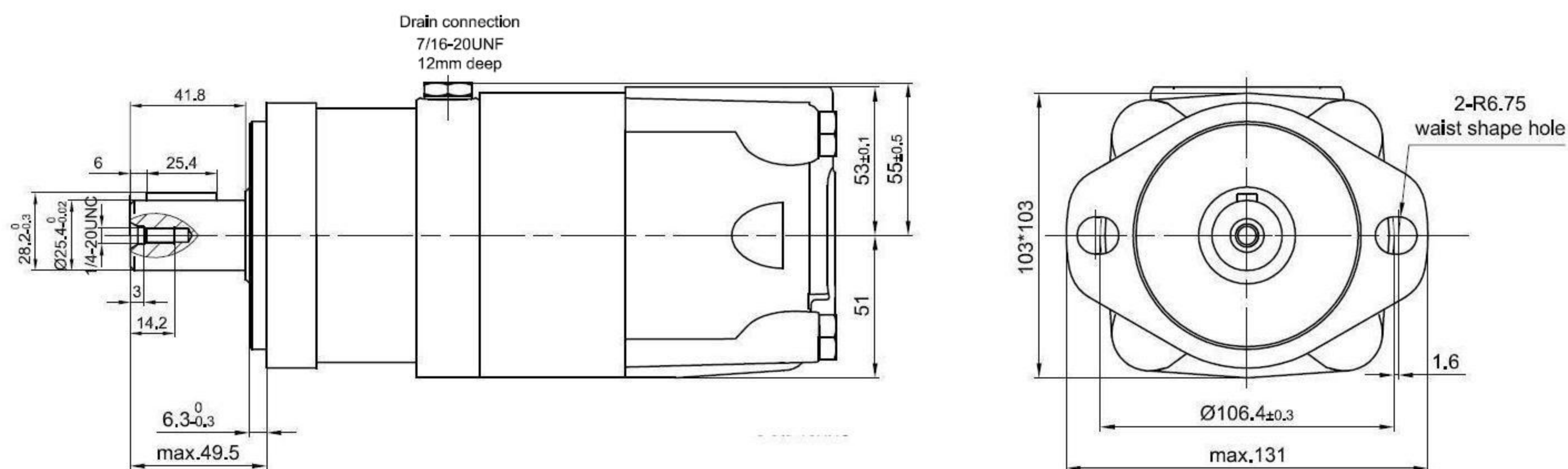
HPM Model	Danfoss Model	M+S Model	L mm	L1 mm	L2 mm
BMS(Y)-80-E4-SL-D	151F-0560	EPMS-80SL**	170	16	126.5
BMS(Y)-100-E4-SL-D	151F-0561	EPMS-100SL**	174	20	130.5
BMS(Y)-125-E4-SL-D	151F-0562	EPMS-125SL**	179	25	135.5
BMS(Y)-160-E4-SL-D	151F-0563	EPMS-160SL**	181	27	137.5
BMS(Y)-200-E4-SL-D	151F-0564	EPMS-200SL**	188	34	144.5
BMS(Y)-250-E4-SL-D	151F-0565	EPMS-250SL**	196	42	152.5
BMS(Y)-315-E4-SL-D	151F-0566	EPMS-315SL**	208	54	164.5
BMS(Y)-375-E4-SL-D		EPMS-400SL**	223	69	179.5
BMS(Y)-475-E4-SL-D			237	83	193.5

BMS Series hydraulic orbit motor



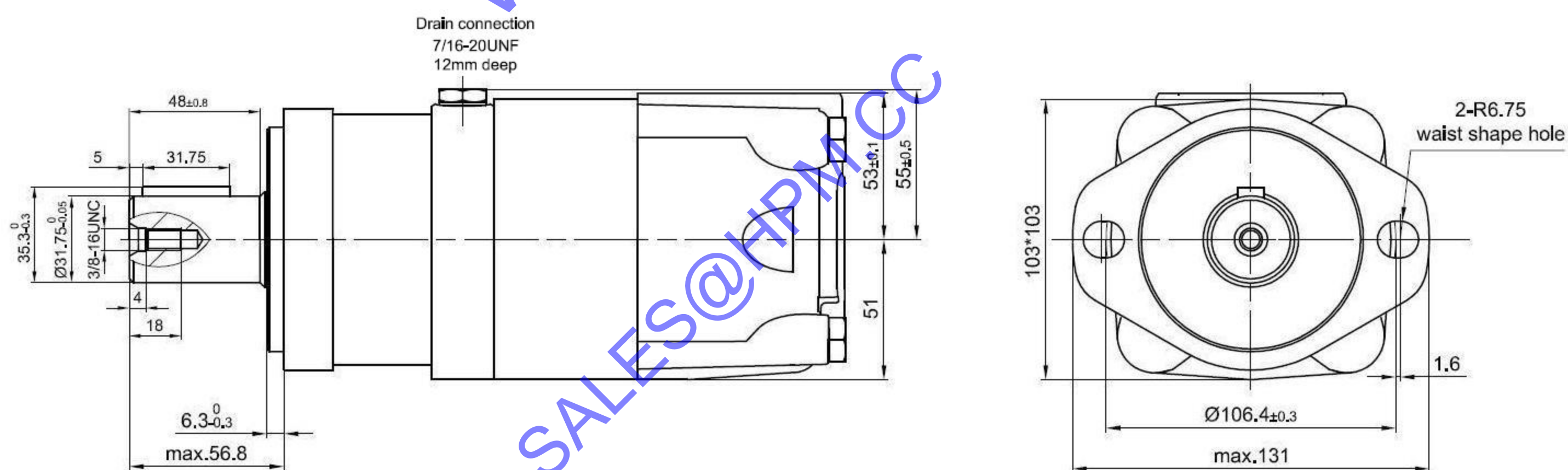
Popular model drawing

BMS(Y)-x-E2-D-S



HPM Model	Danfoss Model	M+S Model	L mm	L1 mm	L2 mm	
BMS(Y)-80-E2-D-S	151F-2300	With Drain Port MLHS-A-80D**	170	16	126.5	
BMS(Y)-100-E2-D-S	151F-2301		MLHS-A-100D**	174	20	130.5
BMS(Y)-125-E2-D-S	151F-2302		MLHS-A-125D**	179	25	135.5
BMS(Y)-160-E2-D-S	151F-2303		MLHS-A-160D**	181	27	137.5
BMS(Y)-200-E2-D-S	151F-2304		MLHS-A-200D**	188	34	144.5
BMS(Y)-250-E2-D-S	151F-2305		MLHS-A-250D**	196	42	152.5
BMS(Y)-315-E2-D-S	151F-2306		MLHS-A-315D**	208	54	164.5
BMS(Y)-375-E2-D-S	151F-2307		MLHS-A-400D**	223	69	179.5
BMS(Y)-475-E2-D-S	151F-2345		MLHS-A-475D**	237	83	193.5

BMS(Y)-x-E2-G-S

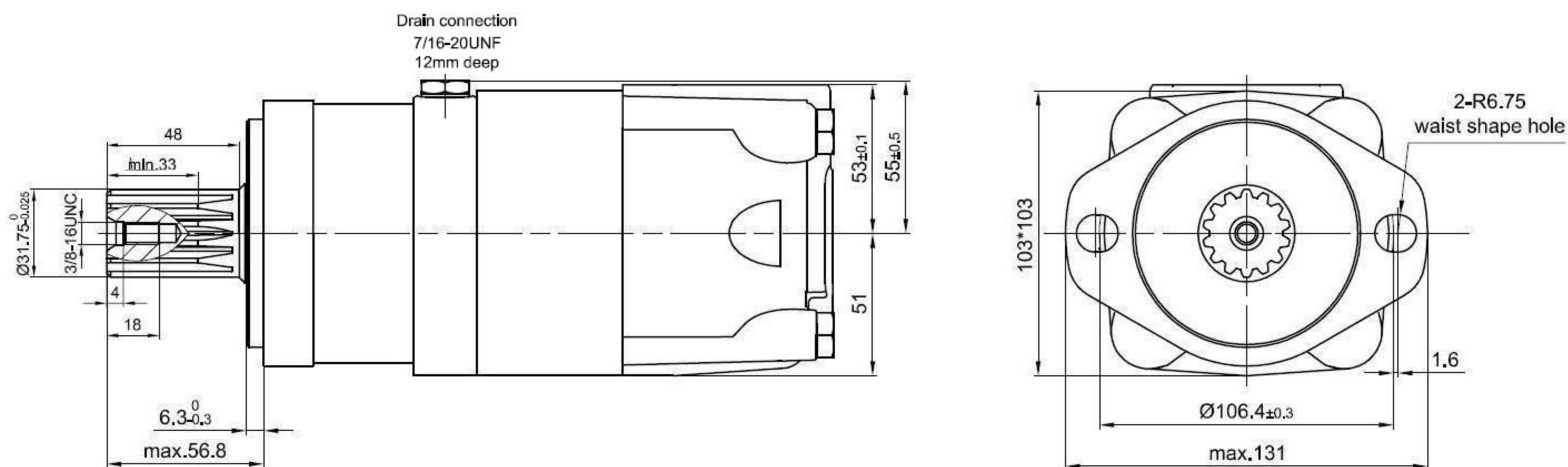


HPM Model	Danfoss Model	M+S Model	L mm	L1 mm	L2 mm	
BMS(Y)-80-E2-G-S	151F-2316	With Drain Port MLHS-A-80C**	170	16	126.5	
BMS(Y)-100-E2-G-S	151F-2317		MLHS-A-100C**	174	20	130.5
BMS(Y)-125-E2-G-S	151F-2318		MLHS-A-125C**	179	25	135.5
BMS(Y)-160-E2-G-S	151F-2319		MLHS-A-160C**	181	27	137.5
BMS(Y)-200-E2-G-S	151F-2320		MLHS-A-200C**	188	34	144.5
BMS(Y)-250-E2-G-S	151F-2321		MLHS-A-250C**	196	42	152.5
BMS(Y)-315-E2-G-S	151F-2322		MLHS-A-315C**	208	54	164.5
BMS(Y)-375-E2-G-S	151F-2323		MLHS-A-400C**	223	69	179.5
BMS(Y)-475-E2-G-S	151F-2347		MLHS-A-475C**	237	83	193.5

BMS Series hydraulic orbit motor

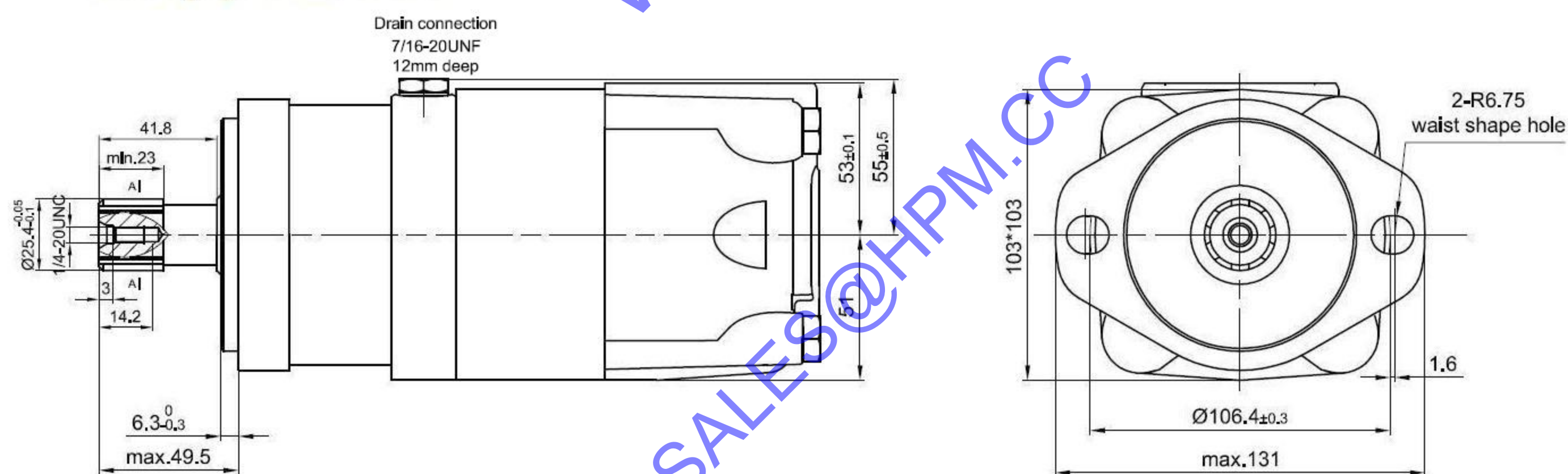
Popular model drawing

BMS(Y)-x-E2-F-S



HPM Model	Danfoss Model	M+S Model	L mm	L1 mm	L2 mm	
BMS(Y)-80-E2-F-S	151F-2324	With Drain Port MLHS-A-80G**	170	16	126.5	
BMS(Y)-100-E2-F-S	151F-2325		MLHS-A-100G**	174	20	130.5
BMS(Y)-125-E2-F-S	151F-2326		MLHS-A-125G**	179	25	135.5
BMS(Y)-160-E2-F-S	151F-2327		MLHS-A-160G**	181	27	137.5
BMS(Y)-200-E2-F-S	151F-2328		MLHS-A-200G**	188	34	144.5
BMS(Y)-250-E2-F-S	151F-2329		MLHS-A-250G**	196	42	152.5
BMS(Y)-315-E2-F-S	151F-2330		MLHS-A-315G**	208	54	164.5
BMS(Y)-375-E2-F-S	151F-2331		MLHS-A-400G**	223	69	179.5
BMS(Y)-475-E2-F-S	151F-2348		MLHS-A-475G**	237	83	193.5

BMS(Y)-x-E2-S1-S



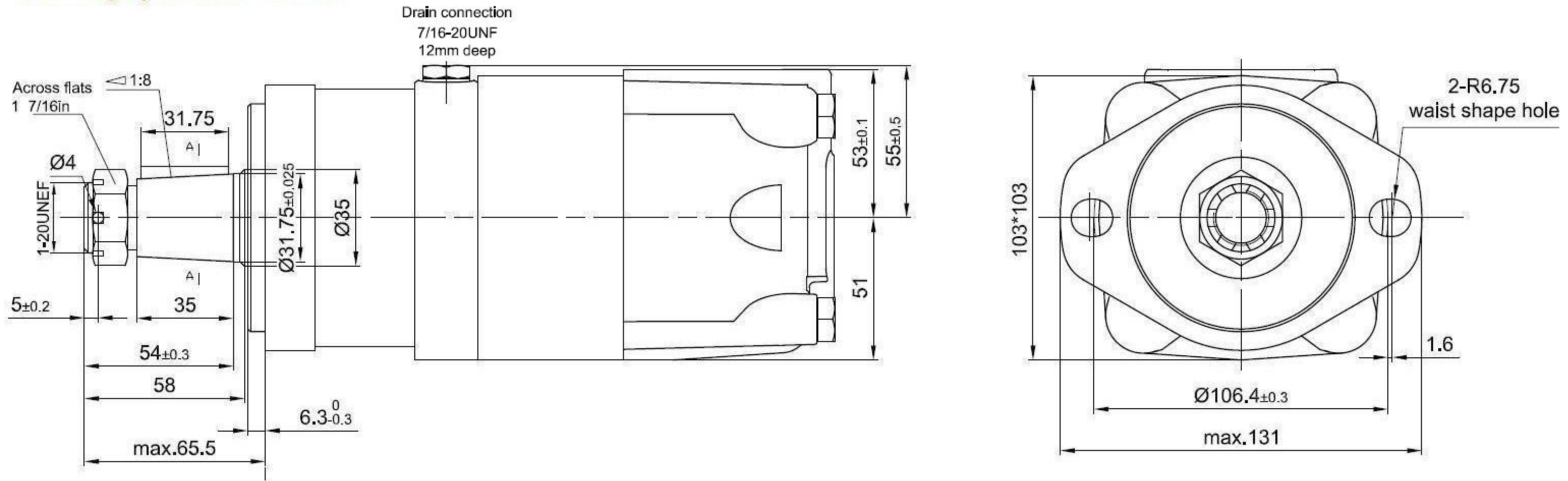
HPM Model	Danfoss Model	M+S Model	L mm	L1 mm	L2 mm	
BMS(Y)-80-E2-S1-S	151F-2308	With Drain Port MLHS-A-80S**	170	16	126.5	
BMS(Y)-100-E2-S1-S	151F-2309		MLHS-A-100S**	174	20	130.5
BMS(Y)-125-E2-S1-S	151F-2310		MLHS-A-125S**	179	25	135.5
BMS(Y)-160-E2-S1-S	151F-2311		MLHS-A-160S**	181	27	137.5
BMS(Y)-200-E2-S1-S	151F-2312		MLHS-A-200S**	188	34	144.5
BMS(Y)-250-E2-S1-S	151F-2313		MLHS-A-250S**	196	42	152.5
BMS(Y)-315-E2-S1-S	151F-2314		MLHS-A-315S**	208	54	164.5
BMS(Y)-375-E2-S1-S	151F-2315		MLHS-A-400S**	223	69	179.5
BMS(Y)-475-E2-S1-S	151F-2346		MLHS-A-475S**	237	83	193.5

BMS Series hydraulic orbit motor



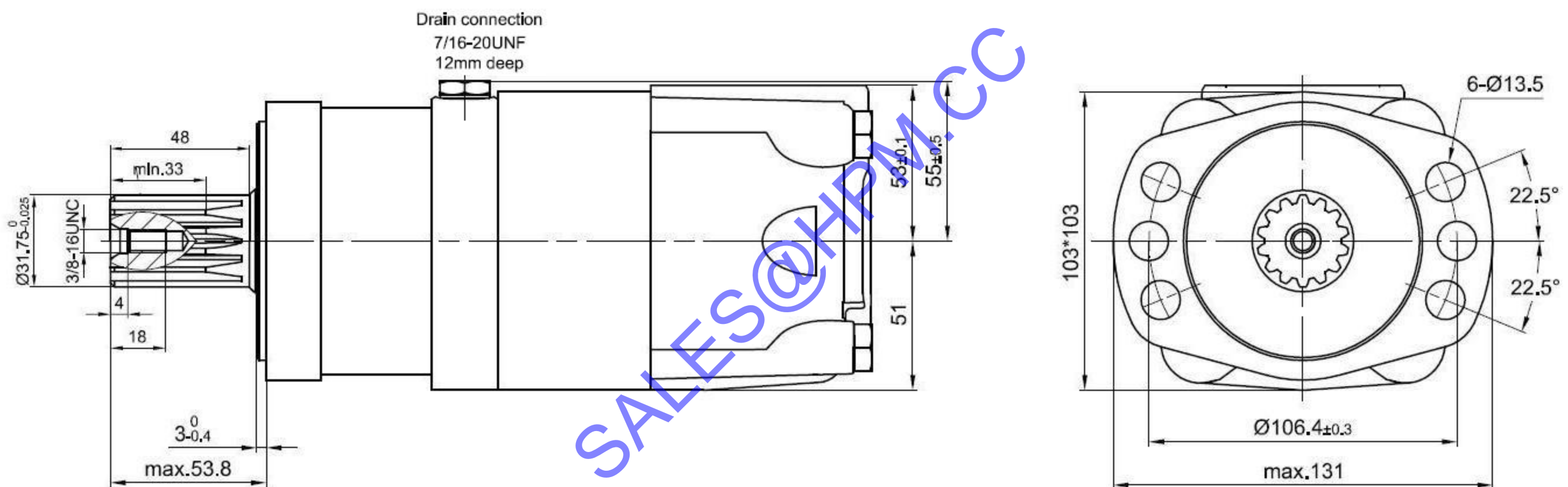
Popular model drawing

BMS(Y)-x-E2-T3-S



HPM Model	Danfoss Model	M+S Model	L mm	L1 mm	L2 mm
BMS(Y)-80-E2-T3-S	151F-2332	MLHS-A-80T**	170	16	126.5
BMS(Y)-100-E2-T3-S	151F-2333	MLHS-A-100T**	174	20	130.5
BMS(Y)-125-E2-T3-S	151F-2334	MLHS-A-125T**	179	25	135.5
BMS(Y)-160-E2-T3-S	151F-2335	MLHS-A-160T**	181	27	137.5
BMS(Y)-200-E2-T3-S	151F-2336	MLHS-A-200T**	188	34	144.5
BMS(Y)-250-E2-T3-S	151F-2337	MLHS-A-250T**	196	42	152.5
BMS(Y)-315-E2-T3-S	151F-2338	MLHS-A-315T**	208	54	164.5
BMS(Y)-375-E2-T3-S	151F-2339	MLHS-A-400T**	223	69	179.5
BMS(Y)-475-E2-T3-S	151F-2349	MLHS-A-475T**	237	83	193.5

BMS(Y)-x-F6-F-S



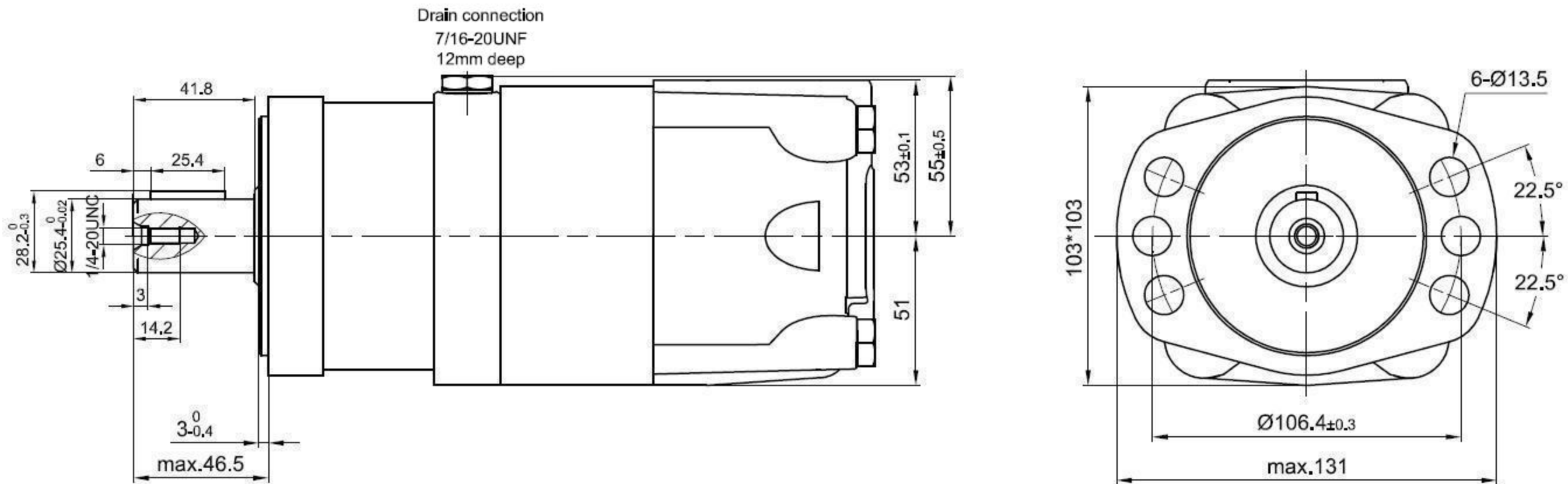
HPM Model	Danfoss Model	M+S Model	L mm	L1 mm	L2 mm
BMS(Y)-80-E2-T3-S	151F-2332	MLHS-A-80T**	170	16	126.5
BMS(Y)-100-E2-T3-S	151F-2333	MLHS-A-100T**	174	20	130.5
BMS(Y)-125-E2-T3-S	151F-2334	MLHS-A-125T**	179	25	135.5
BMS(Y)-160-E2-T3-S	151F-2335	MLHS-A-160T**	181	27	137.5
BMS(Y)-200-E2-T3-S	151F-2336	MLHS-A-200T**	188	34	144.5
BMS(Y)-250-E2-T3-S	151F-2337	MLHS-A-250T**	196	42	152.5
BMS(Y)-315-E2-T3-S	151F-2338	MLHS-A-315T**	208	54	164.5
BMS(Y)-375-E2-T3-S	151F-2339	MLHS-A-400T**	223	69	179.5
BMS(Y)-475-E2-T3-S	151F-2349	MLHS-A-475T**	237	83	193.5

BMS Series hydraulic orbit motor



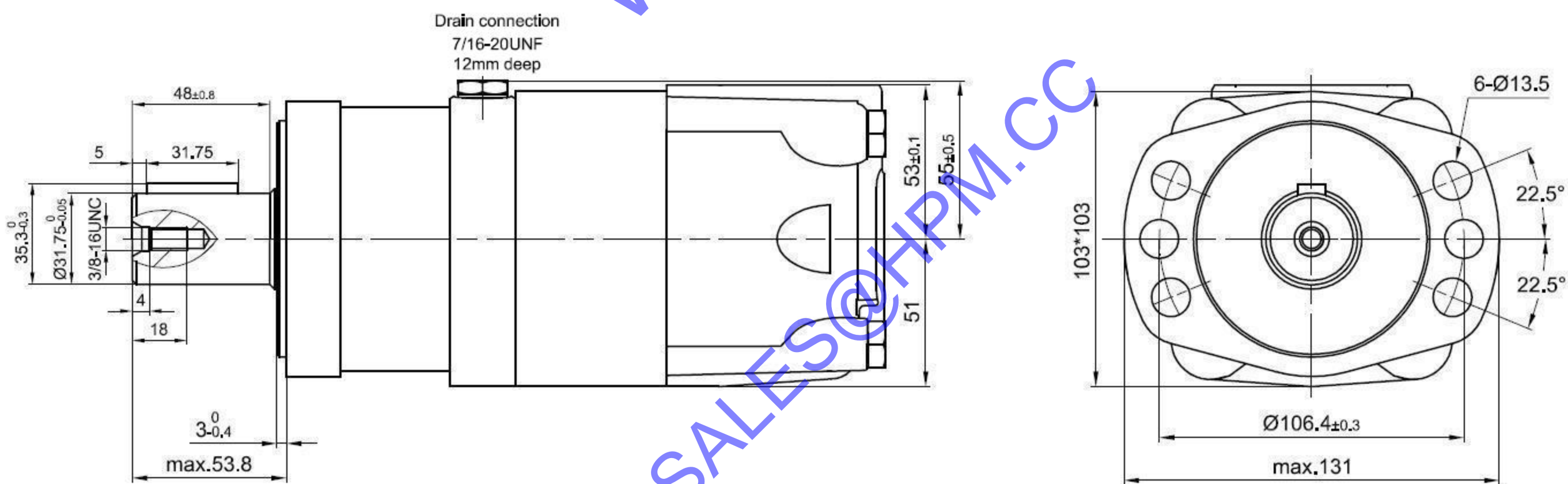
Popular model drawing

BMS(Y)-x-F6-D-S



HPM Model	Danfoss Model	M+S Model	L mm	L1 mm	L2 mm
BMS(Y)-80-F6-D-S	151F-2377	MLHS-F80D**	170	16	126.5
BMS(Y)-100-F6-D-S	151F-2378	MLHS-F100D**	174	20	130.5
BMS(Y)-125-F6-D-S	151F-2379	MLHS-F125D**	179	25	135.5
BMS(Y)-160-F6-D-S	151F-2380	MLHS-F160D**	181	27	137.5
BMS(Y)-200-F6-D-S	151F-2381	MLHS-F200D**	188	34	144.5
BMS(Y)-250-F6-D-S	151F-2382	MLHS-F250D**	196	42	152.5
BMS(Y)-315-F6-D-S	151F-2383	MLHS-F315D**	208	54	164.5
BMS(Y)-375-F6-D-S	151F-2384	MLHS-F400D**	223	69	179.5
BMS(Y)-475-F6-D-S	151F-2385				

BMS(Y)-x-F6-G-S



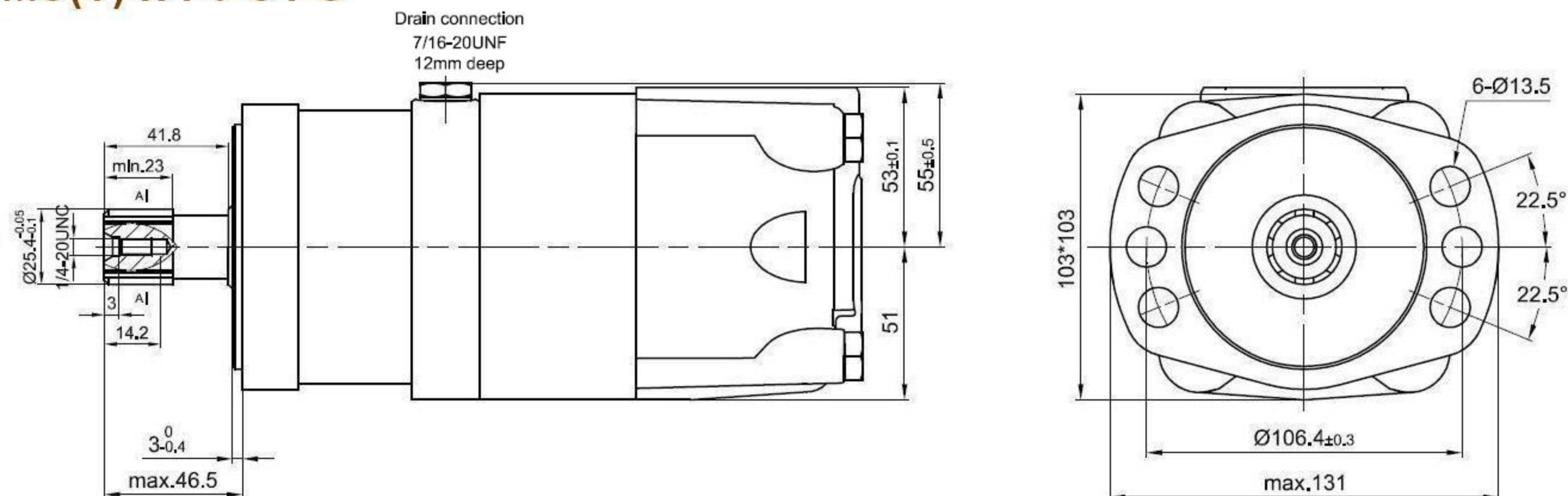
HPM Model	Danfoss Model	M+S Model	L mm	L1 mm	L2 mm
BMS(Y)-80-F6-G-S	151F-2368	MLHS-F80C**	170	16	126.5
BMS(Y)-100-F6-G-S	151F-2369	MLHS-F100C**	174	20	130.5
BMS(Y)-125-F6-G-S	151F-2370	MLHS-F125C**	179	25	135.5
BMS(Y)-160-F6-G-S	151F-2371	MLHS-F160C**	181	27	137.5
BMS(Y)-200-F6-G-S	151F-2372	MLHS-F200C**	188	34	144.5
BMS(Y)-250-F6-G-S	151F-2373	MLHS-F250C**	196	42	152.5
BMS(Y)-315-F6-G-S	151F-2374	MLHS-F315C**	208	54	164.5
BMS(Y)-375-F6-G-S	151F-2375	MLHS-F400C**	223	69	179.5
BMS(Y)-475-F6-G-S	151F-2376				

BMS Series hydraulic orbit motor



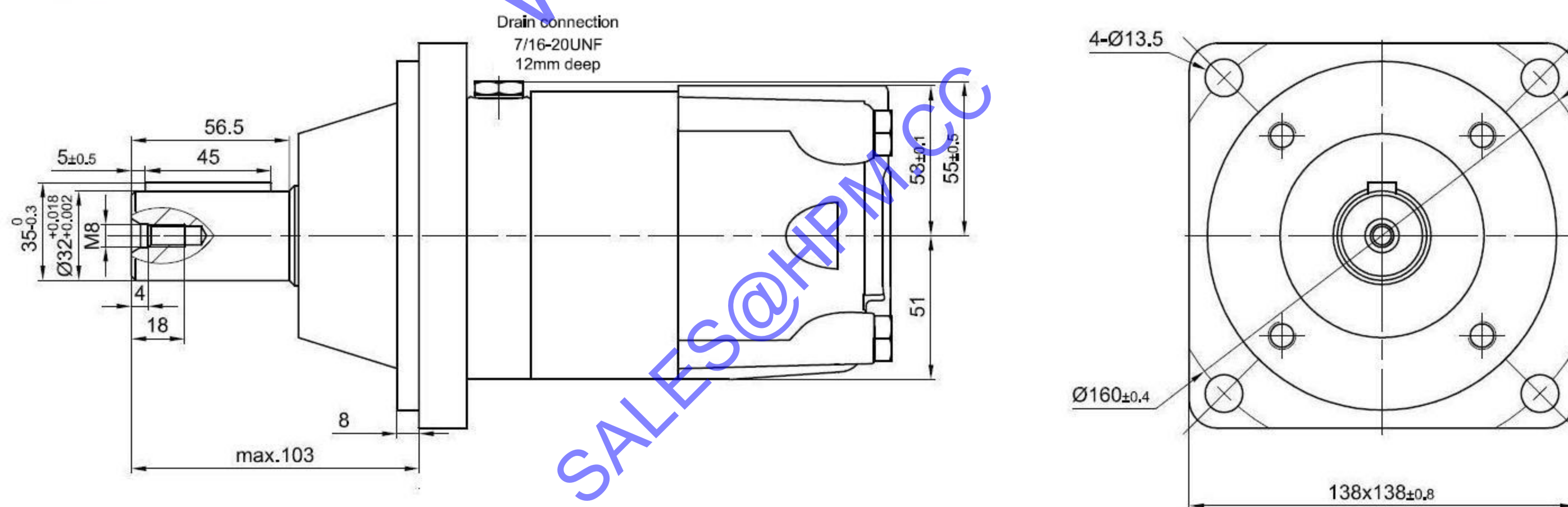
Popular model drawing

BMS(Y)-x-F6-S1-S



HPM Model	Danfoss Model	M+S Model	L mm	L1 mm	L2 mm	
BMS(Y)-80-F6-S1-S	151F-2359	With Drain Port MLHS-F80S**	170	16	126.5	
BMS(Y)-100-F6-S1-S	151F-2360		MLHS-F100S**	174	20	130.5
BMS(Y)-125-F6-S1-S	151F-2361		MLHS-F125S**	179	25	135.5
BMS(Y)-160-F6-S1-S	151F-2362		MLHS-F160S**	181	27	137.5
BMS(Y)-200-F6-S1-S	151F-2363		MLHS-F200S**	188	34	144.5
BMS(Y)-250-F6-S1-S	151F-2364		MLHS-F250S**	196	42	152.5
BMS(Y)-315-F6-S1-S	151F-2365		MLHS-F315S**	208	54	164.5
BMS(Y)-375-F6-S1-S	151F-2366		MLHS-F400S**	223	69	179.5
BMS(Y)-475-F6-S1-S	151F-2367					

BMS(Y)-x-W-B-D



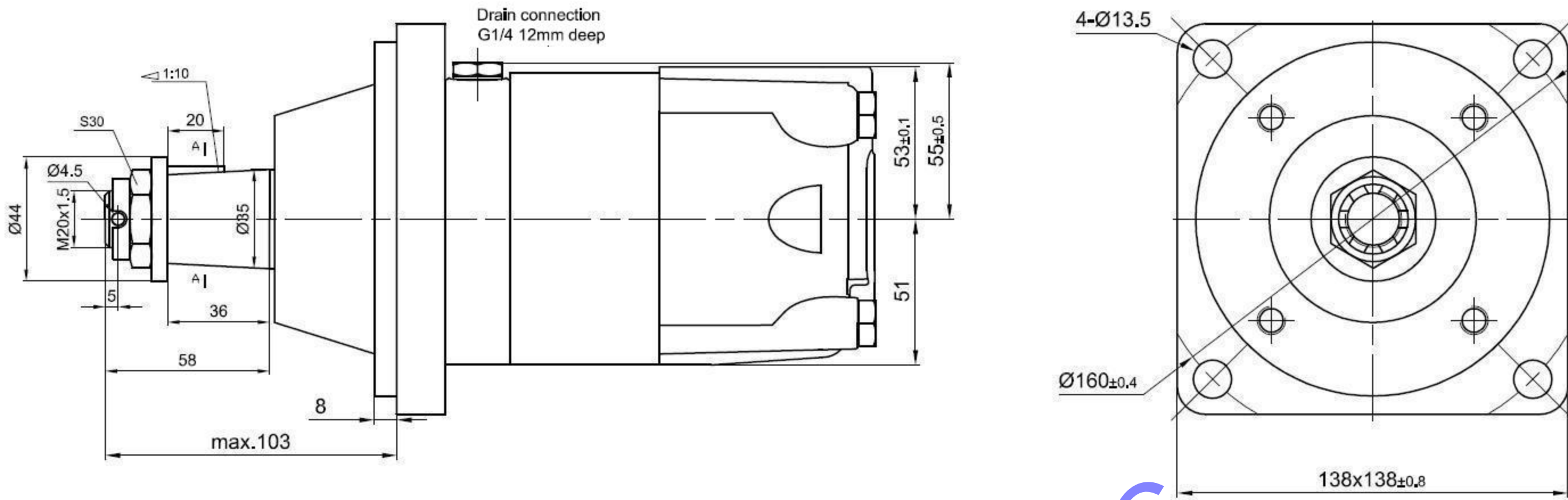
HPM Model	Danfoss Model	M+S Model	L mm	L1 mm	L2 mm	
BMS(Y)-80-W-B-D	151F-0521	With Drain Port EPMS-W80C**	132.5	16	89	
BMS(Y)-100-W-B-D	151F-0522		EPMS-W100C**	136.5	20	93
BMS(Y)-125-W-B-D	151F-0523		EPMS-W125C**	141.5	25	98
BMS(Y)-160-W-B-D	151F-0524		EPMS-W160C**	143.5	27	100
BMS(Y)-200-W-B-D	151F-0525		EPMS-W200C**	150.5	34	107
BMS(Y)-250-W-B-D	151F-0526		EPMS-W250C**	158.5	42	115
BMS(Y)-315-W-B-D	151F-0527		EPMS-W315C**	170.5	54	127
BMS(Y)-375-W-B-D	151F-0610		EPMS-W400C**	185.5	69	142

BMS Series hydraulic orbit motor



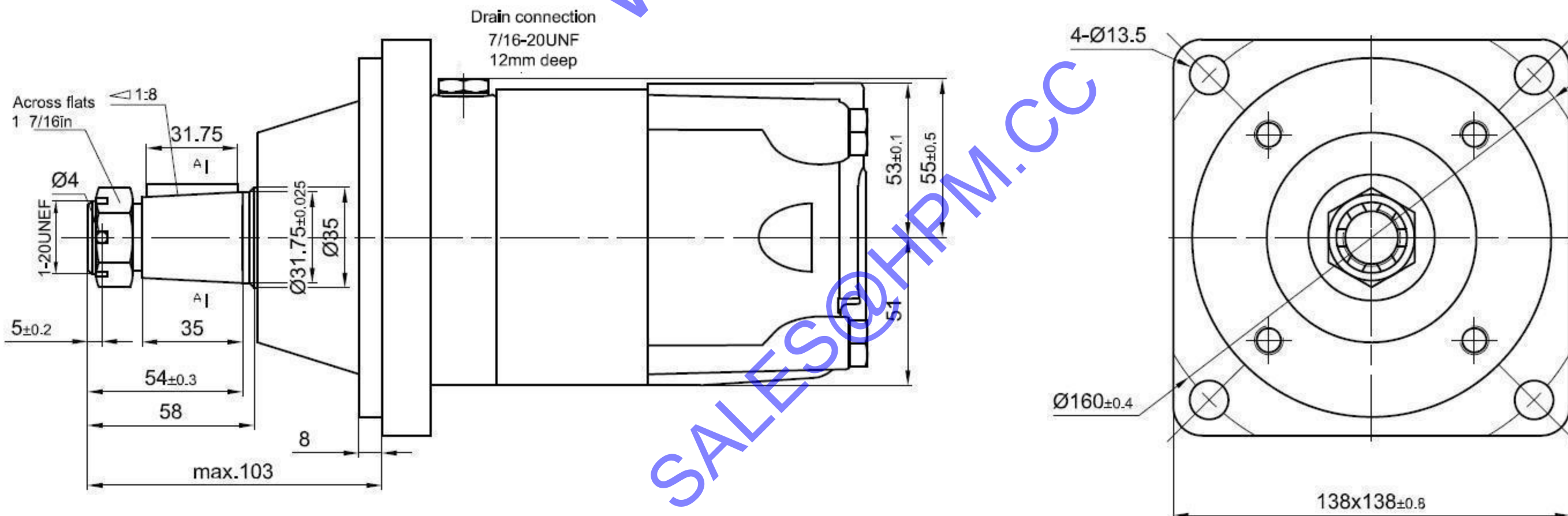
Popular model drawing

BMS(Y)-x-W-T1-D



HPM Model	Danfoss Model	M+S Model	L mm	L1 mm	L2 mm	
BMS(Y)-80-W-T1-D	151F-0528	With Drain Port EPMS-W80K**	132.5	16	89	
BMS(Y)-100-W-T1-D	151F-0529		EPMS-W100K**	136.5	20	93
BMS(Y)-125-W-T1-D	151F-0530		EPMS-W125K**	141.5	25	98
BMS(Y)-160-W-T1-D	151F-0531		EPMS-W160K**	143.5	27	100
BMS(Y)-200-W-T1-D	151F-0532		EPMS-W200K**	150.5	34	107
BMS(Y)-250-W-T1-D	151F-0533		EPMS-W250K**	158.5	42	115
BMS(Y)-315-W-T1-D	151F-0534		EPMS-W315K**	170.5	54	127
BMS(Y)-375-W-T1-D	151F-0609		EPMS-W400K**	185.5	69	142

BMS(Y)-x-W-T3-S



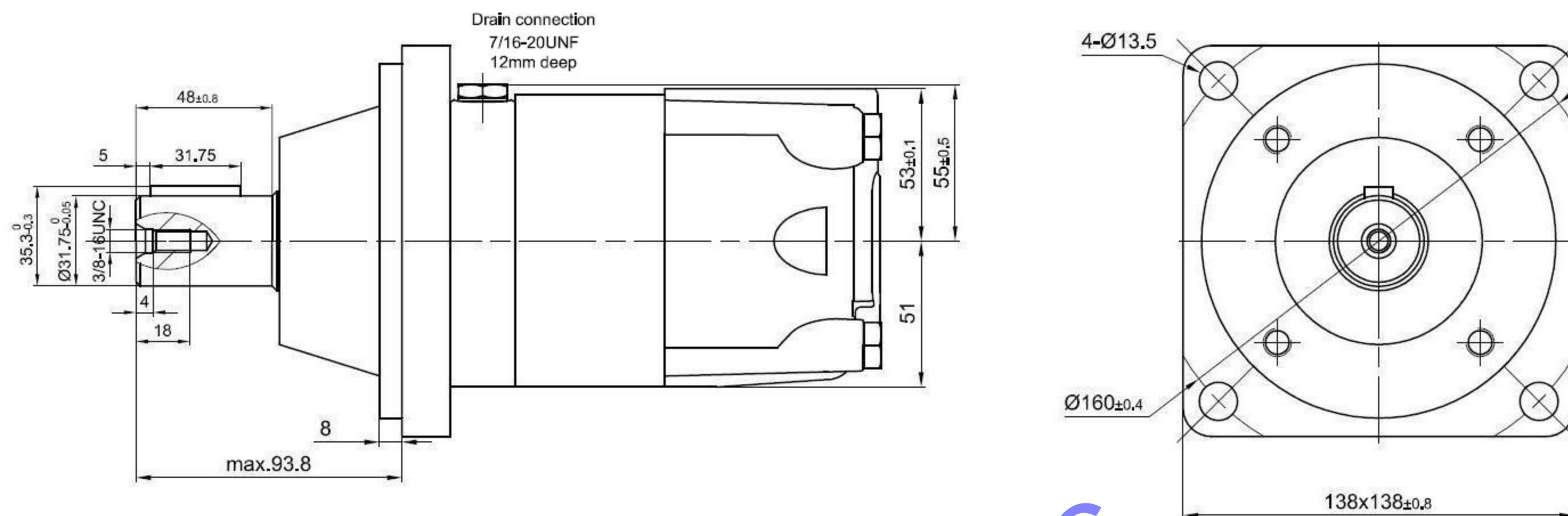
HPM Model	Danfoss Model	M+S Model	L mm	L1 mm	L2 mm	
BMS(Y)-80-W-T3-S	151F-2242	With Drain Port MLHS-W80T4**	132.5	16	89	
BMS(Y)-100-W-T3-S	151F-2243		MLHS-W100T4**	136.5	20	93
BMS(Y)-125-W-T3-S	151F-2244		MLHS-W125T4**	141.5	25	98
BMS(Y)-160-W-T3-S	151F-2245		MLHS-W160T4**	143.5	27	100
BMS(Y)-200-W-T3-S	151F-2246		MLHS-W200T4**	150.5	34	107
BMS(Y)-250-W-T3-S	151F-2247		MLHS-W250T4**	158.5	42	115
BMS(Y)-315-W-T3-S	151F-2248		MLHS-W315T4**	170.5	54	127
BMS(Y)-375-W-T3-S	151F-2263		MLHS-W400T4**	185.5	69	142
BMS(Y)-475-W-T3-S	151F-2267		MLHS-W475T4**	199.5	83	156

BMS Series hydraulic orbit motor



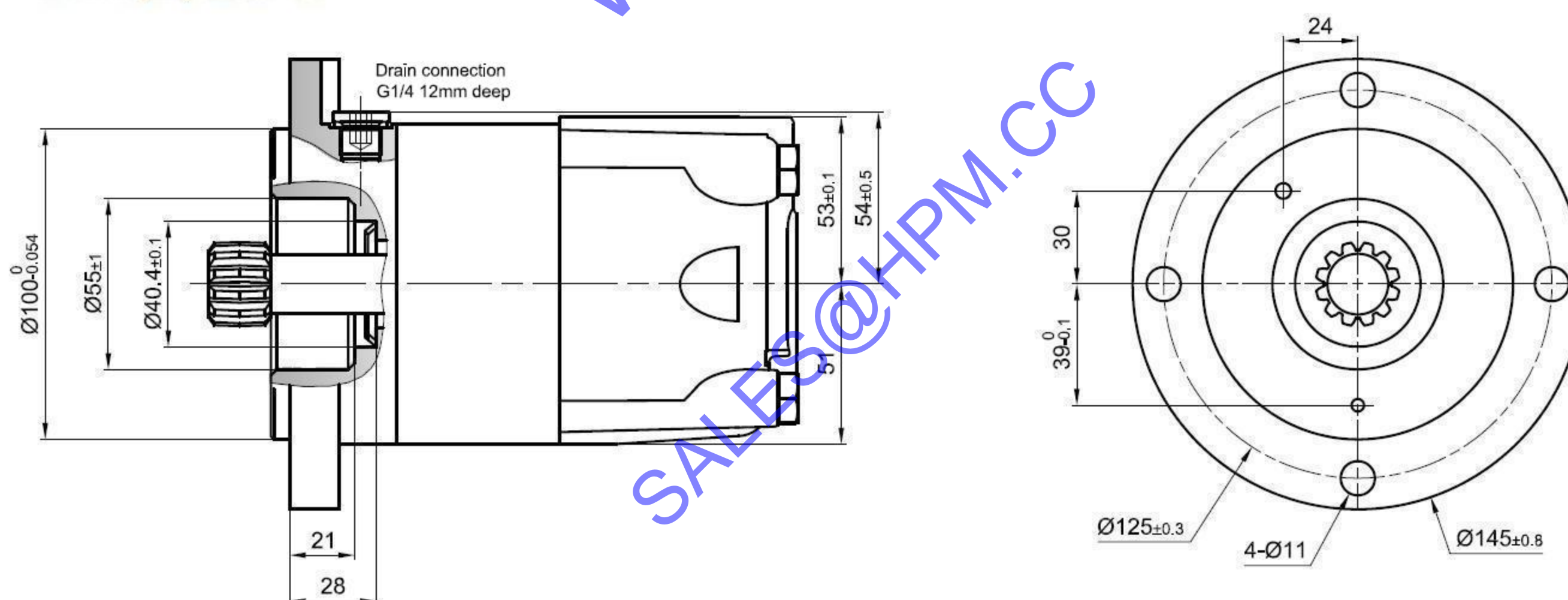
Popular model drawing

BMS(Y)-x-W-G-S



HPM Model	Danfoss Model	M+S Model	L mm	L1 mm	L2 mm	
BMS(Y)-80-W-G-S	151F-2235	With Drain Port MLHS-W80C4**	132.5	16	89	
BMS(Y)-100-W-G-S	151F-2236		MLHS-W100C4**	136.5	20	93
BMS(Y)-125-W-G-S	151F-2237		MLHS-W125C4**	141.5	25	98
BMS(Y)-160-W-G-S	151F-2238		MLHS-W160C4**	143.5	27	100
BMS(Y)-200-W-G-S	151F-2239		MLHS-W200C4**	150.5	34	107
BMS(Y)-250-W-G-S	151F-2240		MLHS-W250C4**	158.5	42	115
BMS(Y)-315-W-G-S	151F-2241		MLHS-W315C4**	170.5	54	127
BMS(Y)-375-W-G-S	151F-2265		MLHS-W400C4**	185.5	69	142
BMS(Y)-475-W-G-S	151F-2266		MLHS-W475C4**	199.5	83	156

BMS(Y)-x-D-D



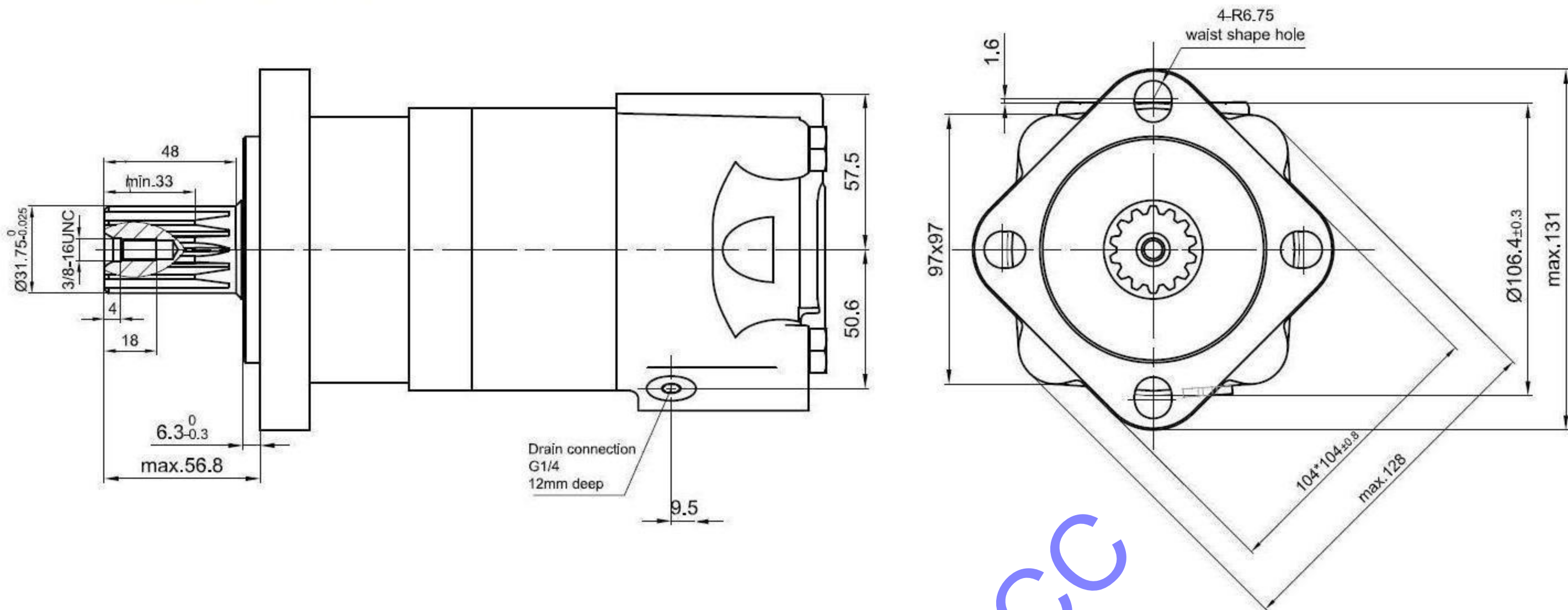
HPM Model	Danfoss Model	M+S Model	L mm	L1 mm	L2 mm	
BMSS-80-D-D	151F-0535	With Drain Port EPMS-S80**	129	16	85	
BMSS-100-D-D	151F-0536		EPMS-S100**	133	20	89
BMSS-125-D-D	151F-0537		EPMS-S125**	138	25	94
BMSS-160-D-D	151F-0538		EPMS-S160**	140	27	96
BMSS-200-D-D	151F-0539		EPMS-S200**	147	34	103
BMSS-250-D-D	151F-0540		EPMS-S250**	155	42	111
BMSS-315-D-D	151F-0541		EPMS-S315**	167	54	123
BMSS-375-D-D	151F-0608		EPMS-S400**	182	69	138
BMSS-475-D-D				196	83	152

BMS Series hydraulic orbit motor



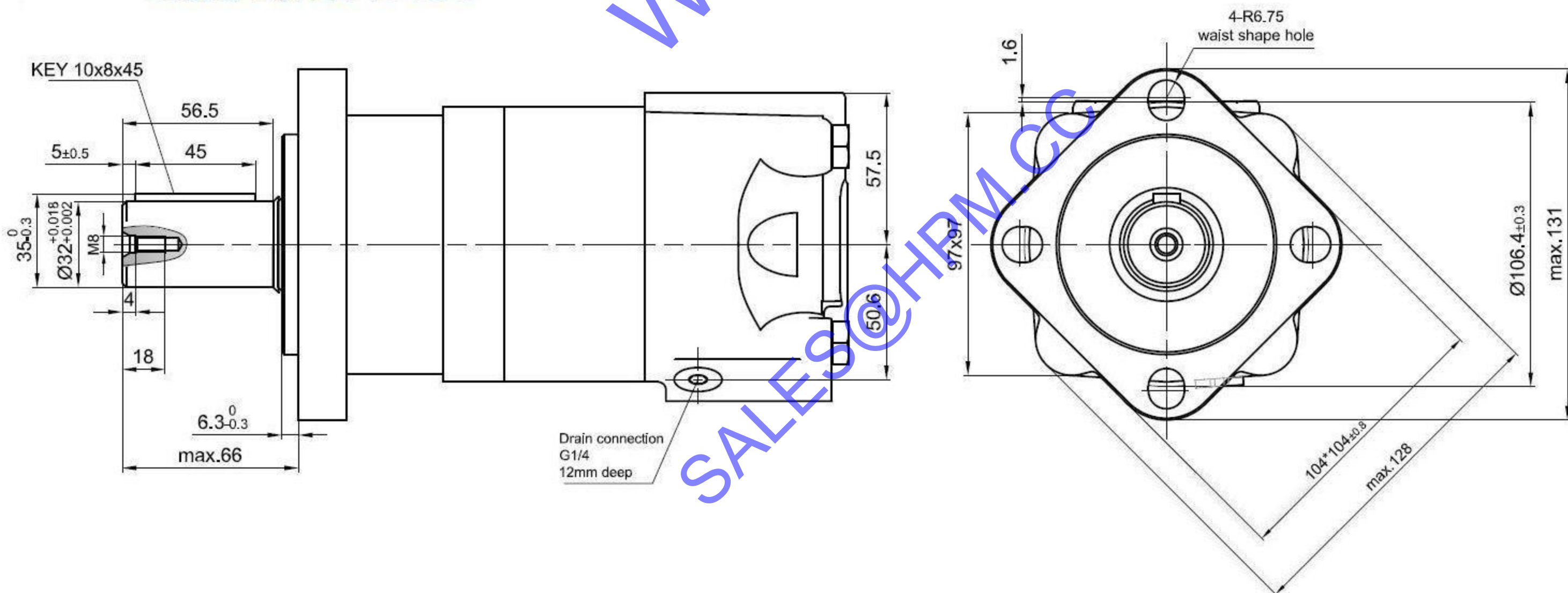
Popular model drawing

BMSE-x-E4-F-DB



HPM Model	Eaton Model		L mm	L1 mm	L2 mm
BMSE-80-E4-F-DB	104-1376 (M02049AH04AG)	With Drain Port	171	13	123.2
BMSE-100-E4-F-DB	104-1377 (M02062AH04AG)		175	17	127.2
BMSE-125-E4-F-DB	104-1378 (M02080AH04AG)		180	22	132.2
BMSE-160-E4-F-DB	104-1379 (M02096AH04AG)		185.5	27.5	137.7
BMSE-200-E4-F-DB	104-1380 (M02119AH04AG)		193	35.1	145.2
BMSE-250-E4-F-DB	104-1381 (M02149AH04AG)		205	47	157.2
BMSE-315-E4-F-DB	104-1382 (M02187AH04AG)		217	59	169.2
BMSE-375-E4-F-DB	104-1383 (M02240AH04AG)		229	71	181.2

BMSE-x-E4-B-DB



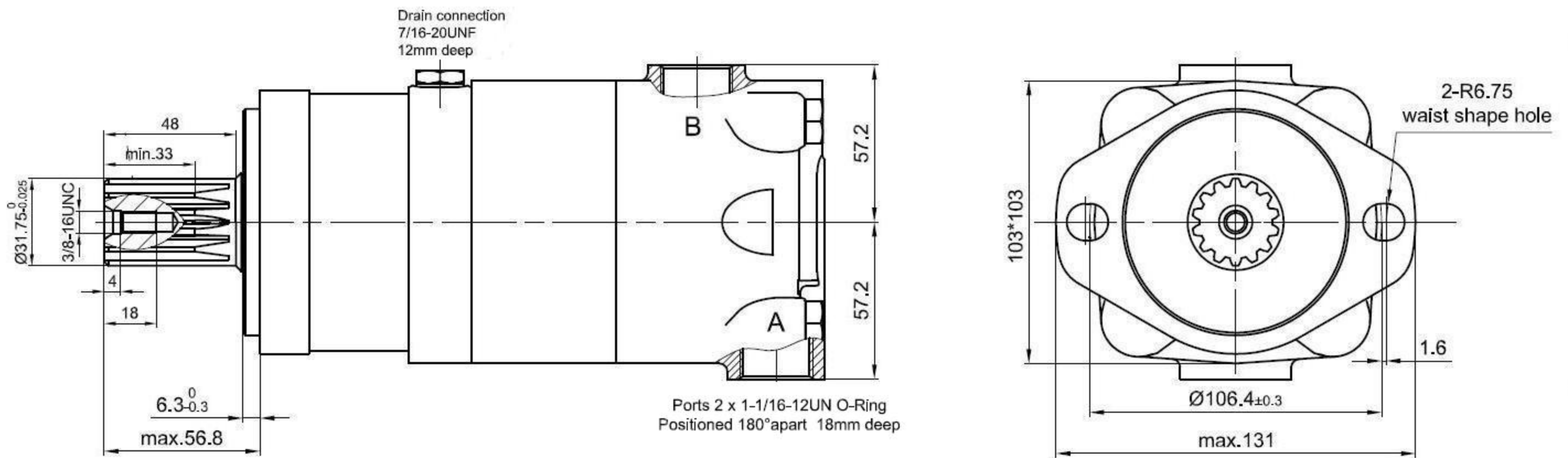
HPM Model	Eaton Model		L mm	L1 mm	L2 mm
BMSE-80-E4-B-DB	104-1384 (M02049AH16AG)	With Drain Port	171	13	123.2
BMSE-100-E4-B-DB	104-1385 (M02062AH16AG)		175	17	127.2
BMSE-125-E4-B-DB	104-1386 (M02080AH16AG)		180	22	132.2
BMSE-160-E4-B-DB	104-1387 (M02096AH16AG)		185.5	27.5	137.7
BMSE-200-E4-B-DB	104-1388 (M02119AH16AG)		193	35.1	145.2
BMSE-250-E4-B-DB	104-1389 (M02149AH16AG)		205	47	157.2
BMSE-315-E4-B-DB	104-1390 (M02187AH16AG)		217	59	169.2
BMSE-375-E4-B-DB	104-1391 (M02240AH16AG)		229	71	181.2

BMS Series hydraulic orbit motor



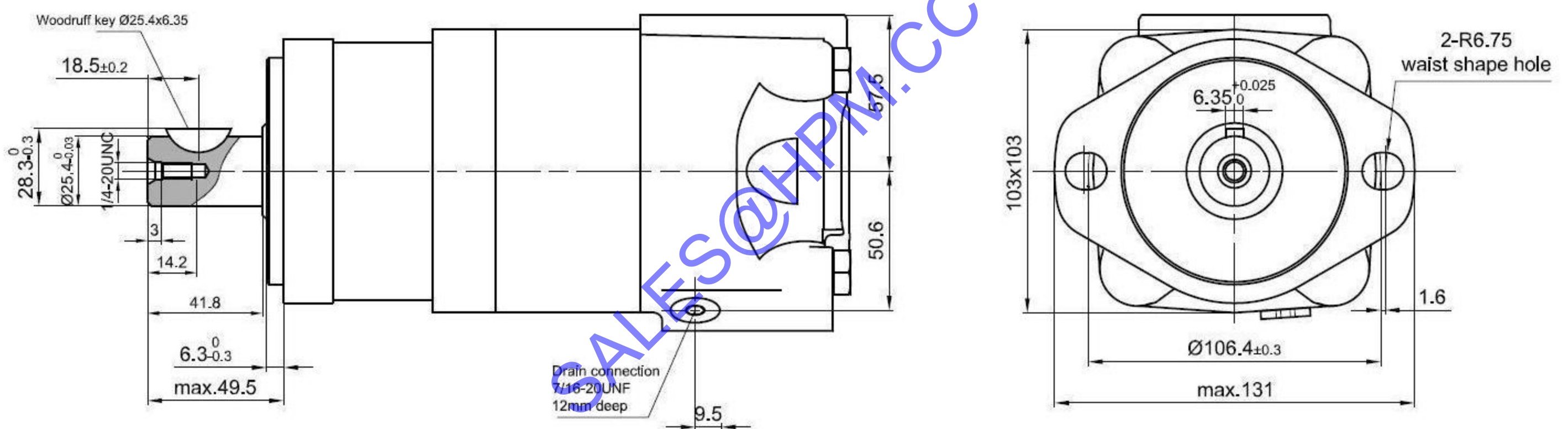
Popular model drawing

BMSE-x-E2-F-ED



HPM Model	Eaton Model		L mm	L1 mm	L2 mm
BMSE-80-E2-F-ED	104-1087 (M02049AC04AF)	With Drain Port	171	13	123.2
BMSE-100-E2-F-ED	104-1088 (M02062AC04AF)		175	17	127.2
BMSE-125-E2-F-ED	104-1089 (M02080AC04AF)		180	22	132.2
BMSE-160-E2-F-ED	104-1090 (M02096AC04AF)		185.5	27.5	137.7
BMSE-200-E2-F-ED	104-1091 (M02119AC04AF)		193	35.1	145.2
BMSE-250-E2-F-ED	104-1092 (M02149AC04AF)		205	47	157.2
BMSE-315-E2-F-ED	104-1093 (M02187AC04AF)		217	59	169.2
BMSE-375-E2-F-ED	104-1094 (M02240AC04AF)		229	71	181.2

BMSE-x-E2-K-SU



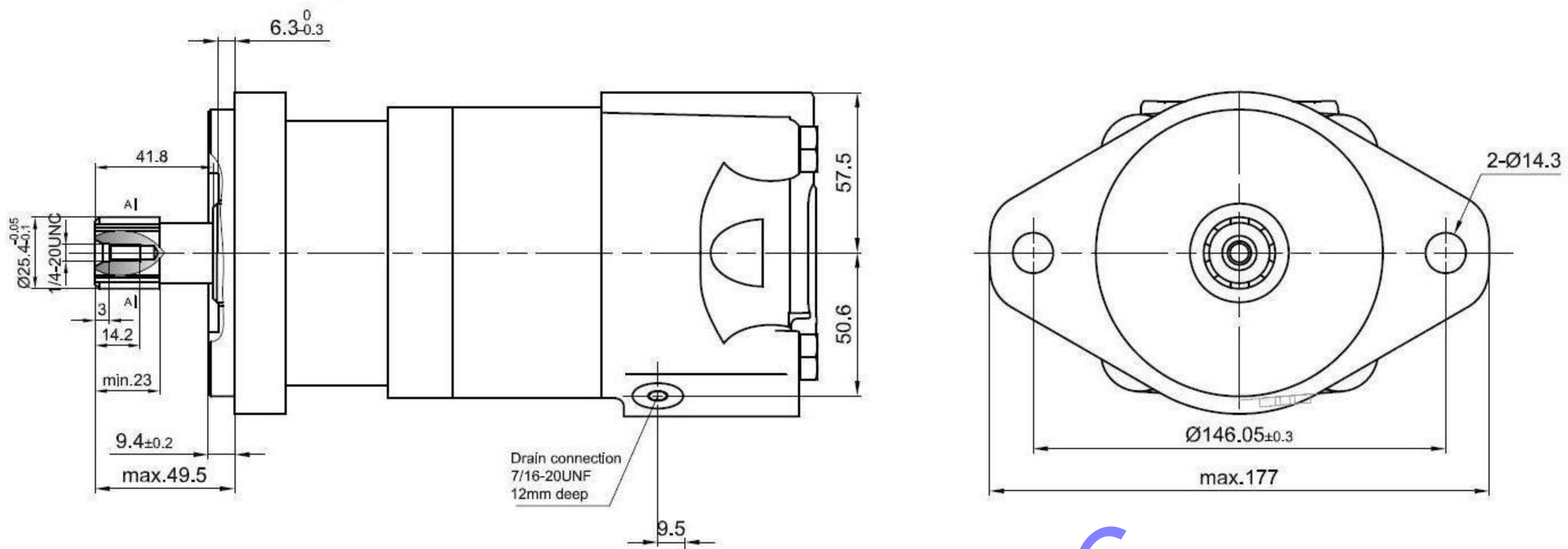
HPM Model	Eaton Model		L mm	L1 mm	L2 mm
BMSE-80-E2-K-SU	104-1001 (M02049AC01AA)	With Drain Port	171	13	123.2
BMSE-100-E2-K-SU	104-1002 (M02062AC01AA)		175	17	127.2
BMSE-125-E2-K-SU	104-1003 (M02080AC01AA)		180	22	132.2
BMSE-160-E2-K-SU	104-1004 (M02096AC01AA)		185.5	27.5	137.7
BMSE-200-E2-K-SU	104-1005 (M02119AC01AA)		193	35.1	145.2
BMSE-250-E2-K-SU	104-1006 (M02149AC01AA)		205	47	157.2
BMSE-315-E2-K-SU	104-1007 (M02187AC01AA)		217	59	169.2
BMSE-375-E2-K-SU	104-1143 (M02240AC01AA)		229	71	181.2

BMS Series hydraulic orbit motor



Popular model drawing

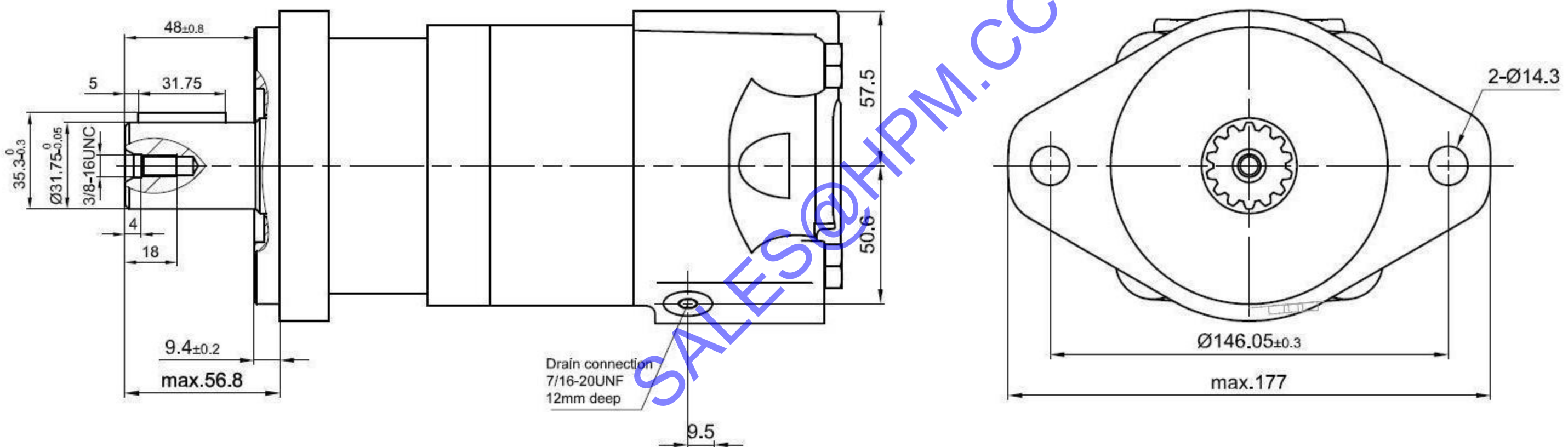
BMSE-x-E2B-S1-SU



HPM Model	Eaton Model	L mm	L1 mm	L2 mm
BMSE-80-E2B-S1-SU	104-1193 (M02049AF05AA)	173	13	125.7
BMSE-100-E2B-S1-SU	104-1194 (M02062AF05AA)	177	17	129.7
BMSE-125-E2B-S1-SU	104-1195 (M02080AF05AA)	182	22	134.7
BMSE-160-E2B-S1-SU	104-1195 (M02096AF05AA)	187.5	27.5	140.2
BMSE-200-E2B-S1-SU	104-1197 (M02119AF05AA)	195	35.1	147.5
BMSE-250-E2B-S1-SU	104-1198 (M02149AF05AA)	207	47	159.5
BMSE-315-E2B-S1-SU	104-1199 (M02187AF05AA)	219	59	171.7
BMSE-375-E2B-S1-SU		231	71	183.7

With Drain Port

BMSE-x-E2B-G-SU



HPM Model	Eaton Model	L mm	L1 mm	L2 mm
BMSE-80-E2B-G-SU	104-1200 (M02049AF02AA)	171	13	123.2
BMSE-100-E2B-G-SU	104-1201 (M02062AF02AA)	175	17	127.2
BMSE-125-E2B-G-SU	104-1202 (M02080AF02AA)	180	22	132.2
BMSE-160-E2B-G-SU	104-1203 (M02096AF02AA)	185.5	27.5	137.7
BMSE-200-E2B-G-SU	104-1204 (M02119AF02AA)	193	35.1	145.2
BMSE-250-E2B-G-SU	104-1205 (M02149AF02AA)	205	47	157.2
BMSE-315-E2B-G-SU	104-1206 (M02187AF02AA)	217	59	169.2
BMSE-375-E2B-G-SU	104-1207 (M02240AF02AA)	229	71	181.2

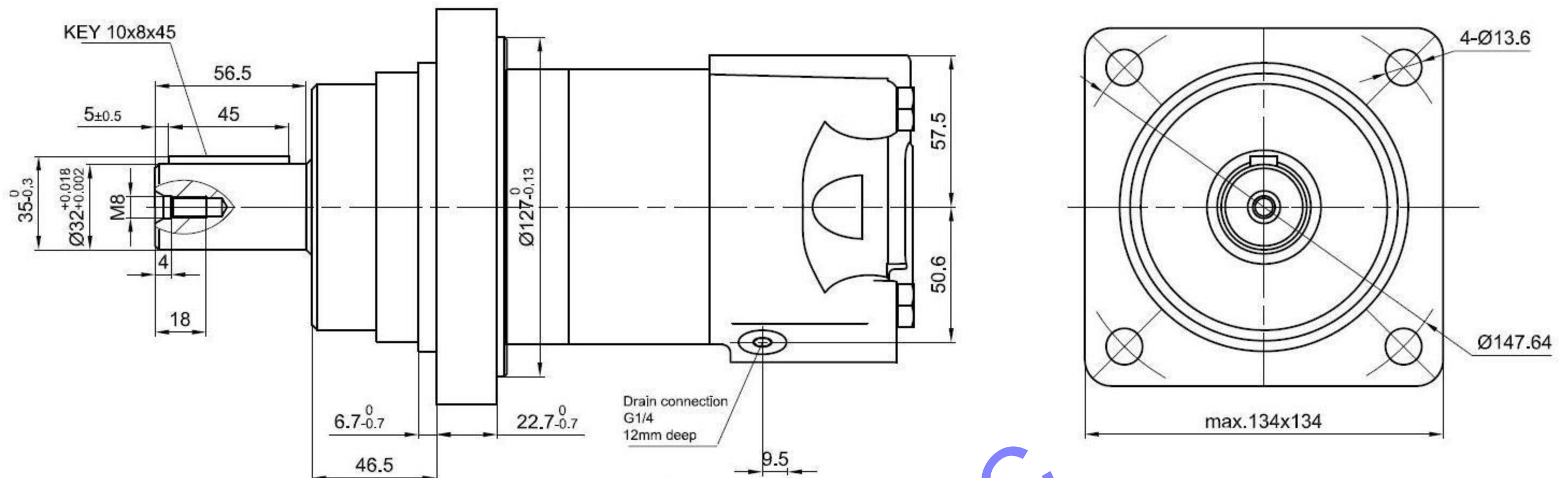
With Drain Port

BMS Series hydraulic orbit motor



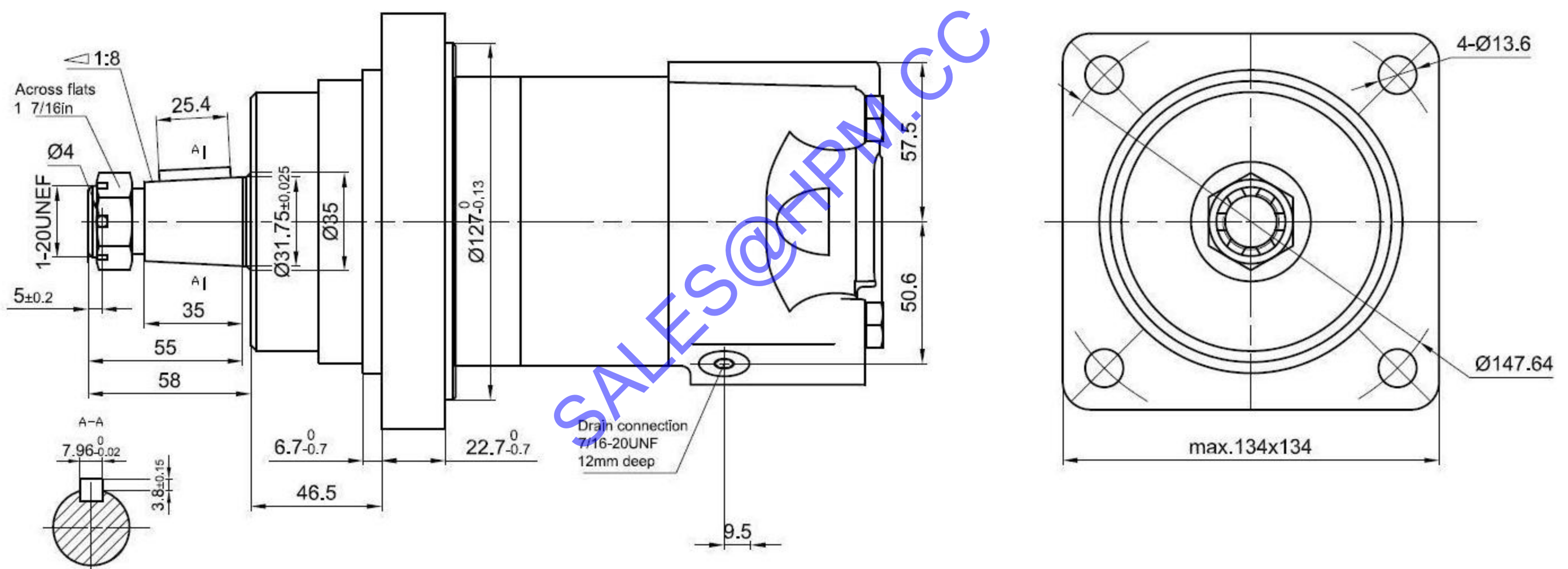
Popular model drawing

BMSE-x-WE-B-DB



HPM Model	Eaton Model	L mm	L1 mm	L2 mm
BMSE-80-WE-B-DB	105-1134 (M02049AB16AG)	145	13	97.5
BMSE-100-WE-B-DB	105-1135 (M02062AB16AG)	149	17	101.5
BMSE-125-WE-B-DB	105-1136 (M02080AB16AG)	154	22	106.5
BMSE-160-WE-B-DB	105-1137 (M02096AB16AG)	159.5	27.5	112
BMSE-200-WE-B-DB	105-1138 (M02119AB16AG)	167	35.1	119.5
BMSE-250-WE-B-DB	105-1139 (M02149AB16AG)	179	47	131.5
BMSE-315-WE-B-DB	105-1140 (M02187AB16AG)	191	59	143.5
BMSE-375-WE-B-DB	105-1141 (M02240AB16AG)	203	71	155.5
BMSE-475-WE-B-DB		223	90	178

BMSE-x-WE-T4-SU



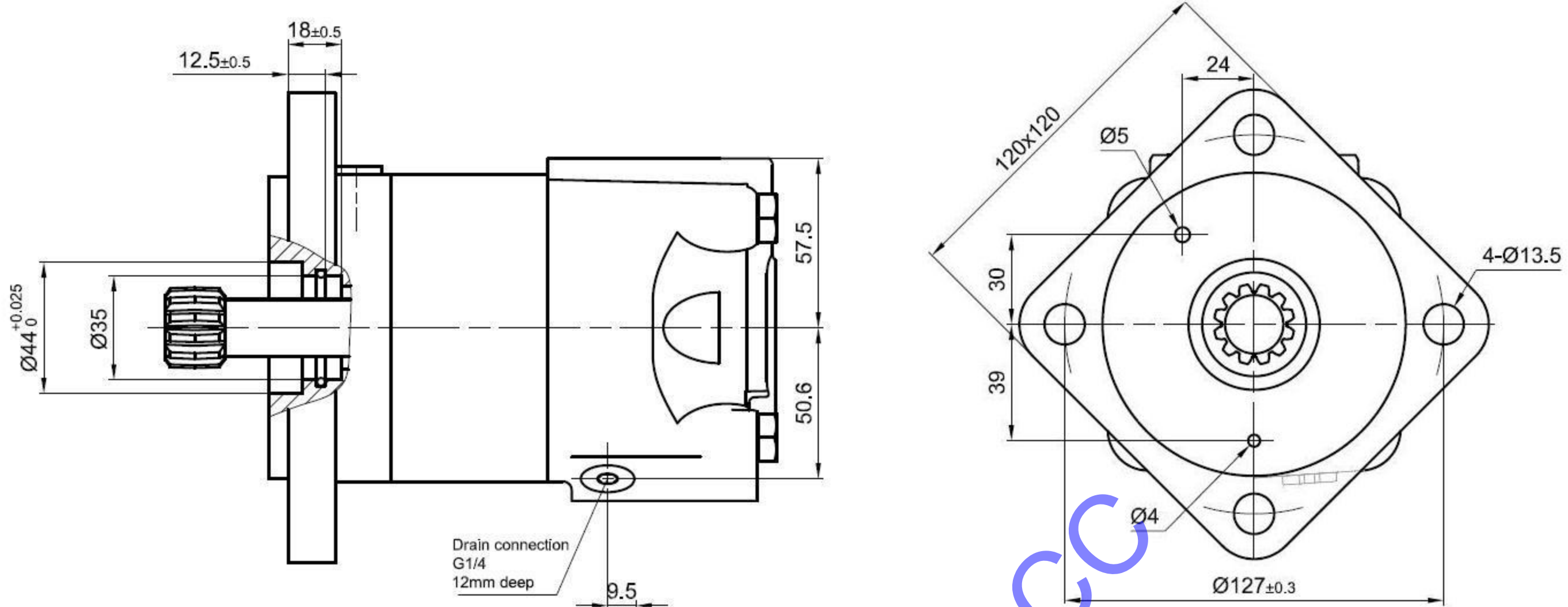
HPM Model	Eaton Model	L mm	L1 mm	L2 mm
BMSE-80-WE-T4-SU	105-1001 (M02049AB03AA)	145	13	97.5
BMSE-100-WE-T4-SU	105-1002 (M02062AB03AA)	149	17	101.5
BMSE-125-WE-T4-SU	105-1003 (M02080AB03AA)	154	22	106.5
BMSE-160-WE-T4-SU	105-1004 (M02096AB03AA)	159.5	27.5	112
BMSE-200-WE-T4-SU	105-1005 (M02119AB03AA)	167	35.1	119.5
BMSE-250-WE-T4-SU	105-1006 (M02149AB03AA)	179	47	131.5
BMSE-315-WE-T4-SU	105-1007 (M02187AB03AA)	191	59	143.5
BMSE-375-WE-T4-SU	105-1060 (M02240AB03AA)	203	71	155.5
BMSE-475-WE-T4-SU	105-1152 (M02298AB03AA)	223	90	178

BMS Series hydraulic orbit motor



Popular model drawing

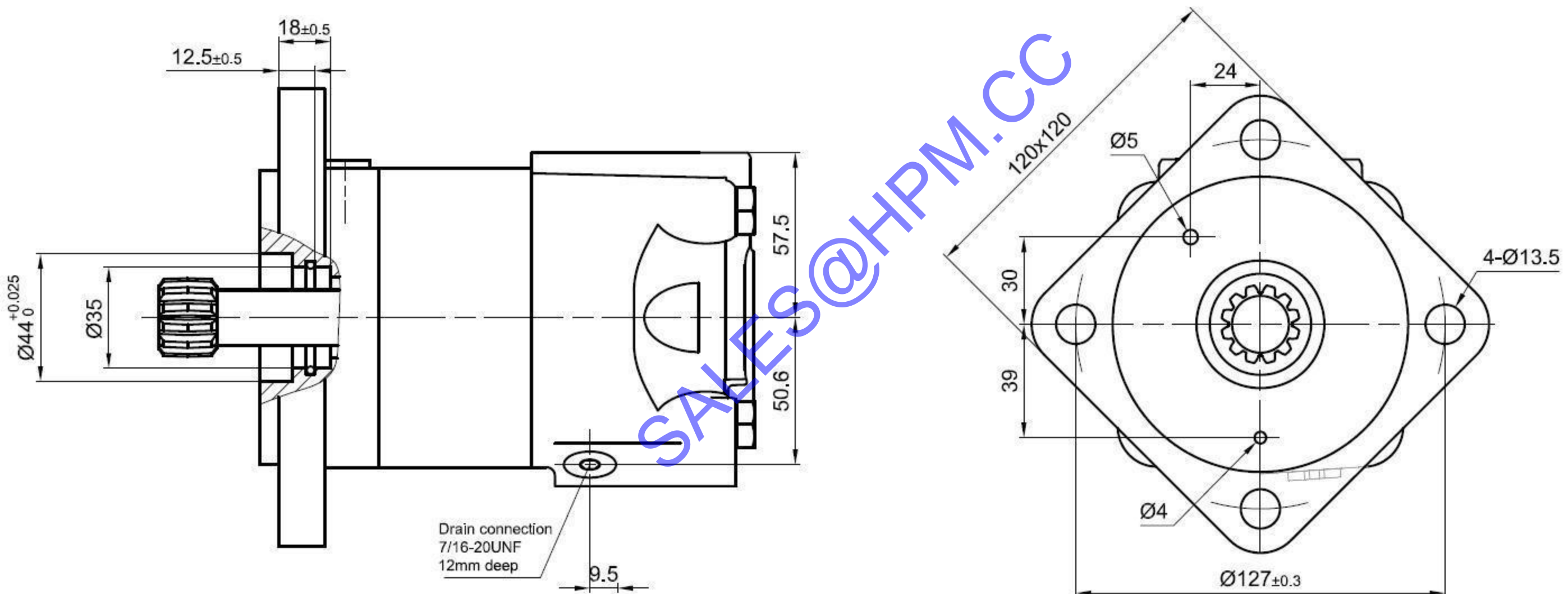
BMSJ-x-J-DB



HPM Model	Eaton Model	L mm	L1 mm	L2 mm
BMSJ-80-J-DB	106-1038 (M02049AD00AG)	134	13	86
BMSJ-100-J-DB	106-1039 (M02062AD00AG)	138	17	90
BMSJ-125-J-DB	106-1040 (M02080AD00AG)	143	22	95
BMSJ-160-J-DB	106-1041 (M02096AD00AG)	148.5	27.5	100.5
BMSJ-200-J-DB	106-1042 (M02119AD00AG)	156	35.1	108
BMSJ-250-J-DB	106-1043 (M02149AD00AG)	168	47	120
BMSJ-315-J-DB	106-1044 (M02187AD00AG)	180	59	132
BMSJ-375-J-DB	106-1045 (M02240AD00AG)	192	71	144

With Drain Port

BMSJ-x-J-SU



HPM Model	Eaton Model	L mm	L1 mm	L2 mm
BMSJ-80-J-SU	106-1008 (M02049AD00AA)	134	13	86
BMSJ-100-J-SU	106-1009 (M02062AD00AA)	138	17	90
BMSJ-125-J-SU	106-1010 (M02080AD00AA)	143	22	95
BMSJ-160-J-SU	106-1011 (M02096AD00AA)	148.5	27.5	100.5
BMSJ-200-J-SU	106-1012 (M02119AD00AA)	156	35.1	108
BMSJ-250-J-SU	106-1013 (M02149AD00AA)	168	47	120
BMSJ-315-J-SU	106-1014 (M02187AD00AA)	180	59	132
BMSJ-375-J-SU	106-1015 (M02240AD00AA)	192	71	144
BMSJ-475-J-SU	106-1047 (M02298AD00AA)	212	90	166

With Drain Port

BMT Series hydraulic orbit motor



BMT-Replace with Danfoss OMT Series,M+S EPMT/ MLHT Series

BMTE-Replace with Eaton 4000 Series M04 Type

BMTS/BMTJ-No Output Shaft Type

Parameters

Type		BMT BMTE- 160	BMT BMTE- 200	BMT BMTE- 250	BMT BMTE- 315	BMT BMTE- 400	BMT BMTE- 500	BMT BMTE- 630	BMT BMTE- 800
Displacement		161.1	201.4	251.8	326.3	410.9	523.6	629.1	801.8
Max. speed (rpm)	cont.	625	625	536	380	305	240	196	154
	int.	780	750	643	460	365	285	233	185
Max. torque (N•m)	cont.	470	590	670	950	1080	1220	1318	1464
	int.	560	710	821	1140	1260	1370	1498	1520
	peak	669	838	958	1346.3	1450.3	1643.8	1618.8	1665
Max. output (KW)	cont.	27.7	34.9	34.7	34.9	31.2	28.8	25.3	22.2
	int.	32	40	40	40	35	35	27.5	26.8
Max.pressure drop (Mpa)	cont.	20	20	20	20	18	16	14	12.5
	int.	24	24	24	24	21	18	16	13
	peak	28	28	28	28	24	21	19	16
Max. flow (L/min)	rated	80	100	100	100	100	100	100	100
	cont.	100	125	125	125	125	125	125	125
	int.	125	150	150	150	150	150	150	150
Max.inlet pressure (Mpa)	cont.	21	21	21	21	21	21	21	21
	int.	25	25	25	25	25	25	25	25
	peak	30	30	30	30	30	30	30	30
Weight(kg)		19.5	20	20.4	21	22	23	24	25

Selection

1	2	3	4
Series	Displacement	Flange	Output shaft
BMT	160	Code 4: 4-Ø14 Square-flange , Ø160 , pilot Ø 125×9 Code K6: 4-Ø14.5 Square-flange , Ø162 , pilot Ø 127×9 Code W : 4-Ø18 Wheel-flange , Ø200 , pilot Ø 160×7	Code M: Shaft Dia Ø40 ,Parallel key 12×8×70 Code G: Shaft Dia Ø38.1,Parallel key 9.52×9.52×57.15 Code F: Shaft Dia Ø38.1 ,Splined tooth 17-DP12/24 (US version) Code FD: Shaft Dia Ø38.1 ,Splined tooth 17-DP12/24 (Europe version) Code T: Shaft Dia Ø 45 Cone shaft 1:10 ,Parallel key 12×8×28 Code T1: Shaft Dia Ø 45 Cone shaft 1:8,Parallel key 11.13×11.13×31.75 Code SL: Shaft Dia Ø34.85,Splined key 6-34.85×28.14×8.64 Code G1: Shaft Dia Ø31.75,Parallel key 7.95×7.95×40
	200		
	250		
	315		
	400		
	500		
	630		
800			
BMTS	160-800	Code D: 4-Ø14 Circle-flange , Ø160 , pilot Ø125*8 Code E: 4-Ø14.5 Square-flange , Ø 162, pilot Ø127*10	Omit : Short shaft 16-DP12/24

Selection

5	6	7	8
Port and drain port	Rotation direction	Paint	Unusually function
Code D: G3/4 Manifold mount 4*M10,G1/4 Code M: M27*2 Manifold mount 4*M10,M14*1.5 Code S: 1-1/16-12UN O-ring,9/16-18UNF Code S1: 1-1/16-12UN O-ring,7/16-20UNF Code G: G3/4,G1/4	Omit: Standard Code R: Opposite	Omit: Blue Code 00: No paint Code B: Black Code S: Silver Grey	Omit: Standard Code F: Free running Code LS: Low speed

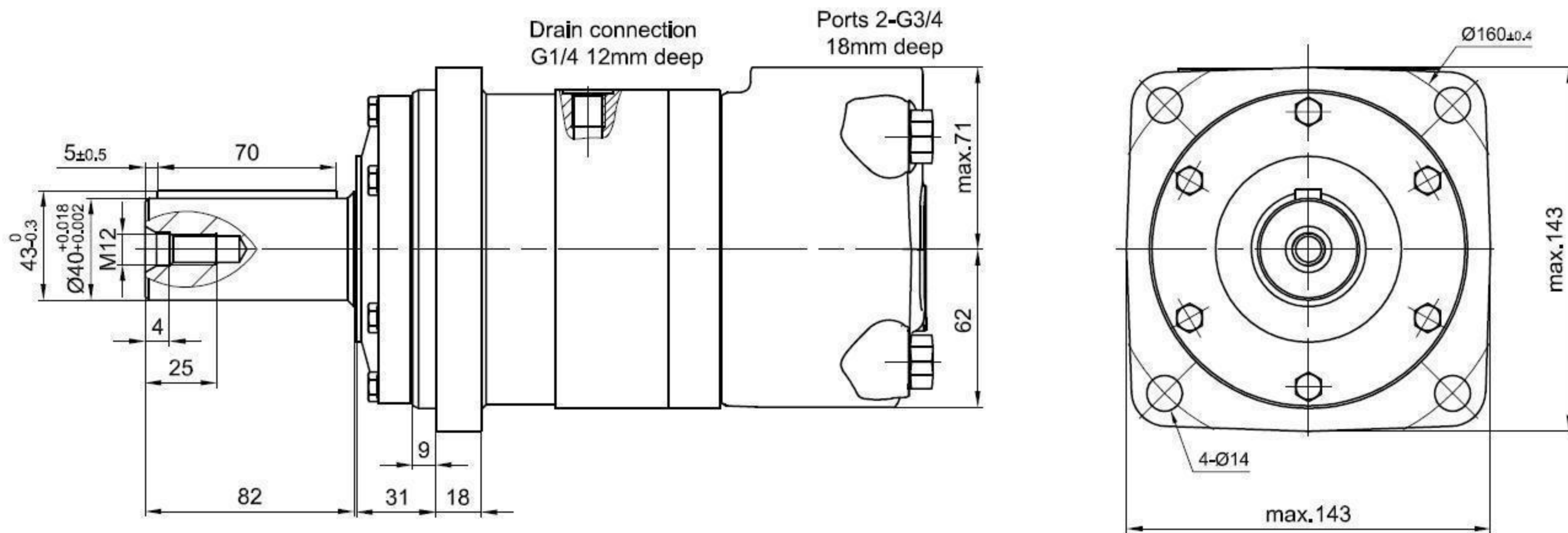
Selection

1	2	3	4
Series	Displacement	Flange	Output shaft
BMTE	160	Code CC: 4-Ø14.3 Square-flange Ø161.9 , pilot Ø127×12 Code E2B: 4-Ø14.3 Square-flange Ø127 , pilot Ø101.6×12 Code WE: 4-1/2-13UNC Wheel-flange Ø147.6 , pilot Ø127×9	Code G1: Shaft Dia Ø31.75,Parallel key 7.96×7.96×40 Code G2: Shaft Dia Ø38.1,Parallel key 9.52×9.52×42 Code FE: Shaft Dia Ø38.1 ,Splined tooth 17-DP12/24 (US version) Code Y1: Shaft Dia Ø40 ,Parallel key 12×8×63 Code T2: Shaft Dia Ø 41.25 Cone shaft 1:8,Parallel key 11.13×11.13×31.75
	200		
	250		
	315		
	400		
	500		
	630		
	800		
BMTJ	160-800	Code J: 4-Ø14.5 Square-flange , Ø161.9 , pilot Ø127×12.4	Omit : Short shaft 12-DP8.5/17
5	6	7	8
Port and drain port	Rotation direction	Paint	Unusually function
Code SF: 3/4 inch , Manifold mount 8-3/8-16UNC, 7/16-20UNF Code SF5: 1-5/16-12UN O-ring,7/16-20UNF Code SF6: M33×2,M14×1.5 Code SF7: G1,G1/4 Code SE: 1-1/16-12UN O-ring,9/16-18UNF Code SE1: 1-1/16-12UN O-ring,7/16-20UNF Code SE2: G3/4,G1/4	Omit: Standard Code R: Opposite	Omit: Blue Code 00: No paint Code B: Black Code S: Silver Grey	Omit: Standard Code F: Free running Code LS: Low speed

BMT Series hydraulic orbit motor

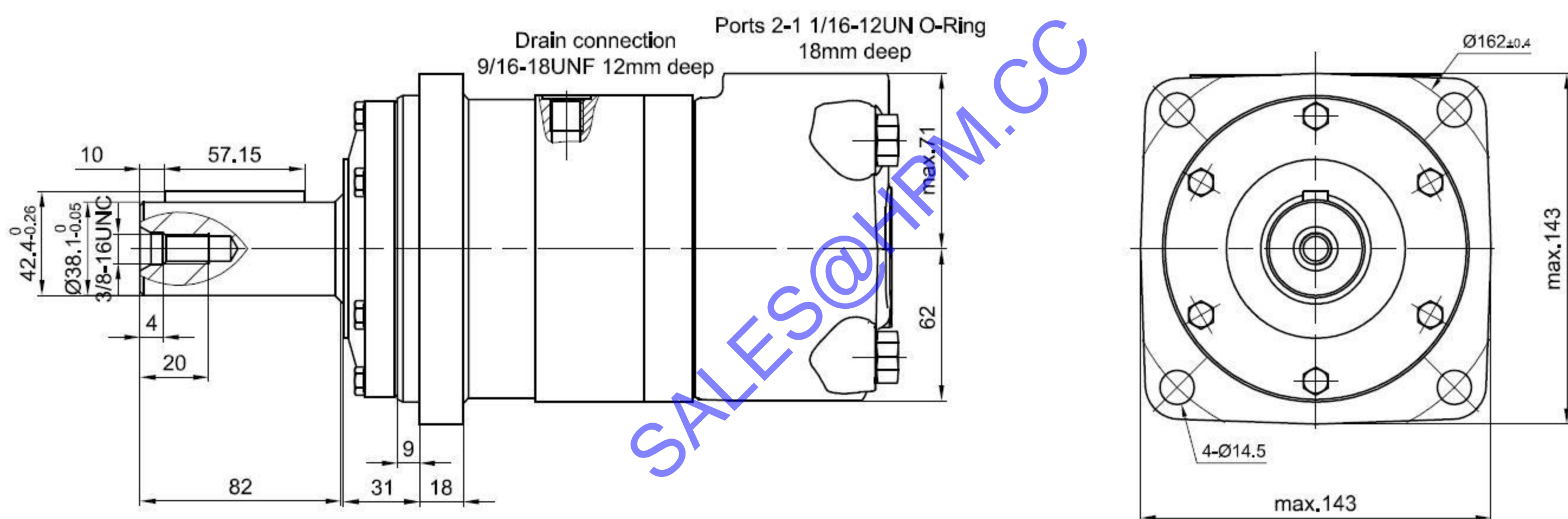
Popular model drawing

BMT-x-4-M-D



HPM Model	Danfoss Model	M+S Model	L mm	L1 mm	L2 mm	
BMT-160-4-M-D**	151B-3000	With Drain Port	EPMT-160-C**	193	14	142.5
BMT-200-4-M-D**	151B-3001		EPMT-200-C**	197	17	146.5
BMT-250-4-M-D**	151B-3002		EPMT-250-C**	204	20	152.5
BMT-315-4-M-D**	151B-3003		EPMT-315-C**	210	22	158.5
BMT-400-4-M-D**	151B-3004		EPMT-400-C**	217	27	165.5
BMT-500-4-M-D**	151B-3005		EPMT-500-C**	225	35	173.5
BMT-630-4-M-D**				237	47	185.5
BMT-800-4-M-D**				248	58	196.5

BMT-x-K6-G-S



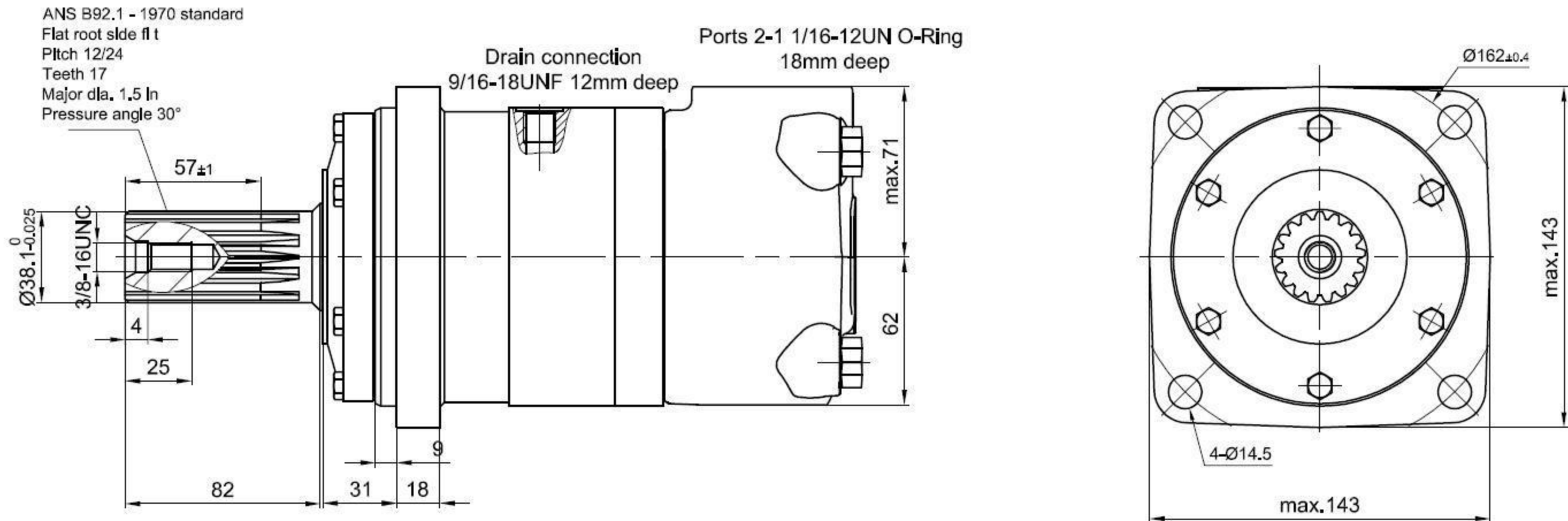
HPM Model	Danfoss Model	M+S Model	L mm	L1 mm	L2 mm	
BMT-160-K6-G-S	151B-2050	With Drain Port	MLHT-160C4**	193	14	142.5
BMT-200-K6-G-S	151B-2051		MLHT-200C4**	197	17	146.5
BMT-250-K6-G-S	151B-2052		MLHT-250C4**	204	20	152.5
BMT-315-K6-G-S	151B-2053		MLHT-315C4**	210	22	158.5
BMT-400-K6-G-S	151B-2054		MLHT-400C4**	217	27	165.5
BMT-500-K6-G-S	151B-2055		MLHT-500C4**	225	35	173.5
BMT-630-K6-G-S			MLHT-630C4**	237	47	185.5
BMT-800-K6-G-S				248	58	196.5

BMT Series hydraulic orbit motor



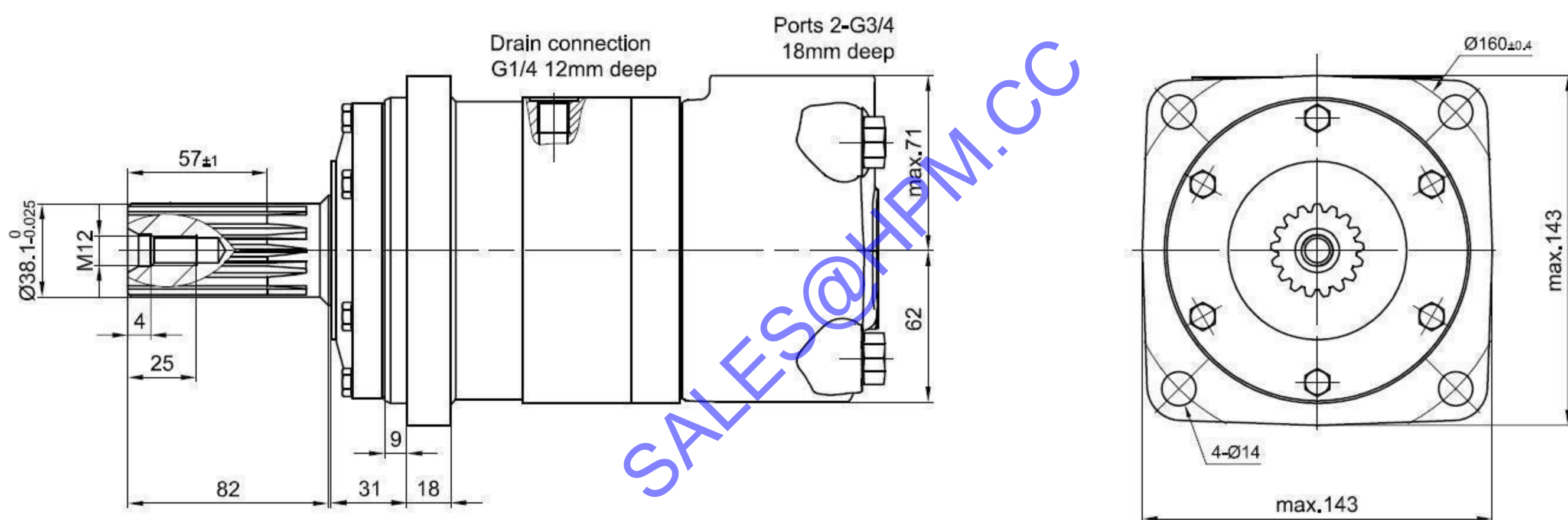
Popular model drawing

BMT-x-K6-F-S



HPM Model	Danfoss Model	M+S Model	L mm	L1 mm	L2 mm	
BMT-160-K6-F-S	151B-2056	With Drain Port MLHT-160G4**	193	14	142.5	
BMT-200-K6-F-S	151B-2057		MLHT-200G4**	197	17	146.5
BMT-250-K6-F-S	151B-2058		MLHT-250G4**	204	20	152.5
BMT-315-K6-F-S	151B-2059		MLHT-315G4**	210	22	158.5
BMT-400-K6-F-S	151B-2060		MLHT-400G4**	217	27	165.5
BMT-500-K6-F-S	151B-2061		MLHT-500G4**	225	35	173.5
BMT-630-K6-F-S			MLHT-630G4**	237	47	185.5
BMT-800-K6-F-S				248	58	196.5

BMT-x-4-FD-D



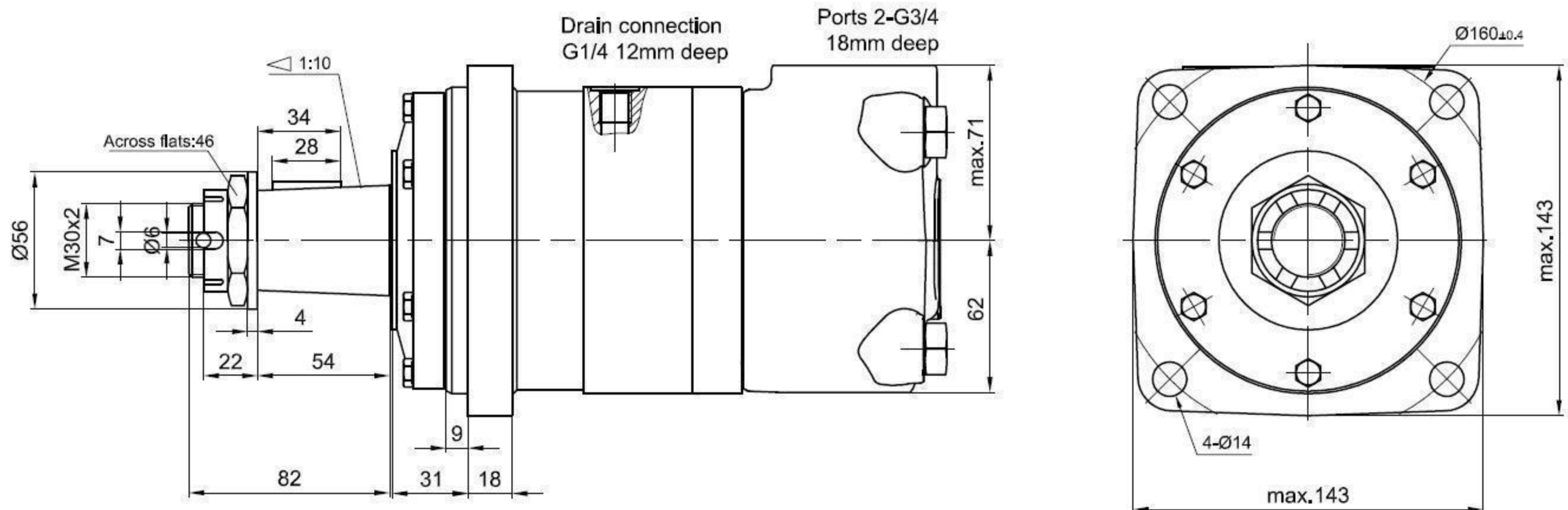
HPM Model	Danfoss Model	M+S Model	L mm	L1 mm	L2 mm	
BMT-160-4-FD-D	151B-3006	With Drain Port EPMT-160-SH**	193	14	142.5	
BMT-200-4-FD-D	151B-3007		EPMT-200-SH**	197	17	146.5
BMT-250-4-FD-D	151B-3008		EPMT-250-SH**	204	20	152.5
BMT-315-4-FD-D	151B-3009		EPMT-315-SH**	210	22	158.5
BMT-400-4-FD-D	151B-3010		EPMT-400-SH**	217	27	165.5
BMT-500-4-FD-D	151B-3011		EPMT-500-SH**	225	35	173.5
BMT-630-4-FD-D				237	47	185.5
BMT-800-4-FD-D				248	58	196.5

BMT Series hydraulic orbit motor



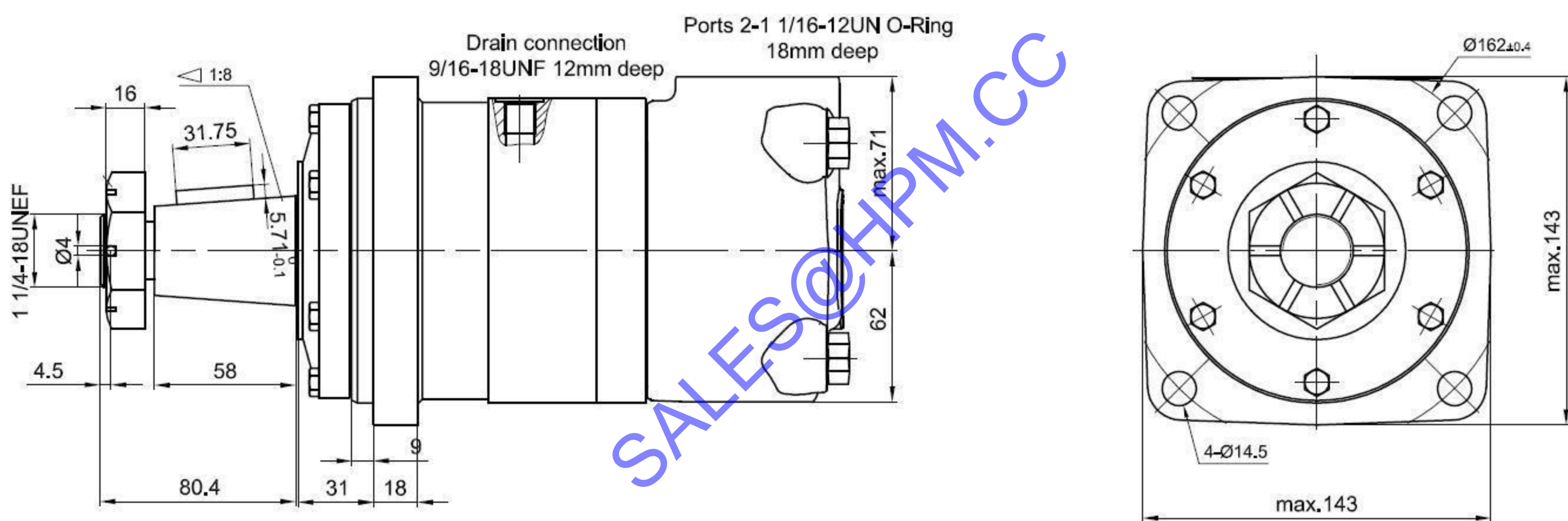
Popular model drawing

BMT-x-4-T-D



HPM Model	Danfoss Model	M+S Model	L mm	L1 mm	L2 mm
BMT-160-4-T-D	151B-3012	EPMT-160-K**	193	14	142.5
BMT-200-4-T-D	151B-3013	EPMT-200-K**	197	17	146.5
BMT-250-4-T-D	151B-3014	EPMT-250-K**	204	20	152.5
BMT-315-4-T-D	151B-3015	EPMT-315-K**	210	22	158.5
BMT-400-4-T-D	151B-3016	EPMT-400-K**	217	27	165.5
BMT-500-4-T-D	151B-3017	EPMT-500-K**	225	35	173.5
BMT-630-4-T-D			237	47	185.5
BMT-800-4-T-D			248	58	196.5

BMT-x-K6-T1-S

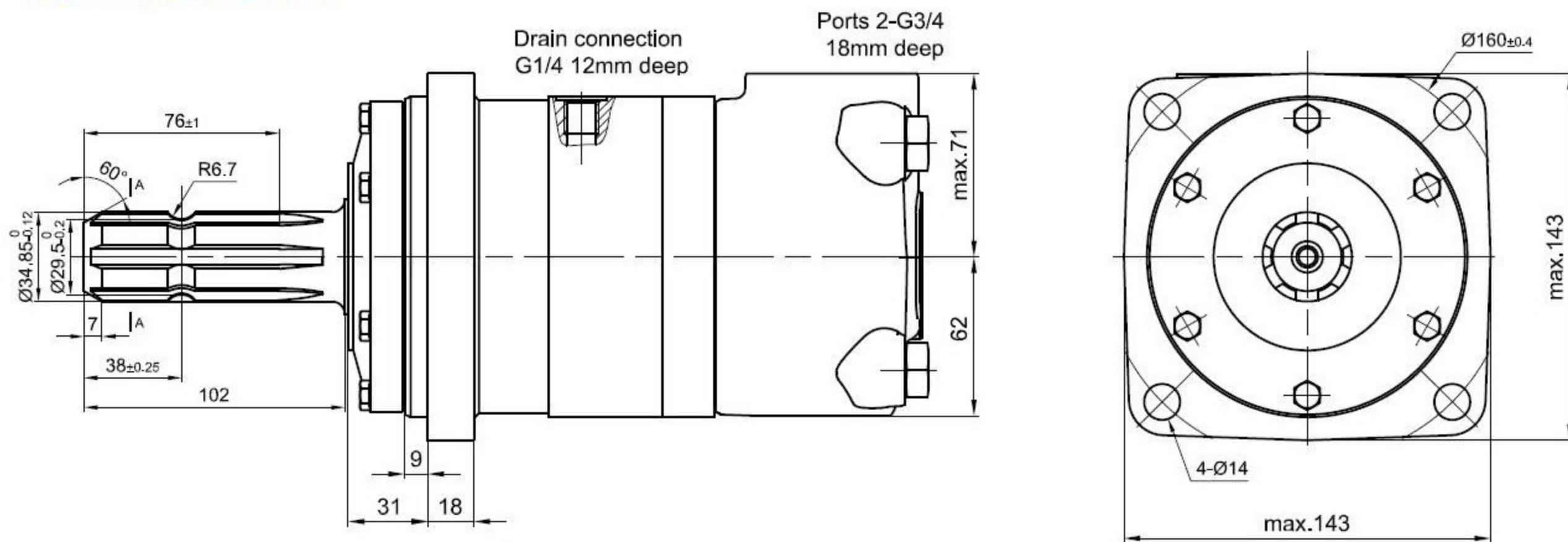


HPM Model	Danfoss Model	M+S Model	L mm	L1 mm	L2 mm
BMT-160-K6-T1-S**	151B-2062	MLHT-160-T4**	193	14	142.5
BMT-200-K6-T1-S**	151B-2063	MLHT-200-T4**	197	17	146.5
BMT-250-K6-T1-S**	151B-2064	MLHT-250-T4**	204	20	152.5
BMT-315-K6-T1-S**	151B-2065	MLHT-315-T4**	210	22	158.5
BMT-400-K6-T1-S**	151B-2066	MLHT-400-T4**	217	27	165.5
BMT-500-K6-T1-S**	151B-2067	MLHT-500-T4**	225	35	173.5
BMT-630-K6-T1-S**			237	47	185.5
BMT-800-K6-T1-S**			248	58	196.5

BMT Series hydraulic orbit motor

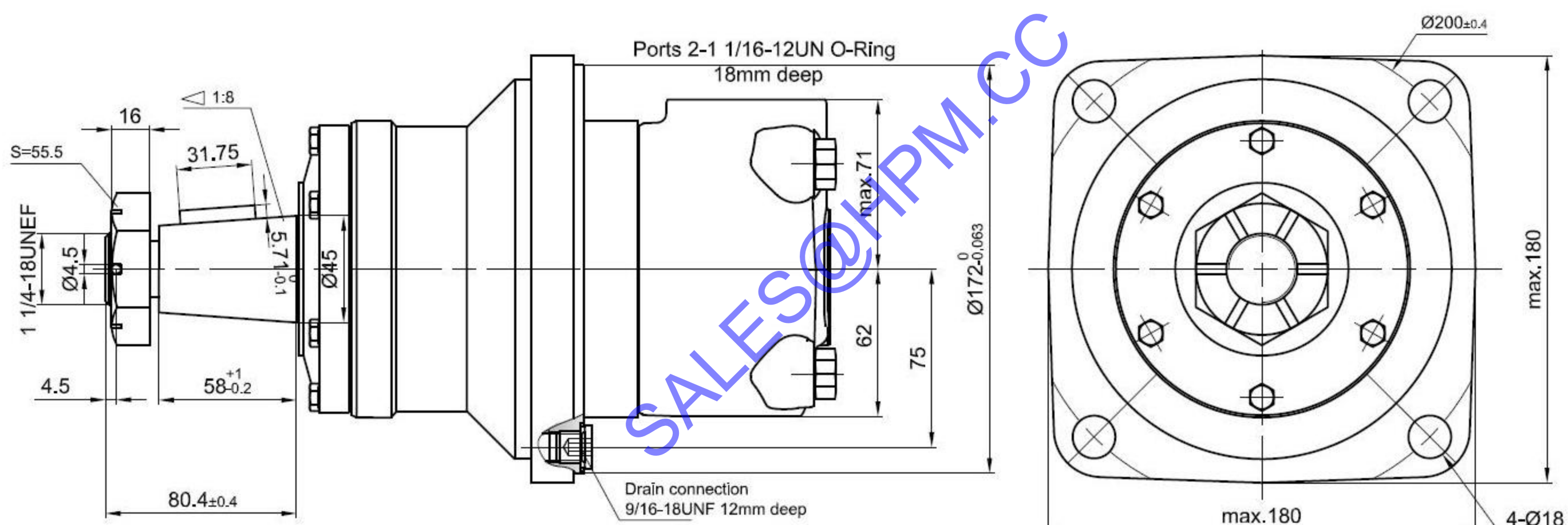
Popular model drawing

BMT-x-4-SL-D



HPM Model	Danfoss Model	M+S Model	L mm	L1 mm	L2 mm	
BMT-160-4-SL-D**	151B-3018	P.T.O.Type With Drain Port	EPMT-160-SL**	193	14	142.5
BMT-200-4-SL-D**	151B-3019		EPMT-200-SL**	197	17	146.5
BMT-250-4-SL-D**	151B-3020		EPMT-250-SL**	204	20	152.5
BMT-315-4-SL-D**	151B-3021		EPMT-315-SL**	210	22	158.5
BMT-400-4-SL-D**	151B-3022		EPMT-400-SL**	217	27	165.5
BMT-500-4-SL-D**	151B-3023		EPMT-500-SL**	225	35	173.5
BMT-630-4-SL-D**				237	47	185.5
BMT-800-4-SL-D**				248	58	196.5

BMT-x-W-T1-S

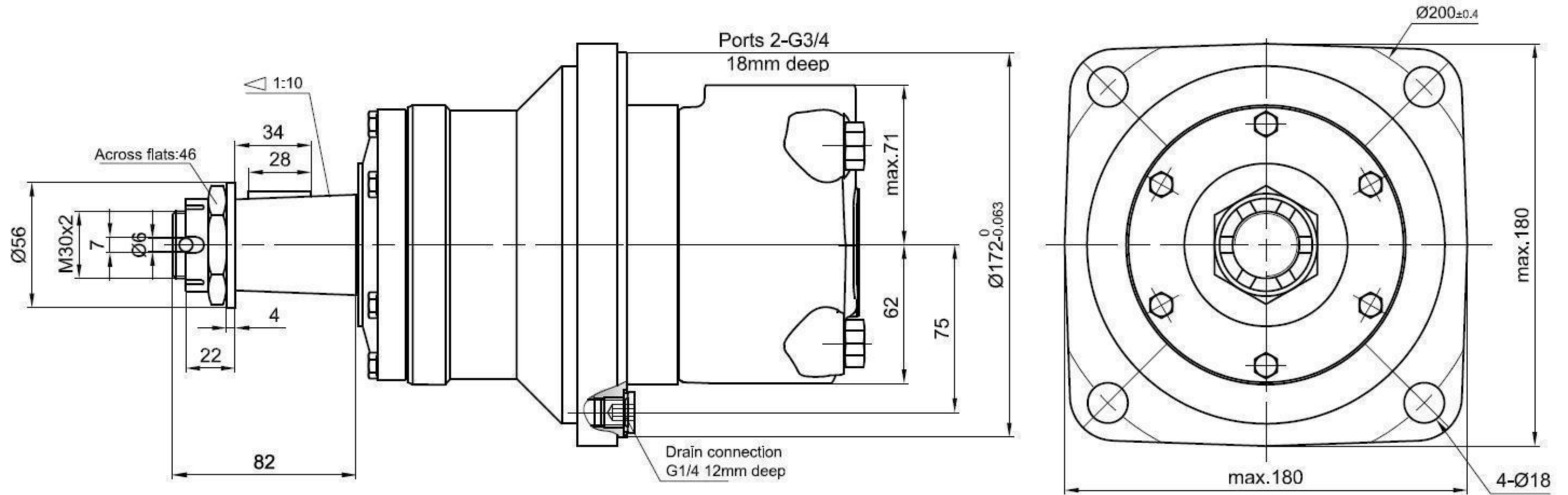


HPM Model	Danfoss Model	M+S Model	L mm	L1 mm	L2 mm	
BMT-160-W-T1-S**	151B-2080	With Drain Port	MLHT-W160-T4**	127	14	77
BMT-200-W-T1-S**	151B-2081		MLHT-W200-T4**	131	17	81
BMT-250-W-T1-S**	151B-2082		MLHT-W250-T4**	136	20	86
BMT-315-W-T1-S**	151B-2083		MLHT-W315-T4**	142	22	91
BMT-400-W-T1-S**	151B-2084		MLHT-W400-T4**	148	27	98
BMT-500-W-T1-S**	151B-2085		MLHT-W500-T4**	157	35	106
BMT-630-W-T1-S**				169	47	118
BMT-800-W-T1-S**				180	58	129

BMT Series hydraulic orbit motor

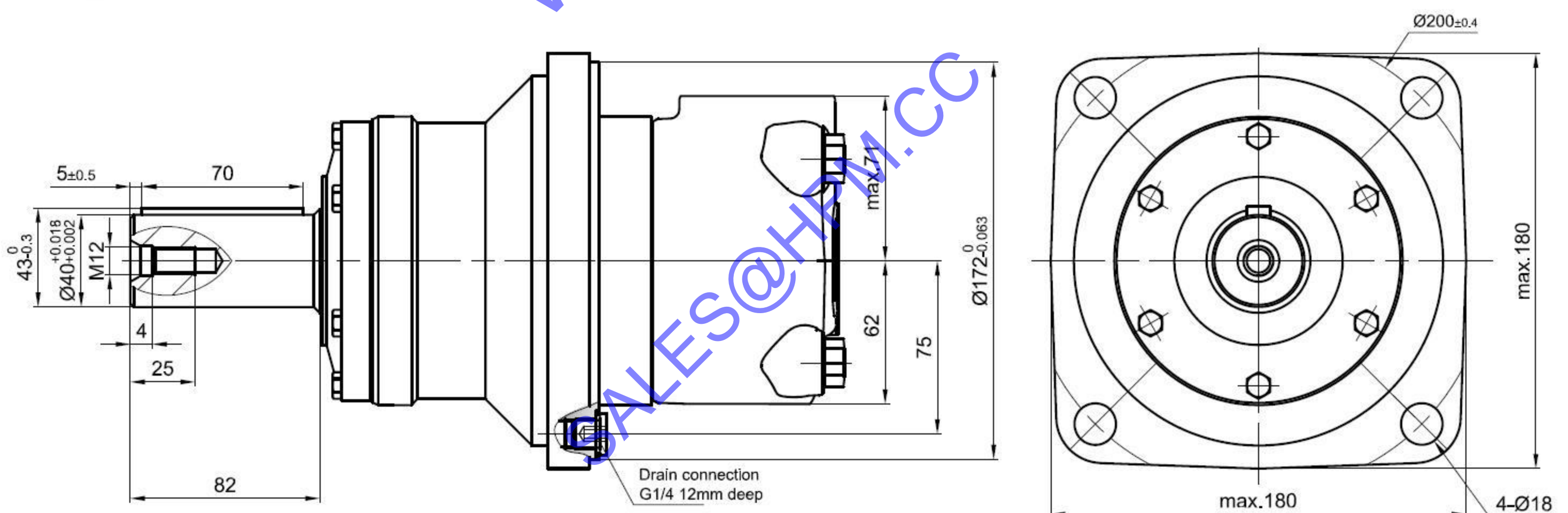
Popular model drawing

BMT-x-W-T-D



HPM Model	Danfoss Model	M+S Model	L mm	L1 mm	L2 mm	
BMT-160-W-T-D**	151B-3030	With Drain Port	EPMT-W160-K**	127	14	77
BMT-200-W-T-D**	151B-3031		EPMT-W200-K**	131	17	81
BMT-250-W-T-D**	151B-3032		EPMT-W250-K**	136	20	86
BMT-315-W-T-D**	151B-3033		EPMT-W315-K**	142	22	91
BMT-400-W-T-D**	151B-3034		EPMT-W400-K**	148	27	98
BMT-500-W-T-D**	151B-3035		EPMT-W500-K**	157	35	106
BMT-630-W-T-D**				169	47	118
BMT-800-W-T-D**				180	58	129

BMT-x-W-M-D

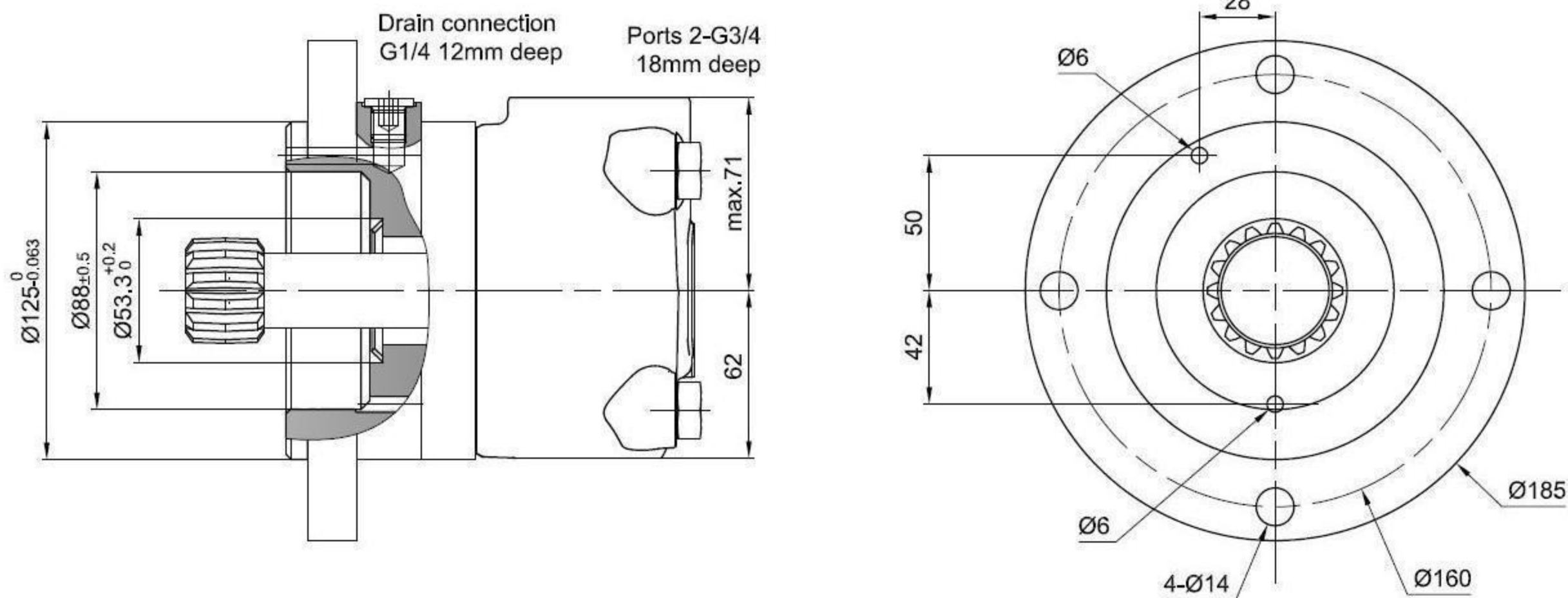


HPM Model	Danfoss Model	M+S Model	L mm	L1 mm	L2 mm	
BMT-160-W-M-D**	151B-3024	With Drain Port	EPMT-W160-C**	127	14	77
BMT-200-W-M-D**	151B-3025		EPMT-W200-C**	131	17	81
BMT-250-W-M-D**	151B-3026		EPMT-W250-C**	136	20	86
BMT-315-W-M-D**	151B-3027		EPMT-W315-C**	142	22	91
BMT-400-W-M-D**	151B-3028		EPMT-W400-C**	148	27	98
BMT-500-W-M-D**	151B-3029		EPMT-W500-C**	157	35	106
BMT-630-W-M-D**				169	47	118
BMT-800-W-M-D**				180	58	129

BMT Series hydraulic orbit motor

Popular model drawing

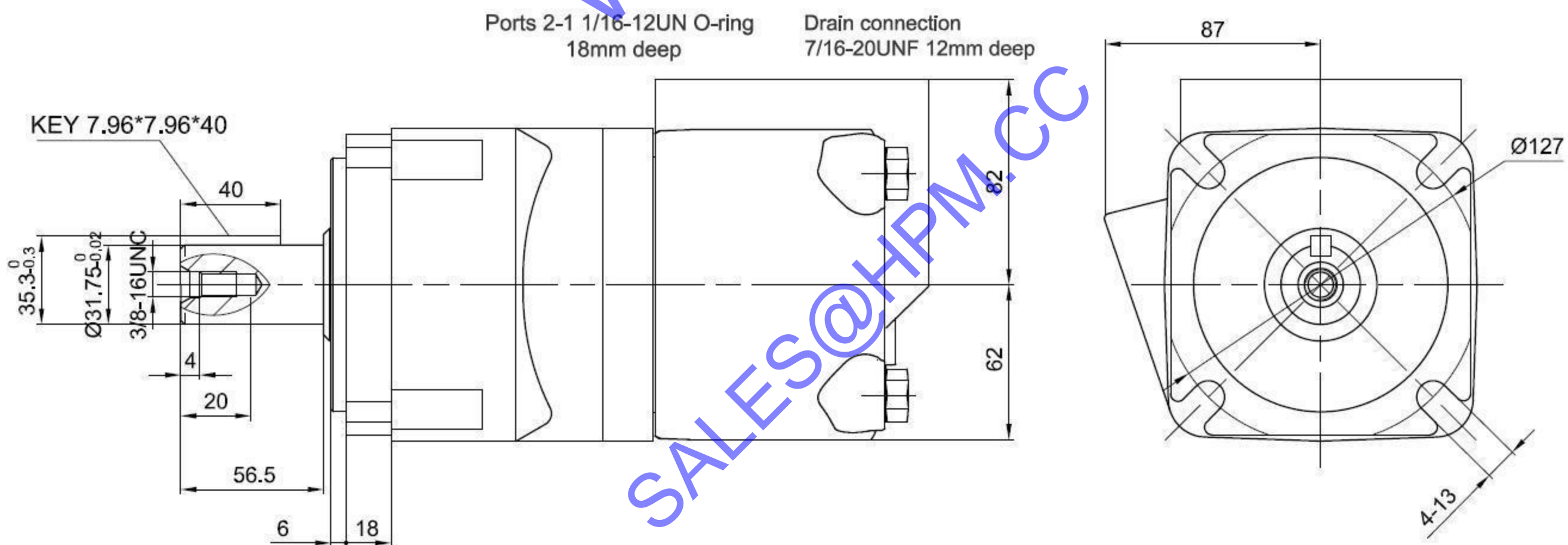
BMTS-x-D-D



HPM Model	Danfoss Model	M+S Model	L mm	L1 mm	L2 mm
BMTS-160-D-D	151B-3036	EPMT-S160**	148	17	96.5
BMTS-200-D-D	151B-3037	EPMT-S200**	152	21	100.5
BMTS-250-D-D	151B-3038	EPMT-S250**	157	14	109
BMTS-315-D-D	151B-3039	EPMT-S315**	163	20	115
BMTS-400-D-D	151B-3040	EPMT-S400**	170	27	122
BMTS-500-D-D	151B-3041	EPMT-S500**	178	35	130
BMTS-630-D-D			190	47	142
BMTS-800-D-D			201	58	153

With Drain Port

BMTE-x-B2E-G1-SE1



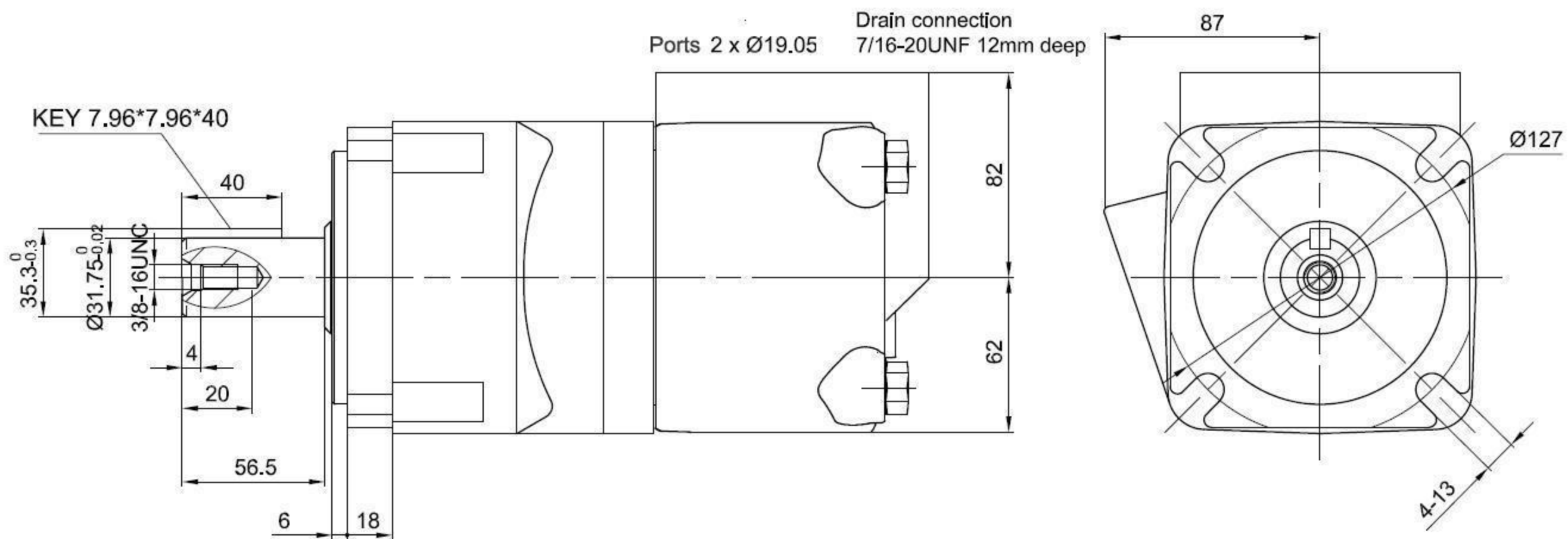
HPM Model	Eaton Model	L mm	L1 mm	L2 mm
BMTE-160-B2E-G1-SE1	M04-099AB01AB***	231.5	17	164
BMTE-200-B2E-G1-SE1	M04-125AB01AB***	235.5	21	168
BMTE-230-B2E-G1-SE1		238.5	12	164.5
BMTE-250-B2E-G1-SE1	M04-150AB01AB***	240.5	14	166.5
BMTE-315-B2E-G1-SE1	M04-190AB01AB***	246.5	20	172.5
BMTE-400-B2E-G1-SE1	M04-240AB01AB***	253.5	27	179.5
BMTE-500-B2E-G1-SE1	M04-301AB01AB***	261.5	35	187.5
BMTE-630-B2E-G1-SE1	M04-381AB01AB***	273.5	47	199.5
BMTE-800-B2E-G1-SE1		284.5	58	210.5

With Drain Port

BMT Series hydraulic orbit motor

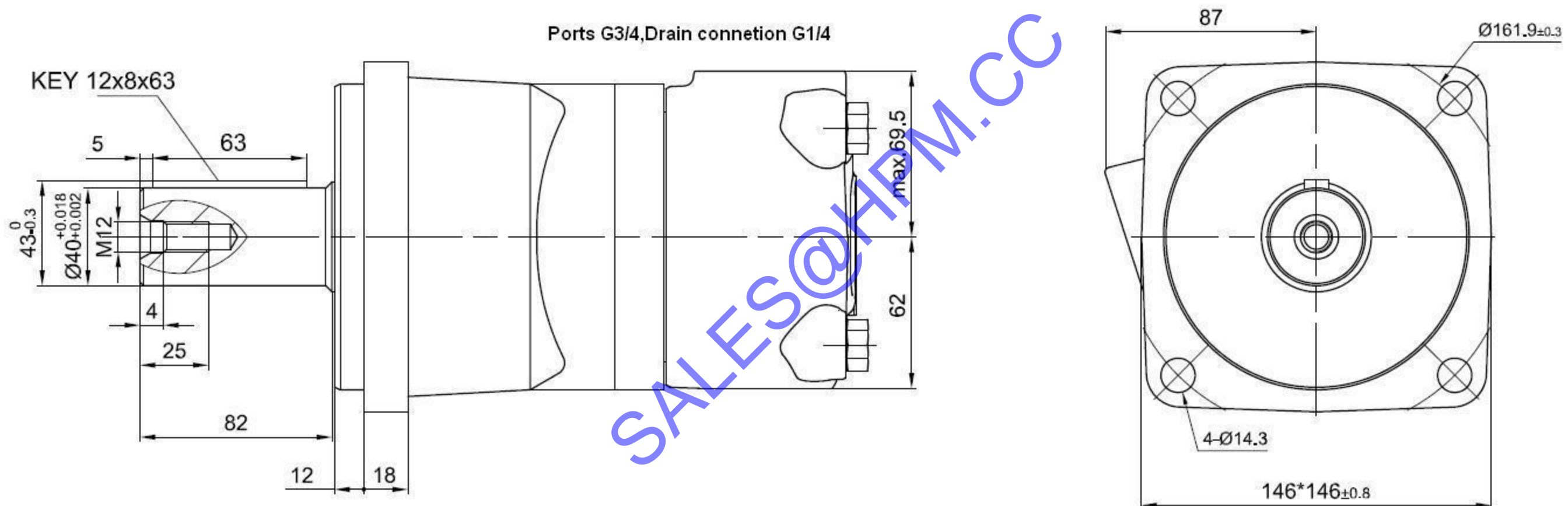
Popular model drawing

BMTE-x-B2E-G1-SF



HPM Model	Eaton Model		L mm	L1 mm	L2 mm
BMTE-160-B2E-G1-SF	M04-099AB01AD***	With Drain Port	231.5	17	164
BMTE-200-B2E-G1-SF	M04-125AB01AD***		235.5	21	168
BMTE-230-B2E-G1-SF			238.5	12	164.5
BMTE-250-B2E-G1-SF	M04-150AB01AD***		240.5	14	166.5
BMTE-315-B2E-G1-SF	M04-190AB01AD***		246.5	20	172.5
BMTE-400-B2E-G1-SF	M04-240AB01AD***		253.5	27	179.5
BMTE-500-B2E-G1-SF	M04-301AB01AD***		261.5	35	187.5
BMTE-630-B2E-G1-SF	M04-381AB01AD***		273.5	47	199.5
BMTE-800-B2E-G1-SF			284.5	58	210.5

BMTE-x-CC-Y1-SE2

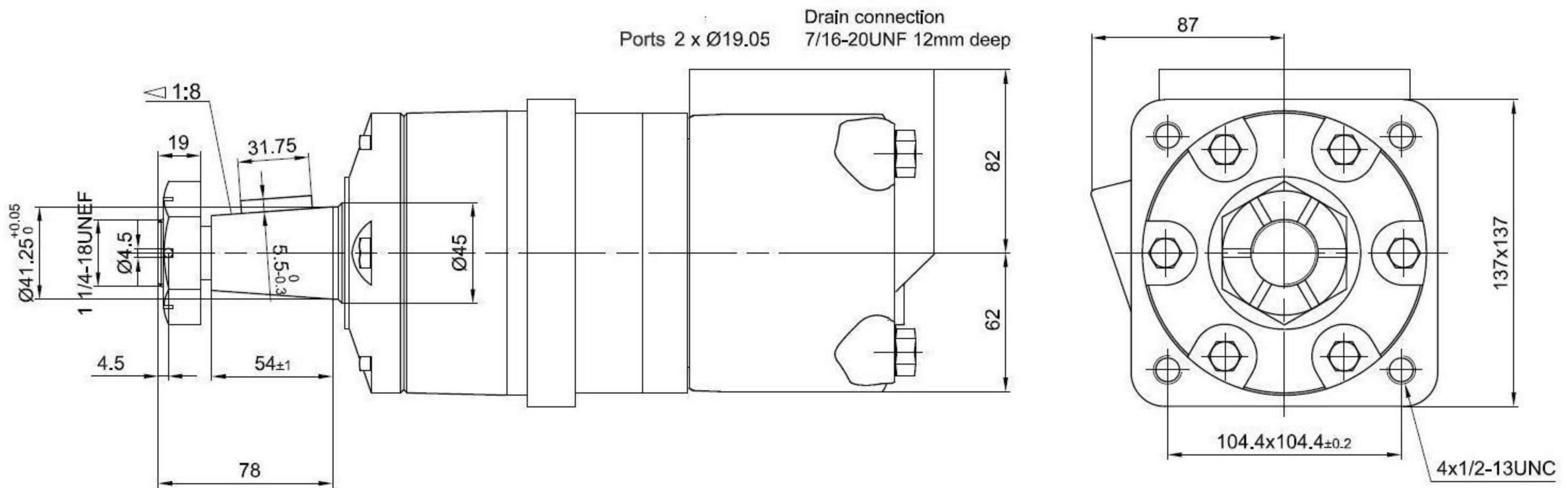


HPM Model	Eaton Model		L mm	L1 mm	L2 mm
BMTE-160-CC-Y1-SE2	M04-099AF11AC***	With Drain Port	231.5	17	164
BMTE-200-CC-Y1-SE2	M04-125AF11AC***		235.5	21	168
BMTE-230-CC-Y1-SE2			238.5	12	164.5
BMTE-250-CC-Y1-SE2	M04-150AF11AC***		240.5	14	166.5
BMTE-315-CC-Y1-SE2	M04-190AF11AC***		246.5	20	172.5
BMTE-400-CC-Y1-SE2	M04-240AF11AC***		253.5	27	179.5
BMTE-500-CC-Y1-SE2	M04-301AF11AC***		261.5	35	187.5
BMTE-630-CC-Y1-SE2	M04-381AF11AC***		273.5	47	199.5
BMTE-800-CC-Y1-SE2			284.5	58	210.5

BMT Series hydraulic orbit motor

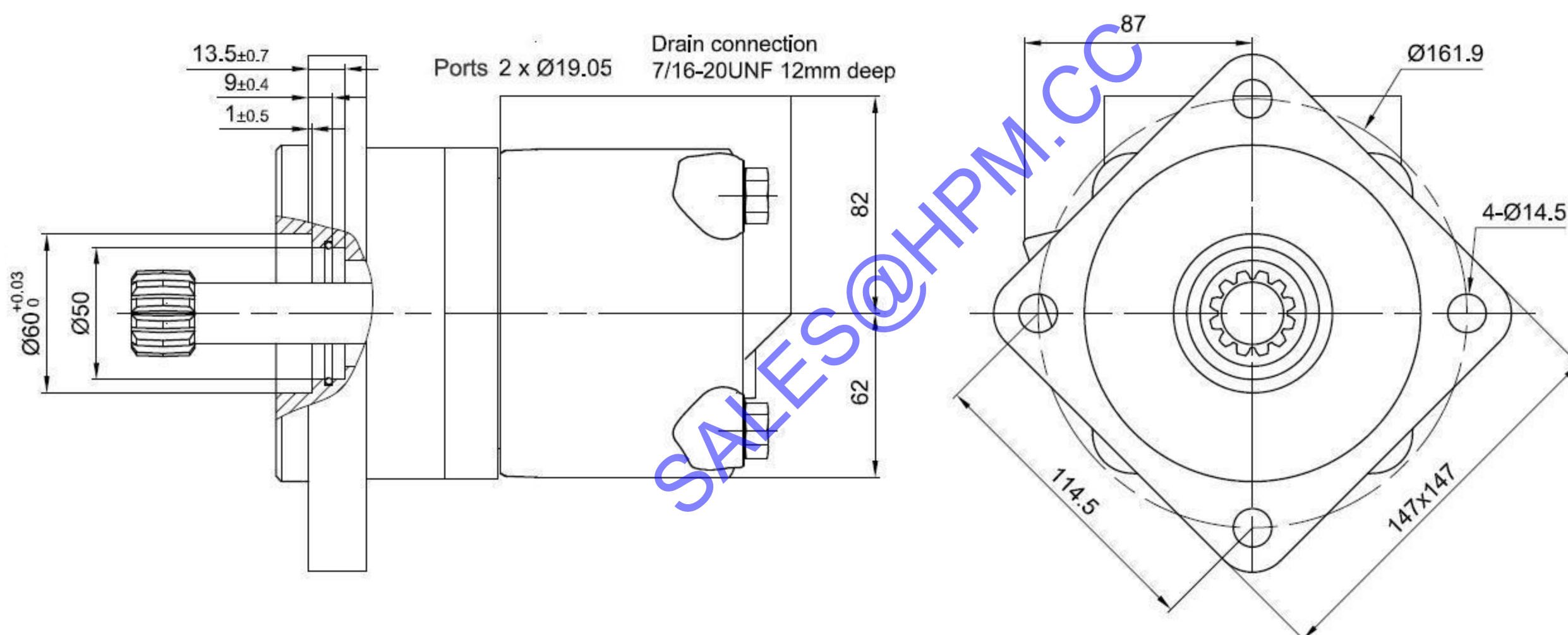
Popular model drawing

BMTE-x-WE-T2-SF



HPM Model	Eaton Model		L mm	L1 mm	L2 mm
BMTE-160-WE-T2-SF	M04-099AD02AD***	With Drain Port	162	17	104.5
BMTE-200-WE-T2-SF	M04-125AD02AD***		166	21	108.5
BMTE-230-WE-T2-SF			169	12	105
BMTE-250-WE-T2-SF	M04-150AD02AD***		170.5	14	107.5
BMTE-315-WE-T2-SF	M04-190AD02AD***		176.5	20	113.5
BMTE-400-WE-T2-SF	M04-240AD02AD***		183.5	27	120.5
BMTE-500-WE-T2-SF	M04-301AD02AD***		191.5	35	128.5
BMTE-630-WE-T2-SF	M04-381AD02AD***		203.5	47	140.5
BMTE-800-WE-T2-SF			214.5	58	151.5

BMTJ-x-F-SF



HPM Model	Eaton Model		L mm	L1 mm	L2 mm
BMTJ-160-J-SF	M04-099AA00AD***	With Drain Port	165	17	97.5
BMTJ-200-J-SF	M04-125AA00AD***		169	21	99.5
BMTJ-230-J-SF			176	12	104.5
BMTJ-250-J-SF	M04-150AA00AD***		178	14	106.5
BMTJ-315-J-SF	M04-190AA00AD***		184	20	112.5
BMTJ-400-J-SF	M04-240AA00AD***		191	27	119.5
BMTJ-500-J-SF	M04-301AA00AD***		199	35	127.5
BMTJ-630-J-SF	M04-381AA00AD***		211	47	139.5
BMTJ-800-J-SF			222	58	150.5

BMV Series hydraulic orbit motor



BMV-Replace with Danfoss OMV SERIES,M+S EPMV/MLHV SERIES

Parameters

Type		BMV-315	BMV-400	BMV-500	BMV-630	BMV-800	BMV -1000
Displacement		333	419	518	666	801	990
Max. speed (rpm)	cont.	510	500	400	320	250	200
	int.	630	600	480	380	300	240
Max. torque (N•m)	cont.	920	1180	1460	1660	1880	2015
	int.	1110	1410	1760	1940	2110	2280
	peak	1290	1640	2050	2210	2470	2400
Max. output (kW)	cont.	38	47	47	40	33	28.6
	int.	46	56	56	56	44	40
Max.pressure drop (MPa)	cont.	20	20	20	18	16	14
	int.	24	24	24	21	18	16
	peak	28	28	28	24	21	18
Max.flow(L/min)	cont.	160	200	200	200	200	200
	int.	200	240	240	240	240	240
Weight(kg)		31.8	32.6	33.5	34.9	36.5	38.6

Selection

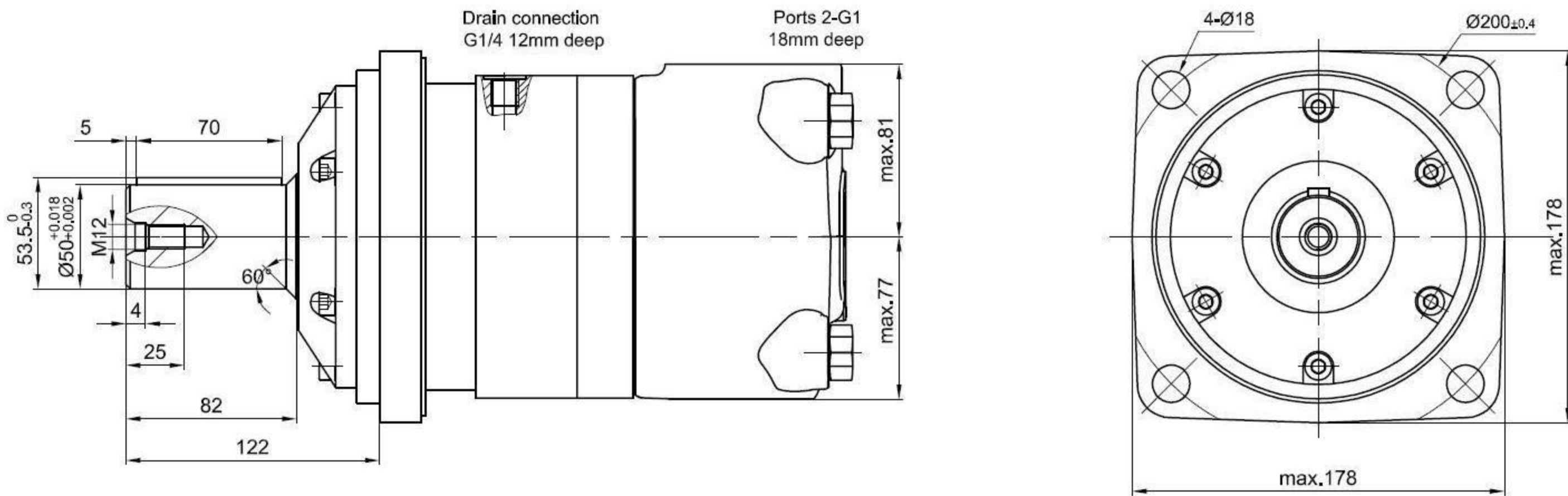
1	2	3	4
Series	Displacement	Flange	Output shaft
BMV	315	Code 4: 4-Ø18 Square-flange , Ø200 , pilot Ø 160*11 Code W : 4-Ø18 Wheel-flange , Ø224 , pilot Ø 180*10	Code A: Ø50 ,Parallel key 14×9×70 Code B: Ø2.15 inch,Splined key 16-DP8/16 (US version) Code BD: Ø2.15 inch,Splined key 16-DP8/16 (Europe version) Code C: Ø2.25 inch,Parallel key 12.7×12.7×57.15 Code T: Ø 60 Cone shaft 1:10 ,Parallel key 16×10×32 Code T1: Ø 57.2 Cone shaft 1:8,Parallel key 14.308×14.308×50.8(With locknut)
	400		
	500		
	630		
	800		
	1000		
5	6	7	8
Port and drain port	Rotation direction	Paint	Unusually function
Code D: G 1 Manifold mount 4*M12,G1/4 Code M : M33*2 Manifold mount 4*M12,M14*1.5 Code S: 1-5/16-12UN,9/16-18UNF Code S1: 1-5/16-12UN ,7/16-20UNF	Omit: Standard Code R: Opposite	Omit: Blue Code 00: No paint Code B: Black Code S: Silver Grey	Omit: Standard

BMV Series hydraulic orbit motor



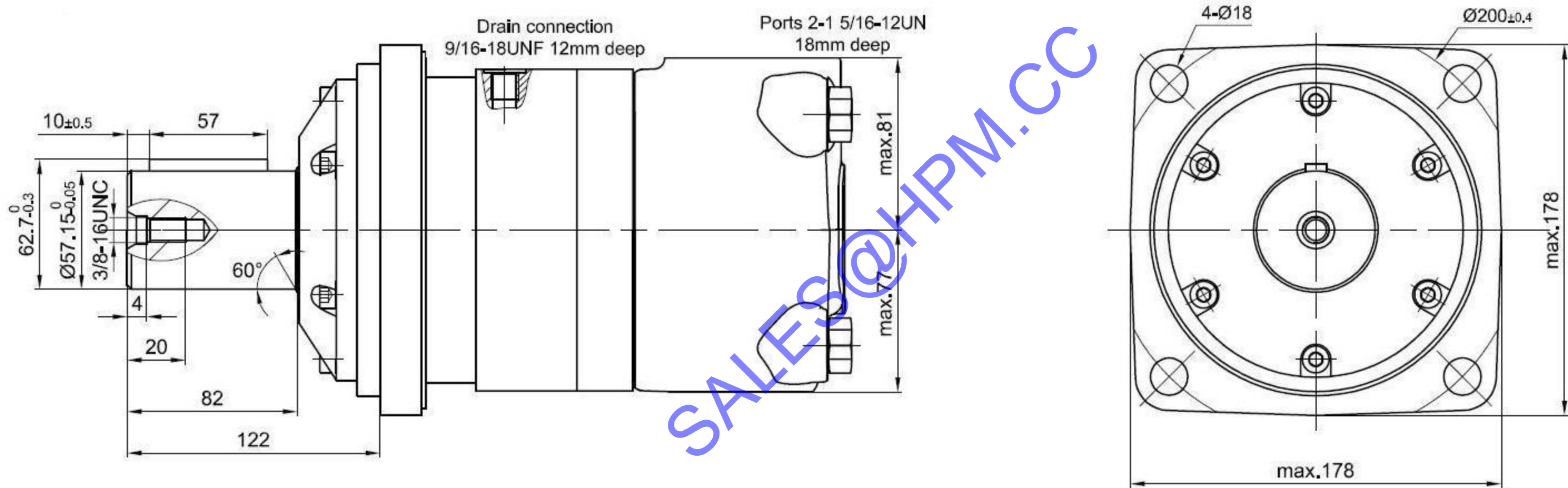
Popular model drawing

BMV-x-4-A-D**



HPM Model	Danfoss Model	M+S Model	L mm	L1 mm	L2 mm	
BMV-315-4-A-D	151B-3100	With Drain Port EPMV-315-C**	217	20	161.5	
BMV-400-4-A-D	151B-3101		EPMV-400-C**	224	27	168.5
BMV-500-4-A-D	151B-3102		EPMV-500-C**	232	35	176.5
BMV-630-4-A-D	151B-3103		EPMV-630-C**	244	47	188.5
BMV-800-4-A-D	151B-3104		EPMV-800-C**	255	58	199.5
BMV-1000-4-A-D				271	74	215.5

BMV-x-4-C-S**



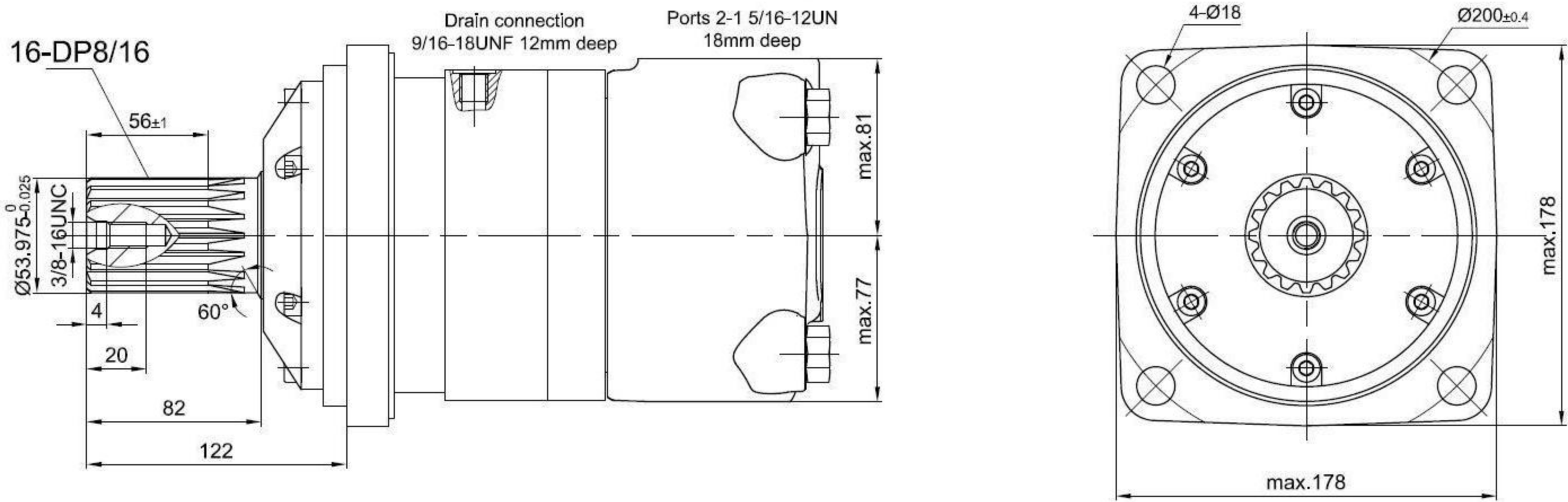
HPM Model	Danfoss Model	M+S Model	L mm	L1 mm	L2 mm	
BMV-315-4-C-S	151B-2150	With Drain Port MLHV-315-C**	217	20	161.5	
BMV-400-4-C-S	151B-2151		MLHV-400-C**	224	27	168.5
BMV-500-4-C-S	151B-2152		MLHV-500-C**	232	35	176.5
BMV-630-4-C-S	151B-2153		MLHV-630-C**	244	47	188.5
BMV-800-4-C-S	151B-2154		MLHV-800-C**	255	58	199.5
BMV-1000-4-C-S				271	74	215.5

BMV Series hydraulic orbit motor



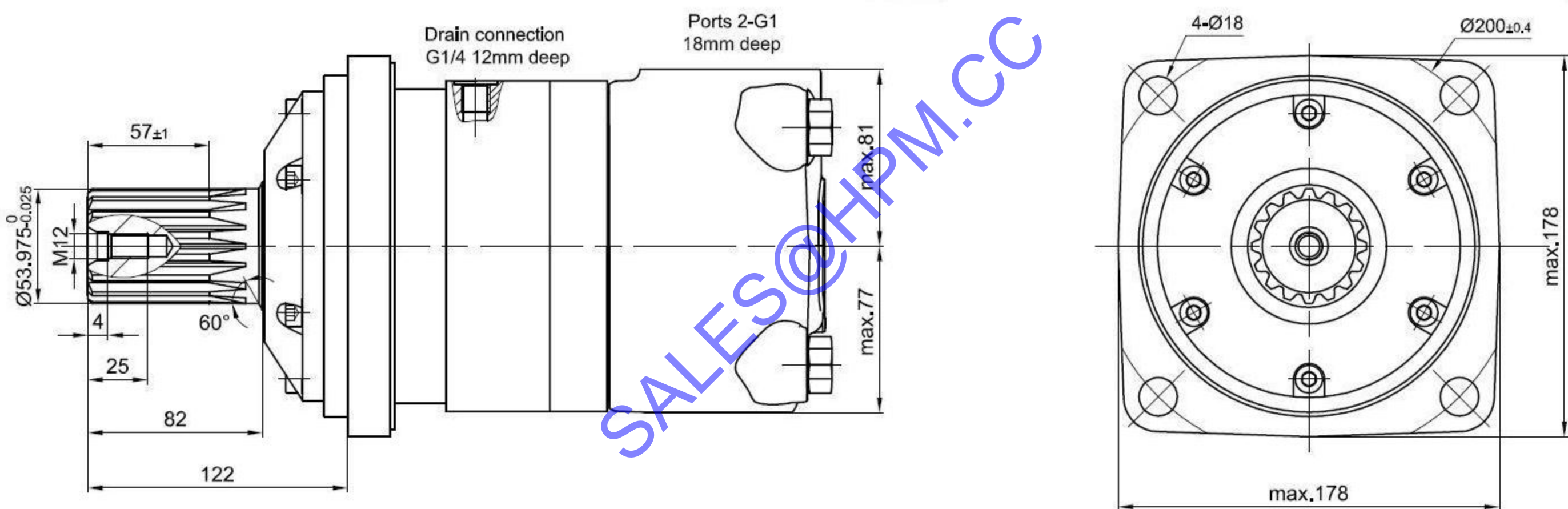
Popular model drawing

BMV-x-4-B-S**



HPM Model	Danfoss Model	M+S Model	L mm	L1 mm	L2 mm	
BMV-315-4-B-S	151B-2155	With Drain Port MLHV-315-G**	217	20	161.5	
BMV-400-4-B-S	151B-2156		MLHV-400-G**	224	27	168.5
BMV-500-4-B-S	151B-2157		MLHV-500-G**	232	35	176.5
BMV-630-4-B-S	151B-2158		MLHV-630-G**	244	47	188.5
BMV-800-4-B-S	151B-2159		MLHV-800-G**	255	58	199.5
BMV-1000-4-B-S				271	74	215.5

BMV-x-4-BD-D**



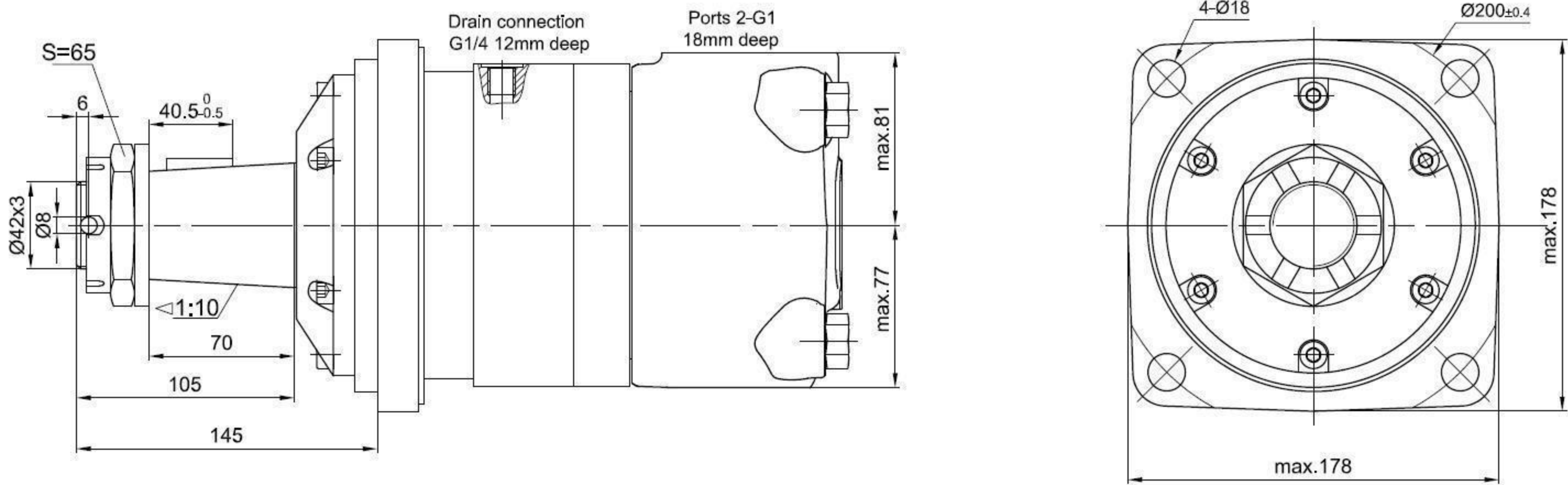
HPM Model	Danfoss Model	M+S Model	L mm	L1 mm	L2 mm	
BMV-315-4-BD-D	151B-3105	With Drain Port EPMV-315-SH**	217	20	161.5	
BMV-400-4-BD-D	151B-3106		EPMV-400-SH**	224	27	168.5
BMV-500-4-BD-D	151B-3107		EPMV-500-SH**	232	35	176.5
BMV-630-4-BD-D	151B-3108		EPMV-630-SH**	244	47	188.5
BMV-800-4-BD-D	151B-3109		EPMV-800-SH**	255	58	199.5
BMV-1000-4-BD-D				271	74	215.5

BMV Series hydraulic orbit motor



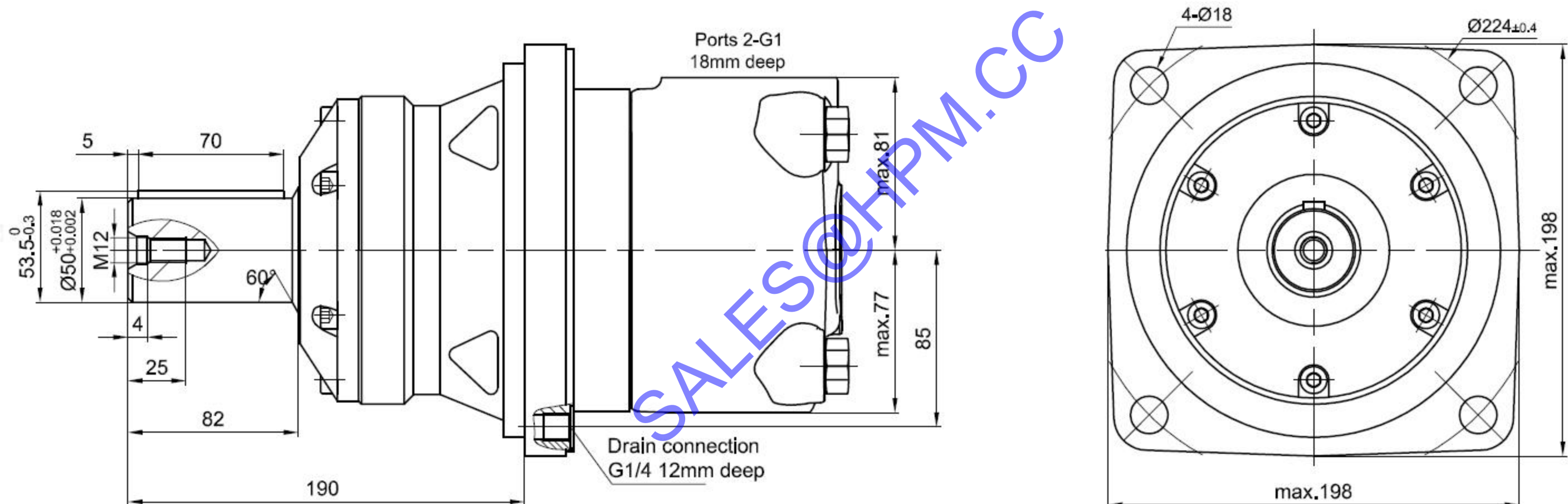
Popular model drawing

BMV-x-4-T-D**



HPM Model	Danfoss Model	M+S Model	L mm	L1 mm	L2 mm
BMV-315-4-T-D	151B-3110	EPMV-315-K**	217	20	161.5
BMV-400-4-T-D	151B-3111	EPMV-400-K**	224	27	168.5
BMV-500-4-T-D	151B-3112	EPMV-500-K**	232	35	176.5
BMV-630-4-T-D	151B-3113	EPMV-630-K**	244	47	188.5
BMV-800-4-T-D	151B-3114	EPMV-800-K**	255	58	199.5
BMV-1000-4-T-D			271	74	215.5

BMV-x-W-A-D**



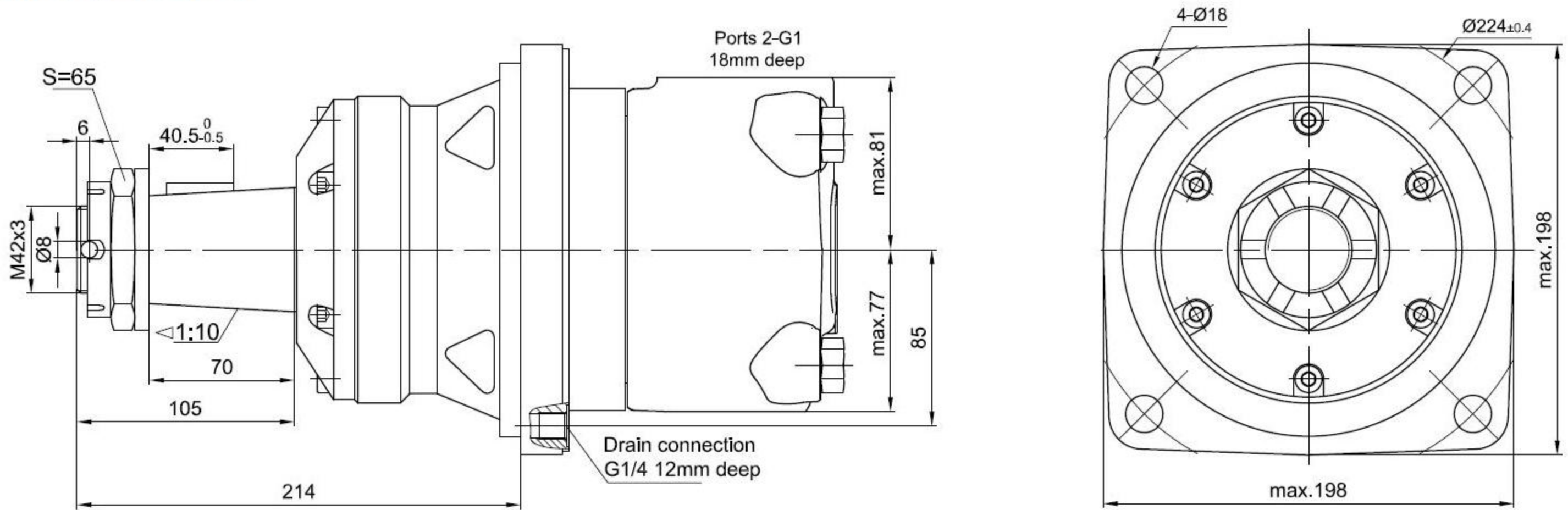
HPM Model	Danfoss Model	M+S Model	L mm	L1 mm	L2 mm
BMV-315-W-A-D	151B-3115	EPMV-W315-C**	148.5	20	93.5
BMV-400-W-A-D	151B-3116	EPMV-W400-C**	155.5	27	100.5
BMV-500-W-A-D	151B-3117	EPMV-W500-C**	163.5	35	108.5
BMV-630-W-A-D	151B-3118	EPMV-W630-C**	175.5	47	120.5
BMV-800-W-A-D	151B-3119	EPMV-W800-C**	186.5	58	131.5
BMV-1000-W-A-D			202.5	74	147.5

BMV Series hydraulic orbit motor



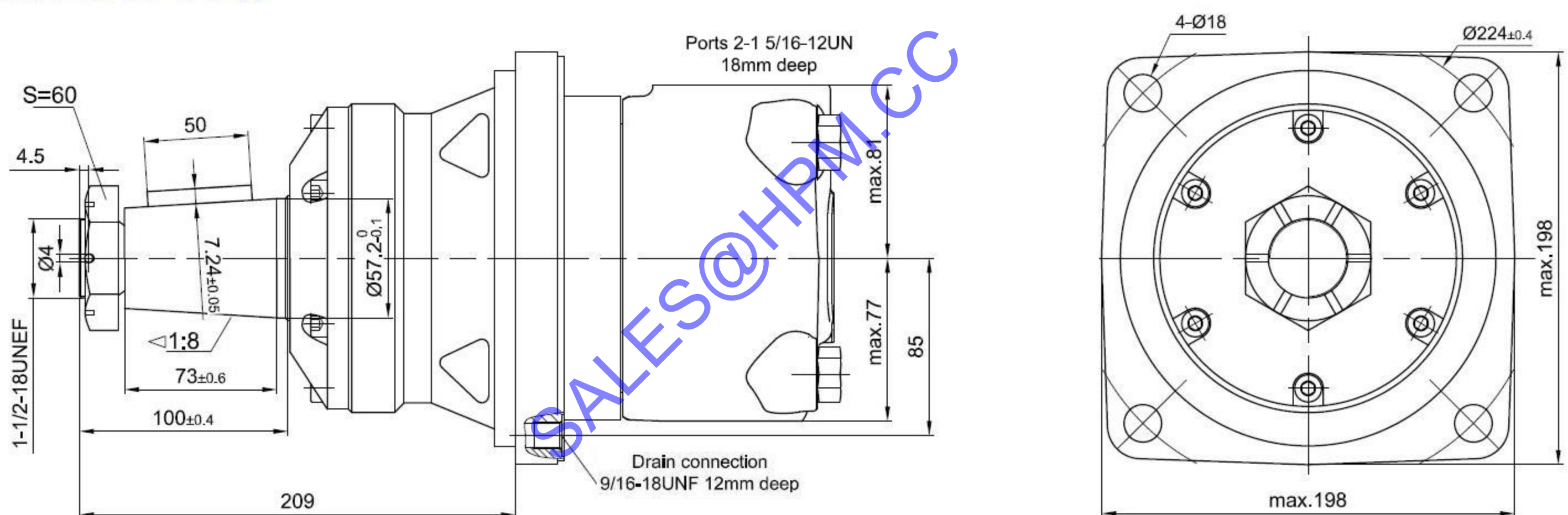
Popular model drawing

BMV-x-W-T-D**



HPM Model	Danfoss Model	M+S Model	L mm	L1 mm	L2 mm
BMV-315-W-T-D**	151B-3120	EPMV-W315-K**	148.5	20	93.5
BMV-400-W-T-D**	151B-3121	EPMV-W400-K**	155.5	27	100.5
BMV-500-W-T-D**	151B-3122	EPMV-W500-K**	163.5	35	108.5
BMV-630-W-T-D**	151B-3123	EPMV-W630-K**	175.5	47	120.5
BMV-800-W-T-D**	151B-3124	EPMV-W800-K**	186.5	58	131.5
BMV-1000-W-T-D**			202.5	74	147.5

BMV-x-W-T1-S**



HPM Model	Danfoss Model	M+S Model	L mm	L1 mm	L2 mm
BMV-315-W-T1-S**	151B-2170	MLHV-W*315-T**	148.5	20	93.5
BMV-400-W-T1-S**	151B-2171	MLHV-W*400-T**	155.5	27	100.5
BMV-500-W-T1-S**	151B-2172	MLHV-W*500-T**	163.5	35	108.5
BMV-630-W-T1-S**	151B-2173	MLHV-W*630-T**	175.5	47	120.5
BMV-800-W-T1-S**	151B-2174	MLHV-W*800-T**	186.5	58	131.5
BMV-1000-W-T1-S**			202.5	74	147.5

BME2 Series hydraulic orbit motor



BME2- Replace with Packer TE SERIES

Parameters

Type		BME2 -65	BME2 -80	BME2 -100	BME2 -125	BME2 -160	BME2 -200	BME2 -230	BME2 -250	BME2 -295	BME2 -315	BME2 -375
Displacement		66.8	81.3	102	127	157.2	193.6	226	257	287.8	314.5	370
Max. speed (rpm)	cont.	667	543	439	350	283	229	247	216	196	178	152
	int.	842	689	553	441	355	289	328	287	254	235	199
Max. torque (N•m)	cont.	110	136	165	214	265	312	318	329	348	364	372
	int.	126	157	191	245	307	382	378	381	393	448	439
	peak	176	215	268	335	422	520	528	543	547	587	613
Max. output (kW)	cont.	8.3	8.8	7.9	8.9	8.9	9	9.9	9.3	8.7	8	7.6
	int.	13.9	14.4	13.5	14.1	15.6	15.7	17.9	16.5	15.6	14.3	14
Max. pressure drop (MPa)	cont.	14	14	14	14	14	14	12	11	10	10	9
	int.	19	19	19	19	19	19	16.5	15.5	14.5	13.5	12.5
	peak	20	20	20	20	20	20	18	18	17	16	16
Max. flow (L/min)	cont.	45	45	45	45	45	57	57	57	57	57	57
	int.	57	57	57	57	57	75	75	75	75	75	75

Selection

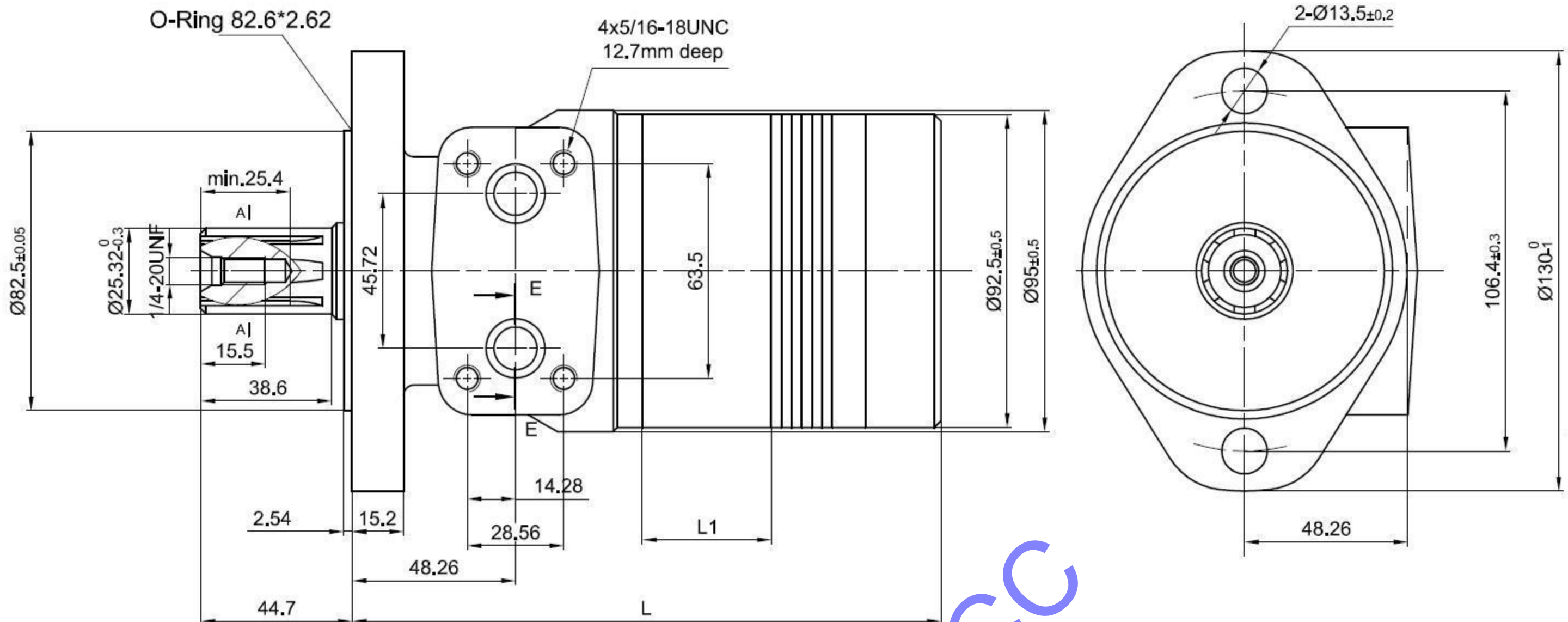
1	2	3	4	6	7
Series	Displacement	Flange&Ports	Output shaft	Rotation direction	Paint
BME2	80	Code WM: 4-Ø13.5 Wheel-flange, pilot Ø 60.3×7 port M22*1.5	Code S: Ø25.4, Splined tooth SAE 6B Code H: Ø25.4, Cylindrical shaft, Pin hole Ø9.7 Code K: Ø25.4 Woodruff key Ø25.4*6.35 Code A: Ø25 Parallel key 7.95×7.95×31.75 Code T: Ø 25.4 Cone shaft, Woodruff key Ø25.4*6.35	Omit: Standard Opposite	Omit: Blue Code 00: No paint, Code B: Black Code S: Silver Grey
	100	Code WD: 4-Ø13.5 Wheel-flange, pilot Ø 60.3×7 port G1/2			
	125	Code WS: 4-Ø13.5 Wheel-flange, pilot Ø 60.3×7 port 7/8-14 O-ring			
	160	Code HM: 2-Ø13.5 Rhomb-flange, pilot Ø 82.5×2.54 port 1/2 inch Manifold mount 4×			
	200	Code HS: 2-Ø13.5 Rhomb-flange, pilot Ø 82.5×2.54 port 7/8-14 O-ring			
	230	Code HP: 2-Ø13.5 Rhomb-flange, pilot Ø 82.5×2.54 port 1/2-14 NPFT Pipe			
	230	Code HD: 2-Ø13.5 Rhomb-flange, pilot Ø 82.5×2.54 port G1/2			
	250	Code HG: 2-Ø13.5 Rhomb-flange, pilot Ø 82.5×2.54 port M22*1.5			
	295	Code H4S: 4-3/8-16Square-flange, pilot Ø 44.4×2.54 port 7/8-14 O-ring			
	315	Code H4P: 4-3/8-16Square-flange, pilot Ø 44.4×2.54 port 1/2-14 NPFT Pipe			
375	Code H4D: 4-3/8-16Square-flange, pilot Ø 44.4×2.54 port G1/2				

BME2 Series hydraulic orbit motor



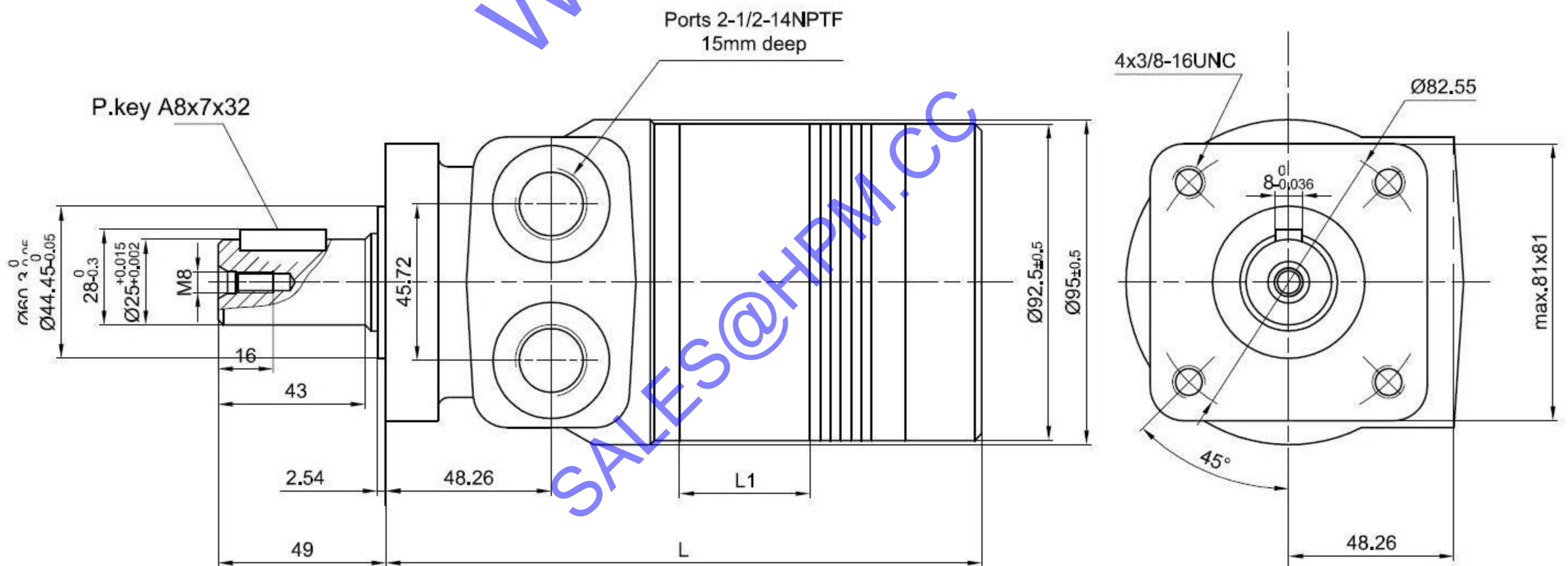
Popular model drawing

BME2-x-HMS**



HPM Model	Packer Model	L mm	L1 mm	HPM Model	Packer Model	L mm	L1 mm
BME2-65-HMS**	TE0065AM11**	149	13	BME2-230-HMS**	TE00230AM11**	180	44
BME2-80-HMS**	TE0080AM11**	152	16	BME2-250-HMS**	TE00260AM11**	186	50
BME2-100-HMS**	TE00100AM11**	156	20	BME2-295-HMS**	TE00295AM11**	192	56
BME2-125-HMS**	TE00130AM11**	161	25	BME2-315-HMS**	TE00330AM11**	198	62
BME2-160-HMS**	TE00165AM11**	167	30.5	BME2-375-HMS**	TE00365AM11**	210	74
BME2-200-HMS**	TE00195AM11**	174	38.1				

BME2-x-H4PA**



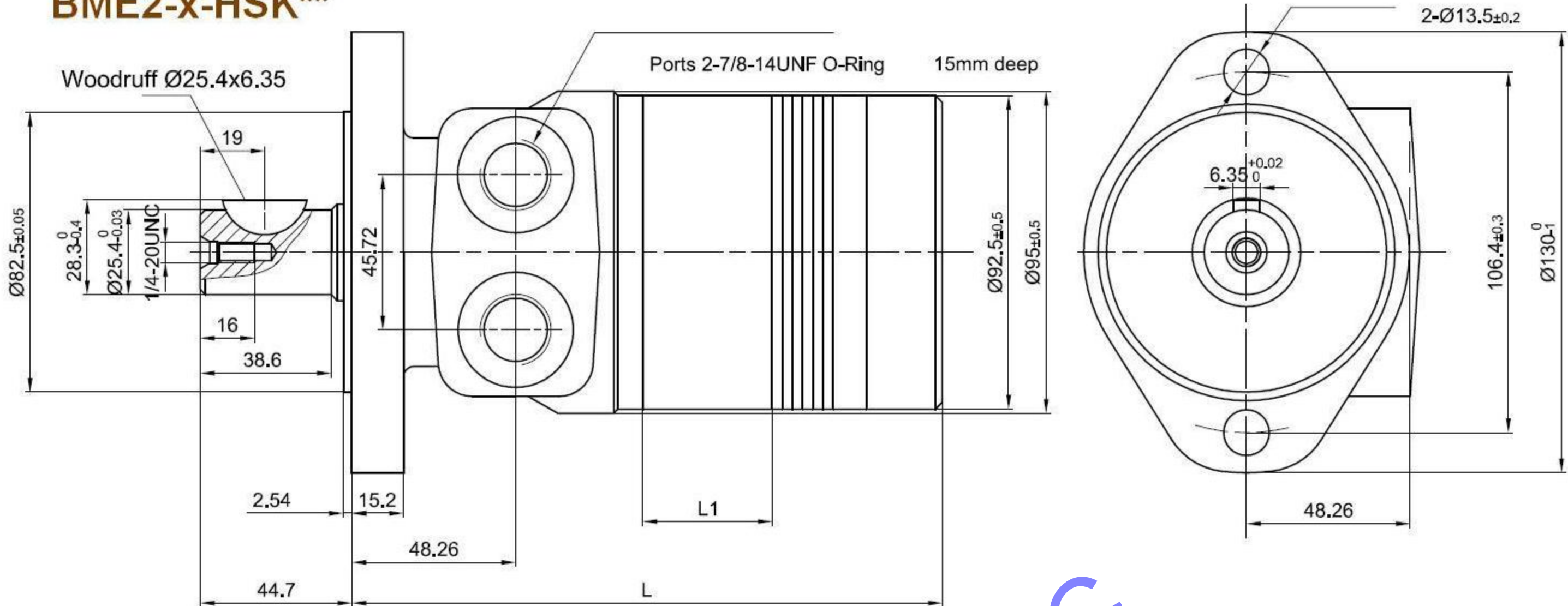
HPM Model	Packer Model	L mm	L1 mm	HPM Model	Packer Model	L mm	L1 mm
BME2-65-H4PA**	TE0065FP26**	149	13	BME2-230-H4PA**	TE00230FP26**	180	44
BME2-80-H4PA**	TE0080FP26**	152	16	BME2-250-H4PA**	TE00260FP26**	186	50
BME2-100-H4PA**	TE00100FP26**	156	20	BME2-295-H4PA**	TE00295FP26**	192	56
BME2-125-H4PA**	TE00130FP26**	161	25	BME2-315-H4PA**	TE00330FP26**	198	62
BME2-160-H4PA**	TE00165FP26**	167	30.5	BME2-375-H4PA**	TE00365FP26**	210	74
BME2-200-H4PA**	TE00195FP26**	174	38.1				

BME2 Series hydraulic orbit motor



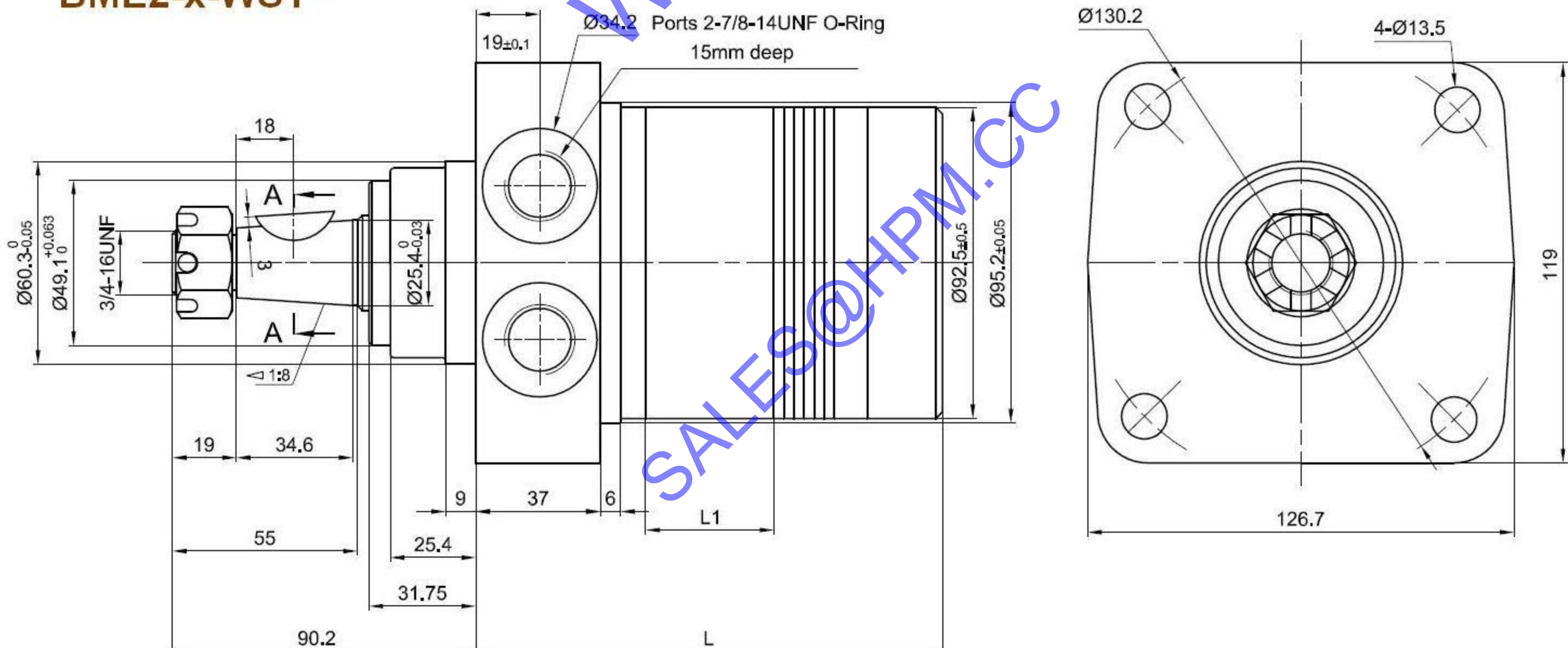
Popular model drawing

BME2-x-HSK**



HPM Model	Packer Model	L mm	L1 mm	HPM Model	Packer Model	L mm	L1 mm
BME2-65-HSK**	TE0065AS10**	149	13	BME2-230-HSK**	TE00230AS10**	180	44
BME2-80-HSK**	TE0080AS10**	152	16	BME2-250-HSK**	TE00260AS10**	186	50
BME2-100-HSK**	TE00100AS10**	156	20	BME2-295-HSK**	TE00295AS10**	192	56
BME2-125-HSK**	TE00130AS10**	161	25	BME2-315-HSK**	TE00330AS10**	198	62
BME2-160-HSK**	TE00165AS10**	167	30.5	BME2-375-HSK**	TE00365AS10**	210	74
BME2-200-HSK**	TE00195AS10**	174	38.1				

BME2-x-WST**



HPM Model	Packer Model	L mm	L1 mm	HPM Model	Packer Model	L mm	L1 mm
BME2-65-WST**	TE0065US25**	149	13	BME2-230-WST**	TE00230US25**	180	44
BME2-80-WST**	TE0080US25**	152	16	BME2-250-WST**	TE00260US25**	186	50
BME2-100-WST**	TE00100US25**	156	20	BME2-295-WST**	TE00295US25**	192	56
BME2-125-WST**	TE00130US25**	161	25	BME2-315-WST**	TE00330US25**	198	62
BME2-160-WST**	TE00165US25**	167	30.5	BME2-375-WST**	TE00365US25**	210	74
BME2-200-WST**	TE00195US25**	174	38.1				

BMJ Series hydraulic orbit motor



BMJ- Replace with Packer TJ SERIES

Parameters

Type		BMJ-65	BMJ-80	BMJ-100	BMJ-125	BMJ-160	BMJ-200	BMJ-230	BMJ-250	BMJ-295	BMJ-315	BMJ-375
Displacement		66.8	81.3	101.6	127	157.2	193.6	226	257	287.8	314.5	370
Max. speed (rpm)	cont.	667	543	439	350	283	229	247	216	196	178	152
	int.	842	689	553	441	355	289	328	287	254	235	199
Max. torque (N·m)	cont.	126	157	191	245	307	382	378	381	393	448	439
	int.	176	215	268	335	422	520	528	543	547	587	613
Max. output (kW)	cont.	8.3	8.8	7.9	8.9	8.9	9	9.9	9.3	8.7	8	7.6
	int.	13.9	14.4	13.5	14.1	15.6	15.7	17.9	16.5	15.6	14.3	14
Max. pressure drop (MPa)	cont.	14	14	14	14	14	14	12	11	10	10	9
	int.	19	19	19	19	19	19	16.5	15.5	14.5	13.5	12.5
	peak	20	20	20	20	20	20	18	18	17	16	16
Max. flow (L/min)	cont.	45	45	45	45	45	45	57	57	57	57	57
	int.	57	57	57	57	57	57	75	75	75	75	75

Selection

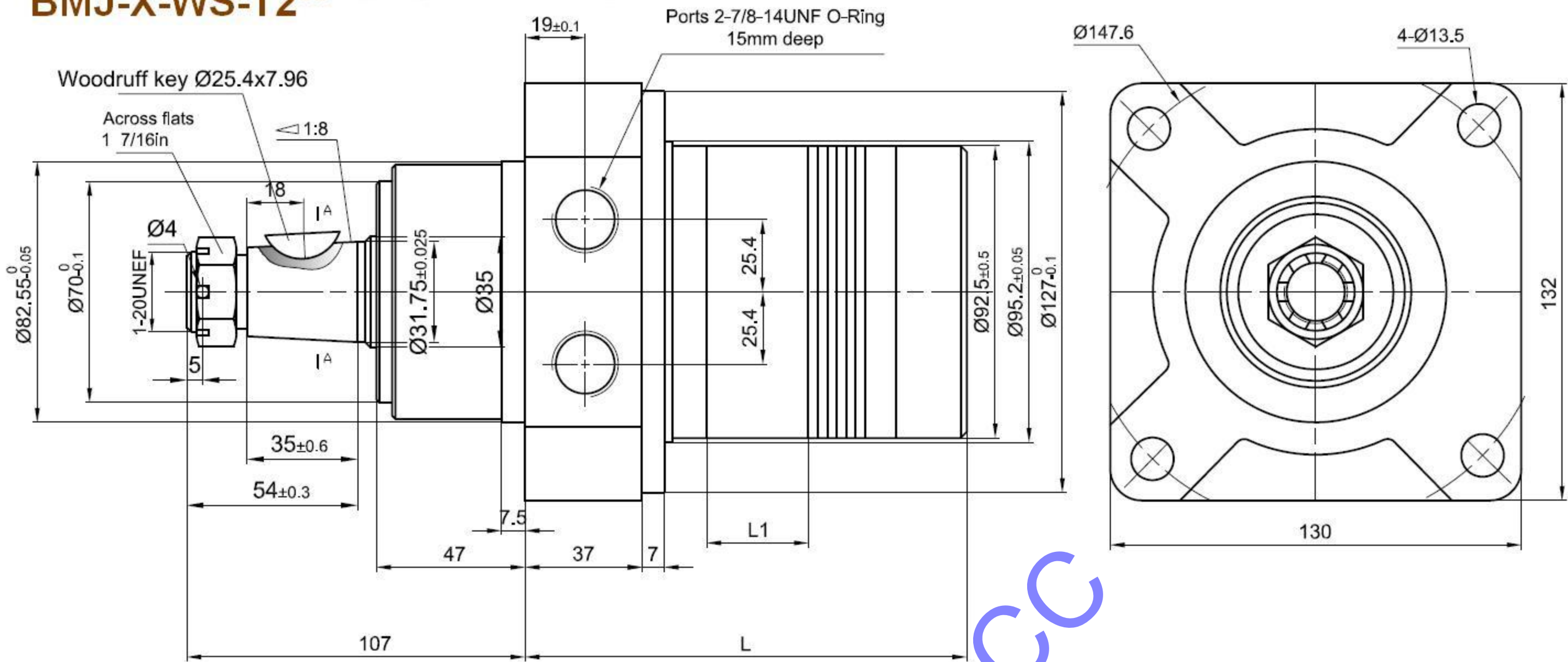
1	2	3	4	5	6
Series	Displacement	Flange&Ports	Output shaft	Rotation direction	Paint
BMJ	65	Code WS: 4-Ø13.5 Wheel-flange, pilot Ø82.55 ×7, port 7/8-14 O-ring	Code T1: Ø35 Cone shaft , Parallel key 6*6*20 Code T2: Ø31.75 Cone shaft , woodruff key Ø 25.4*7.96 Code T3: Ø31.75 Cone shaft , Parallel key 7.96*7.96*31.75 Code B: Ø32 Cylindrical shaft , Parallel key 10*8*45	Omit: Standard Code R: Opposite	Omit: Blue Code 00: No paint Code B: Black, Code S: Silver Grey
	80	Code WM: 4-Ø13.5 Rhomb-flange , pilot Ø82.5 ×7 , port M22*1.5			
	100	Code WM: 4-Ø13.5 Rhomb-flange , pilot Ø82.5 ×7 , port M22*1.5			
	125	Code WM: 4-Ø13.5 Rhomb-flange , pilot Ø82.5 ×7 , port M22*1.5			
	160	Code WM: 4-Ø13.5 Rhomb-flange , pilot Ø82.5 ×7 , port M22*1.5			
	200	Code WM: 4-Ø13.5 Rhomb-flange , pilot Ø82.5 ×7 , port M22*1.5			
	230	Code WD: 4-Ø13.5 Wheel- flange, pilot Ø82.55×7 , port G1/2			
	250				
	295				
	315				
375					

BMJ Series hydraulic orbit motor



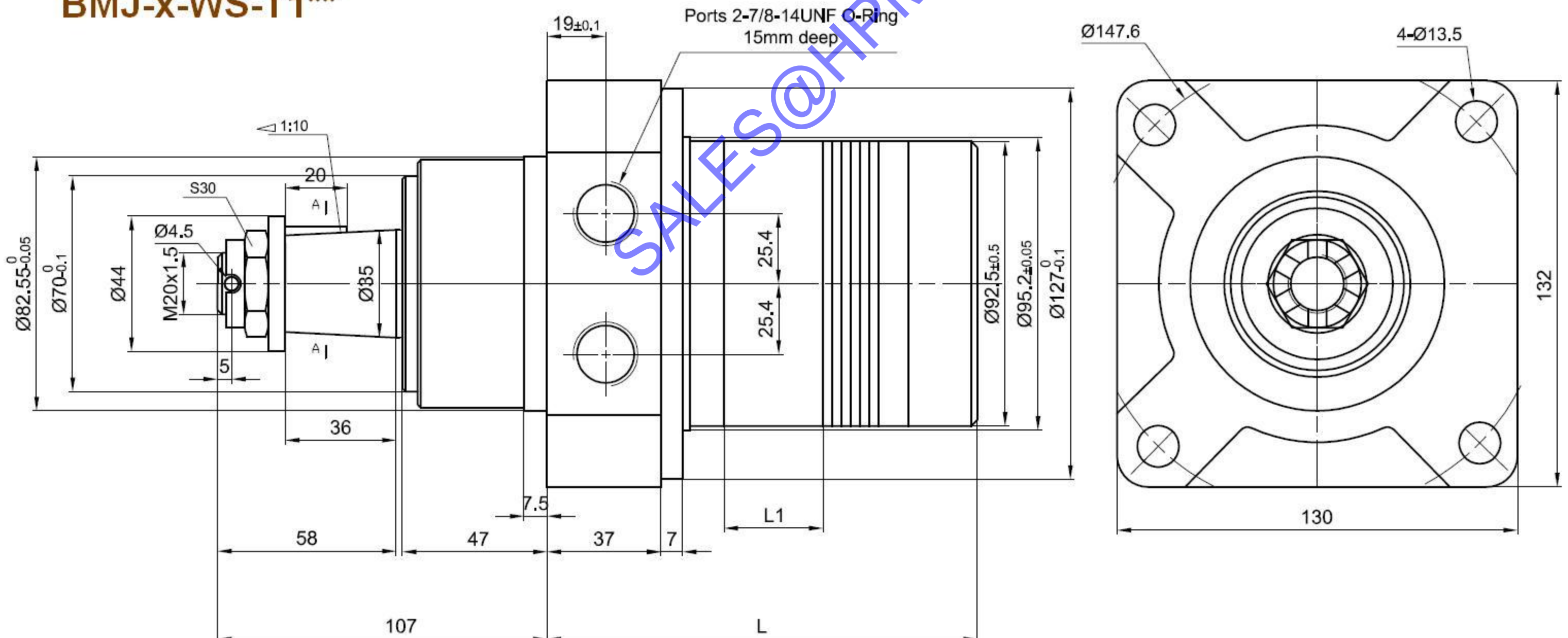
Popular model drawing

BMJ-X-WS-T2**



HPM Model	Packer model	L mm	L1 mm	HPM Model	Packer model	L mm	L1 mm
BMJ-65-WS-T2**	TJ0065US08**	115	13	BMJ-230-WS-T2**	TJ0230US08**	146	44
BMJ-80-WS-T2**	TJ0080US08**	118	16	BMJ-250-WS-T2**	TJ0260US08**	152	50
BMJ-100-WS-T2**	TJ0100US08**	122	20	BMJ-295-WS-T2**	TJ0295US08**	158	56
BMJ-125-WS-T2**	TJ0130US08**	127	25	BMJ-315-WS-T2**	TJ0330US08**	164	62
BMJ-160-WS-T2**	TJ0165US08**	132.5	30.5	BMJ-375-WS-T2**	TJ0365US08**	176	74
BMJ-200-WS-T2**	TJ0195US08**	140	38.1				

BMJ-x-WS-T1**



BMER Series hydraulic orbit motor



**BMER - Replace with WHITE RE 500/501 SERIES
Packer TG SERIES**

Parameters

Type		BMER-125	BMER-160	BMER-200	BMER-230	BMER-250	BMER-300	BMER-350	BMER-375	BMER-475	BMER-540	BMER-750
Displacement		118	156	330	228	257	296	345	371	462	140	745
Max. speed (rpm)	cont.	360	375	425	290	290	250	220	200	160	170	100
	int.	490	470	530	365	350	315	270	240	195	980	120
Max. torque (N•m)	cont.	325	450	530	625	700	810	905	990	1085	980	1050
	int.	380	525	600	710	790	930	1035	1140	1180	1240	1180
	peak	450	590	750	870	980	1120	1285	1360	1260	1380	1370
Max. output (kW)	cont.	12	15	15.5	16	17.5	18	17.5	16.5	14.5	11.5	8
	int.	14	17.5	18	19	20	21	20	19	16.5	15	10
Max. pressure drop (MPa)	cont.	20.5	20.5	20.5	20.5	20.5	20.5	20.5	20.5	17.5	14	10.5
	int.	24	24	24	24	24	24	24	24	19	17.5	12
	peak	27.6	27.6	27.6	27.6	27.6	27.6	27.6	27.6	20.5	20.5	14
Max. flow (L/min)	cont.	45	60	70	70	75	80	80	75	75	75	75
	int.	60	75	85	85	90	95	95	90	90	90	90

Selection

1	2	3	4
Series	Displacement	Flange&Ports	Output shaft
BMER	125	Code MS: 4- Ø13.5 Magneto Mount , pilot Ø82.55×2.8 port 7/8-14 O-ring Code MP: 4-Ø13.5 Magneto Mount, pilot Ø82.55×2.8 port 1/2 -14NPTF Code MD: 4-Ø13.5 Magneto Mount, pilot Ø82.55×2.8 port G1/2 Code FS: 6-Ø13.5 Magneto Mount, , pilot Ø82.5×2.8 port 7/8-14 O-ring Code FD: 6-Ø13.5 Magneto Mount, , pilot Ø82.55×2.8 port G1/2 Code FH: 6-Ø13.5 Magneto Mount, , pilot Ø82.55×2.8 port G1/2 Manifold ports 1/2 Code WS: 4-Ø13.5 Wheel Mount , pilot Ø82.55×5 port 7/8-14 O-ring Code WP: 4-Ø13.5 Wheel Mount , pilot Ø82.55×5 port 1/2 -14NPTF Code WD: 4-Ø13.5 Wheel Mount,Pilot Ø82.55×5 port G1/2	Code AW: Ø25 , Parallel key 8×7×32 Code B1: Ø32 , Parallel key 10×8×45 Code G2: Ø31.75,Parallel key 7.95×7.95×31.75 Code T4: Ø31.75 Cone shaft, Splined key 7.96×7.96×25.4 Code RW: Ø25.4,Parallel key 6.35×6.35×31.75 Code SW: Ø25.4,Splined key SAE 6B Code FD1: Ø31.75 Shaft , Splined key 14-DP12/24
	160		
	200		
	230		
	250		
	300		
	350		
	375		
	475		
	540		
745			

5	6	7
Rotation direction	Paint	Unusually function
Omit: Standard Code R: Opposite	Omit: Blue Code 00: No paint Code B: Black Code S: Silver Grey	Omit: Standard Code 0: No case drain Code N: Big radial force Code F: Free running Code LS: Low speed

Popular Models

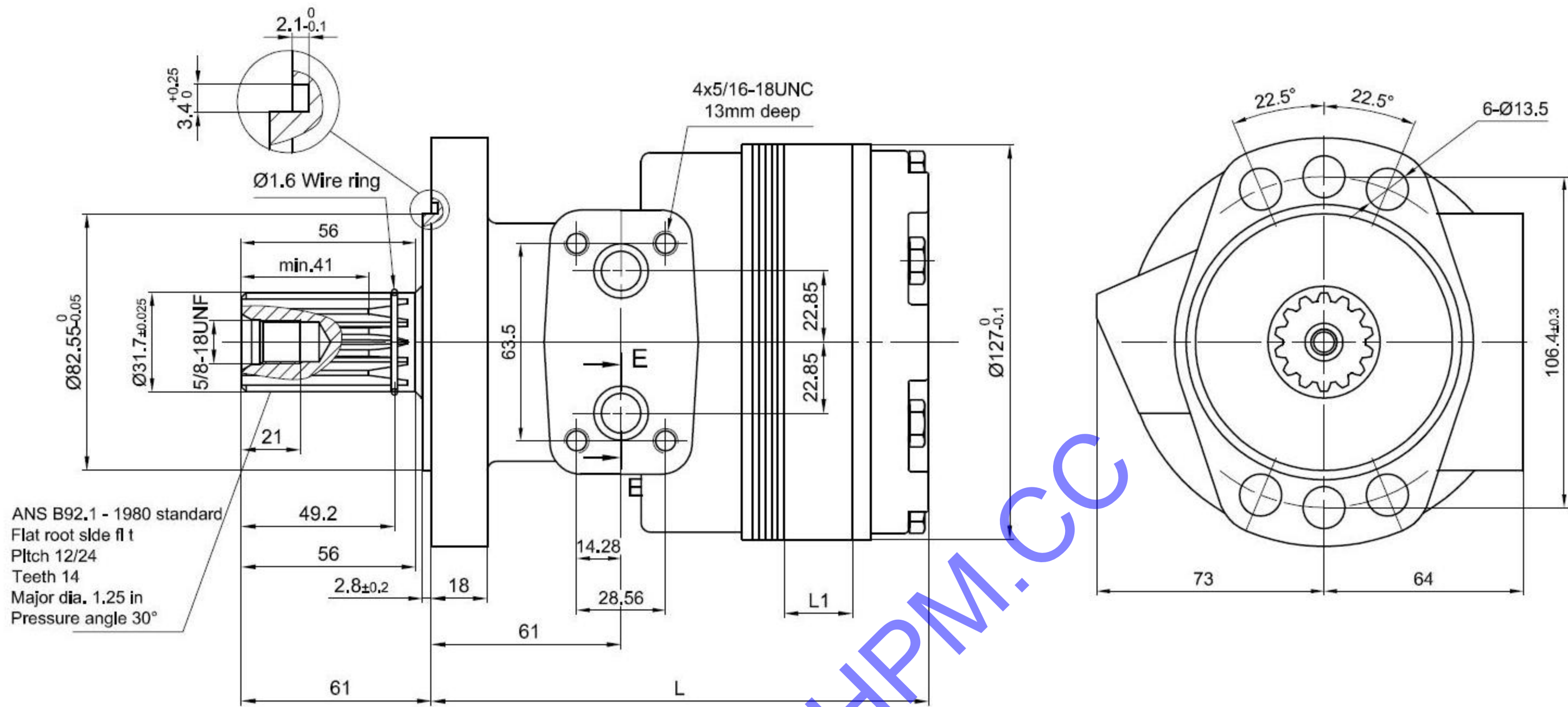
HPM Model	WHITE RE Model	Remarks
BMER-1-x-MS-B1	500(501)-x-A31-21	OEM feasible
BMER-1-x-MD-AW	500(501)-x-A38-12	
BMER-1-x-FS-G2	500(501)-x-A51-20	
BMER-1-x-FD-SW	500(501)-x-A58-02	
BMER-1-x-WS-T4	500(501)-x-W31-22	
BMER-1-x-WD-FD1	500(501)-x-W38-23	

BMER Series hydraulic orbit motor

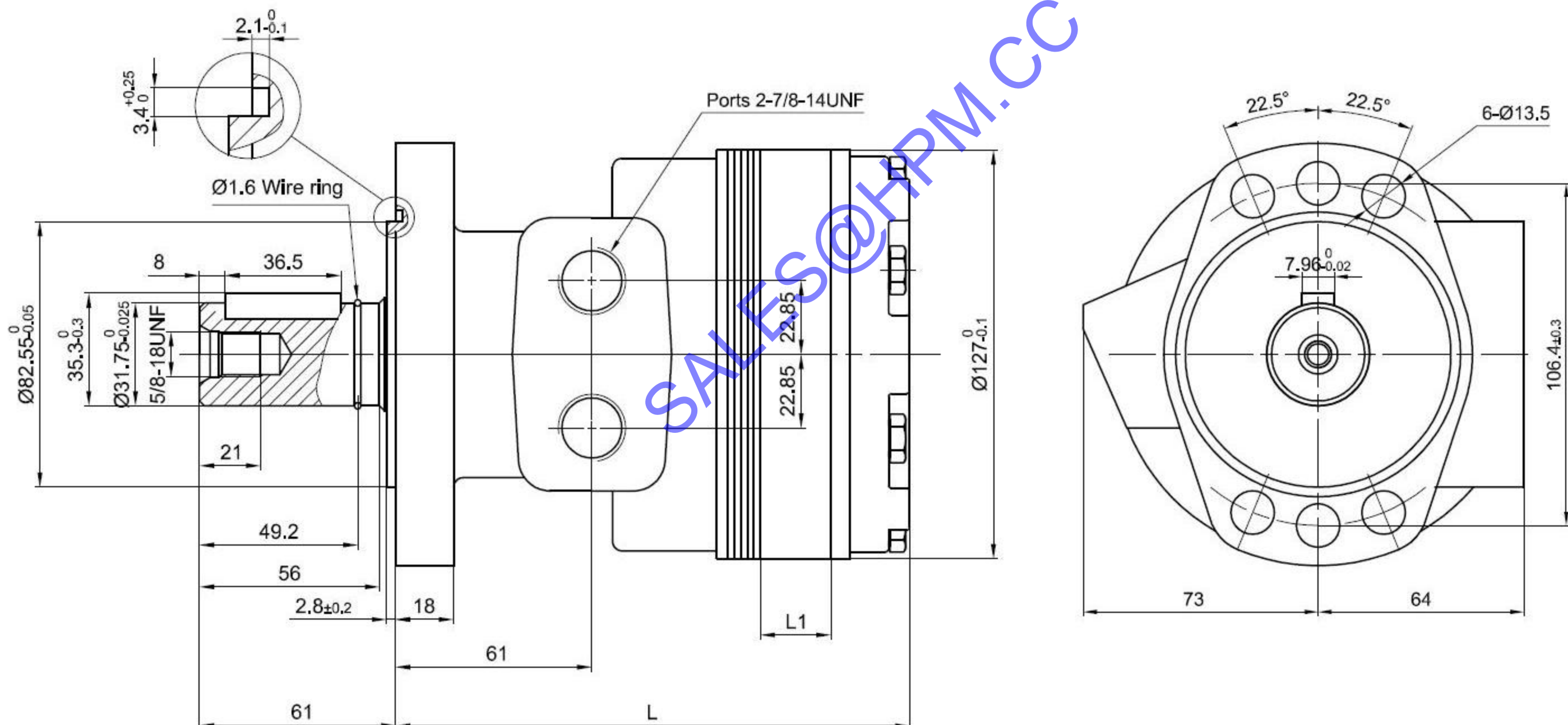


Popular model drawing

BMER-1-x-FH-FD1



BMER-1-x-FS-G2

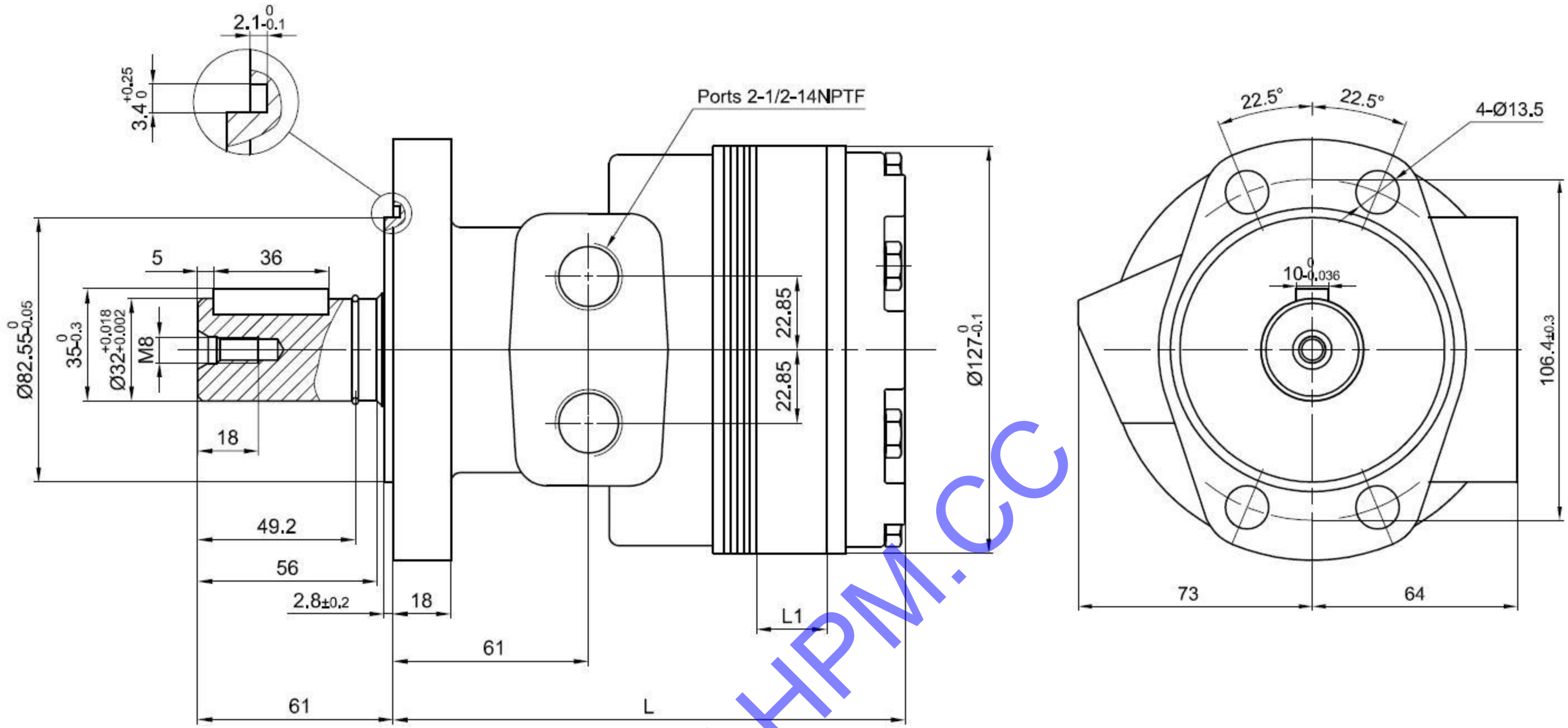


BMER Series hydraulic orbit motor

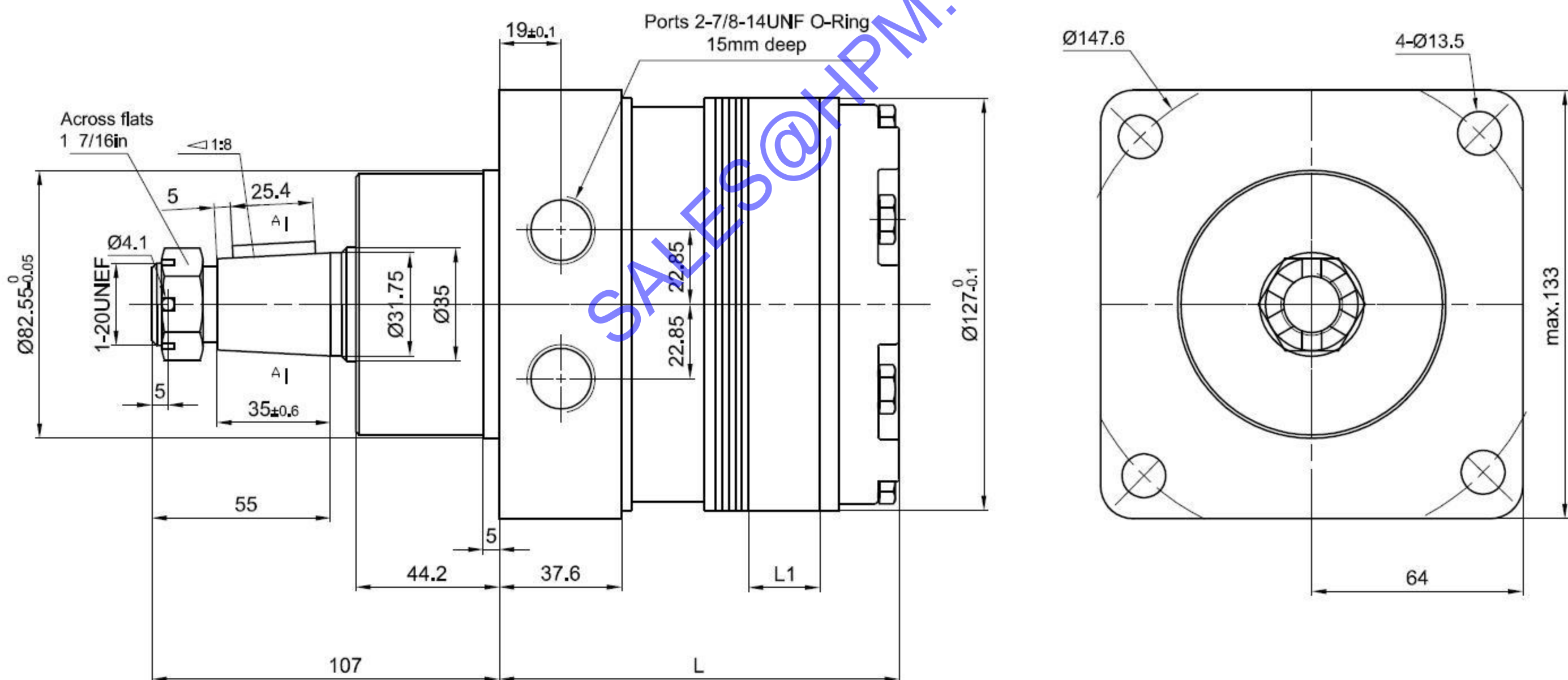


Popular model drawing

BMER-1-x-MP-B1



BMER-1-x-WS-T4

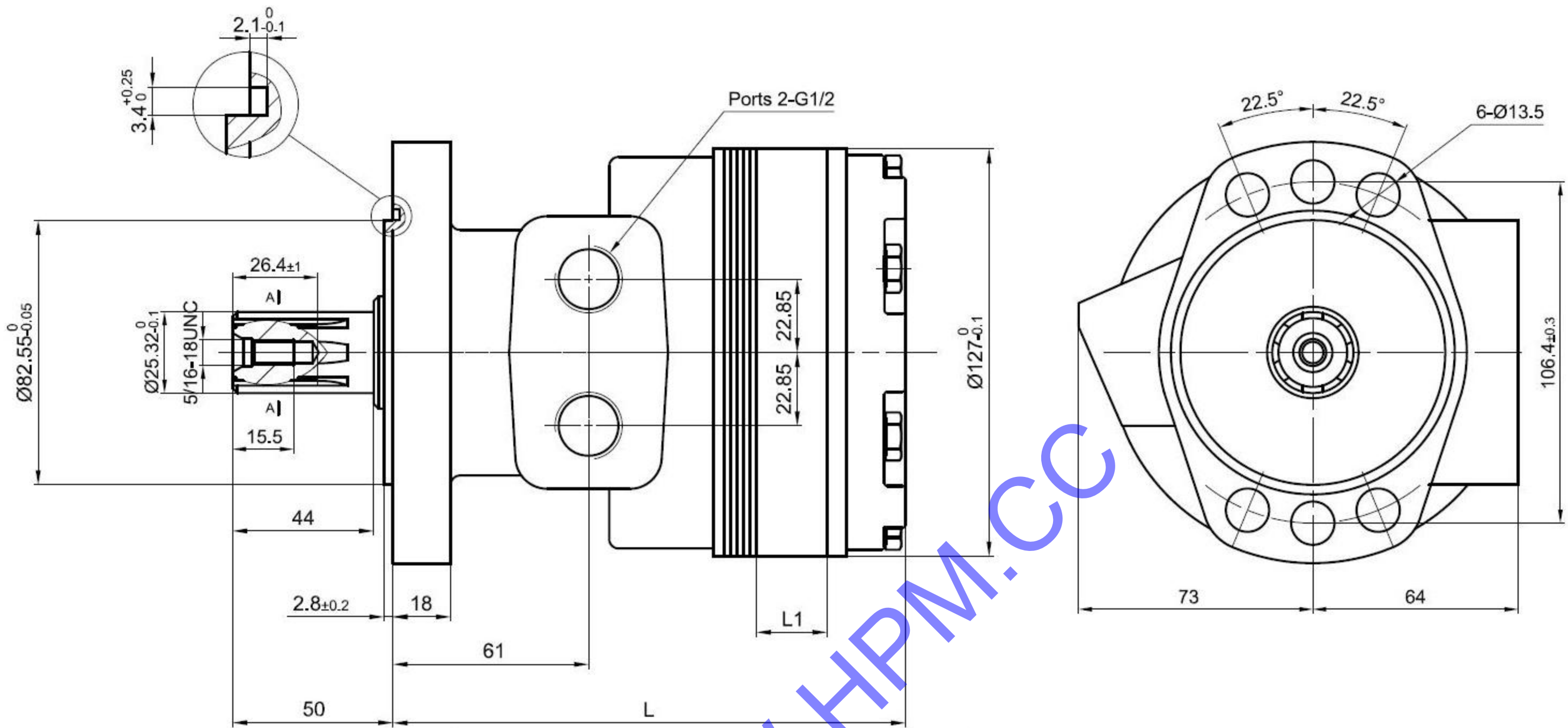


BMER Series hydraulic orbit motor

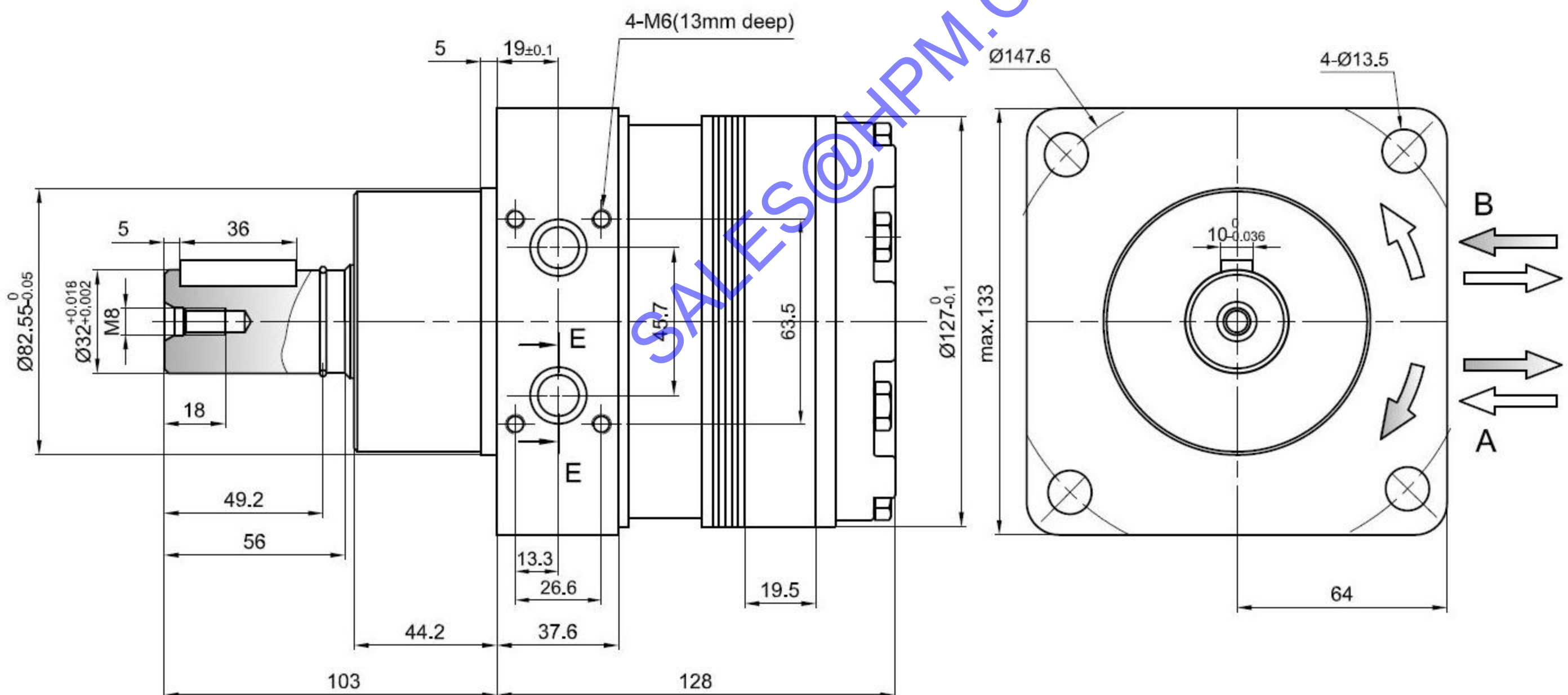


Popular model drawing

BMER-1-x-FD-SW



BMER-1-x-WK-B1

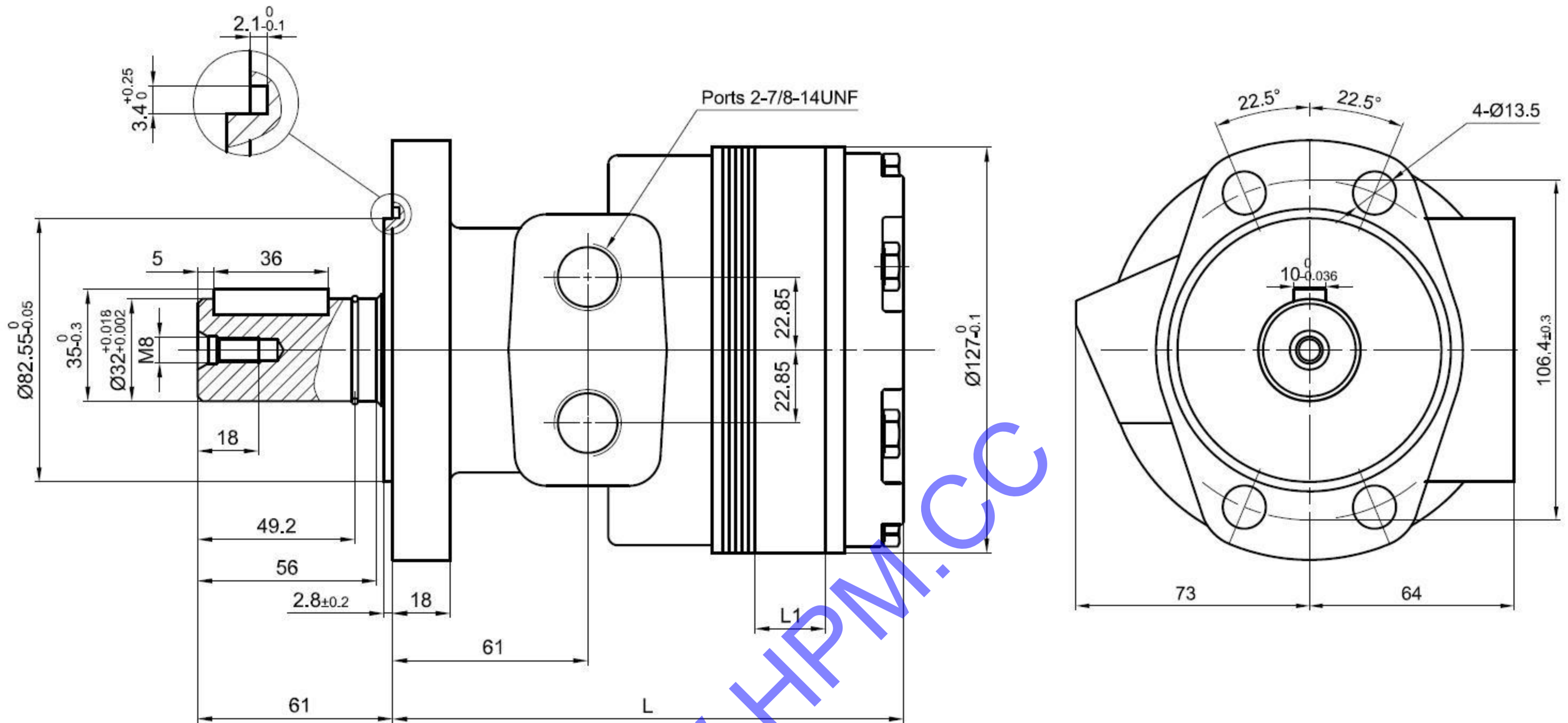


BMER Series hydraulic orbit motor

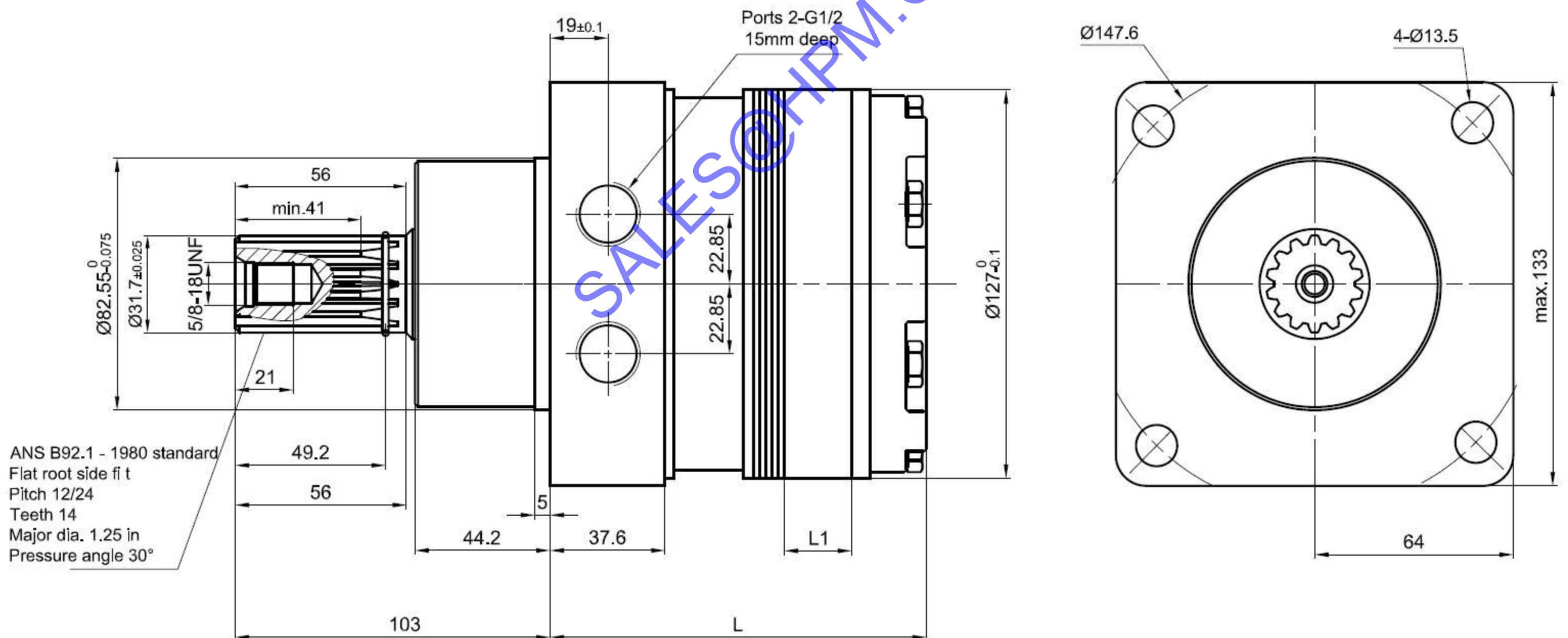


Popular model drawing

BMER-1-x-MS-B1



BMER-1-x-WD-FD1



BMK6 Series hydraulic orbit motor



BMK6- Replace with Eaton 6000 SERIES

Parameters

Type		BMK6-200	BMK6-250	BMK6-315	BMK6-400	BMK6-500	BMK6-630	BMK6-800	BMK6-1000
Displacement		195.6	246.1	311.6	391.3	490.8	623	802.4	981.6
Max. speed (rpm)	cont.	765	610	480	382	304	240	186	152
	int.	865	830	690	570	455	360	280	230
Max. torque (N·m)	cont.	565	710	920	1160	1445	1480	1580	1675
	int.	840	1080	1325	1625	1880	1890	1880	1860
Max. pressure drop (MPa)	cont.	20	20	20	20	20	17.5	14	14
	int.	30	30	30	30	27.5	22.5	15.5	14
	peak	30	30	30	30	30	24	17.5	17
Max. flow (L/min)	cont.	150	150	150	150	150	150	150	150
	int.	170	205	225	225	225	225	225	225
Weight	(Kg)	26.3	26.8	27.3	28	28.8	29.6	30.5	32

Selection

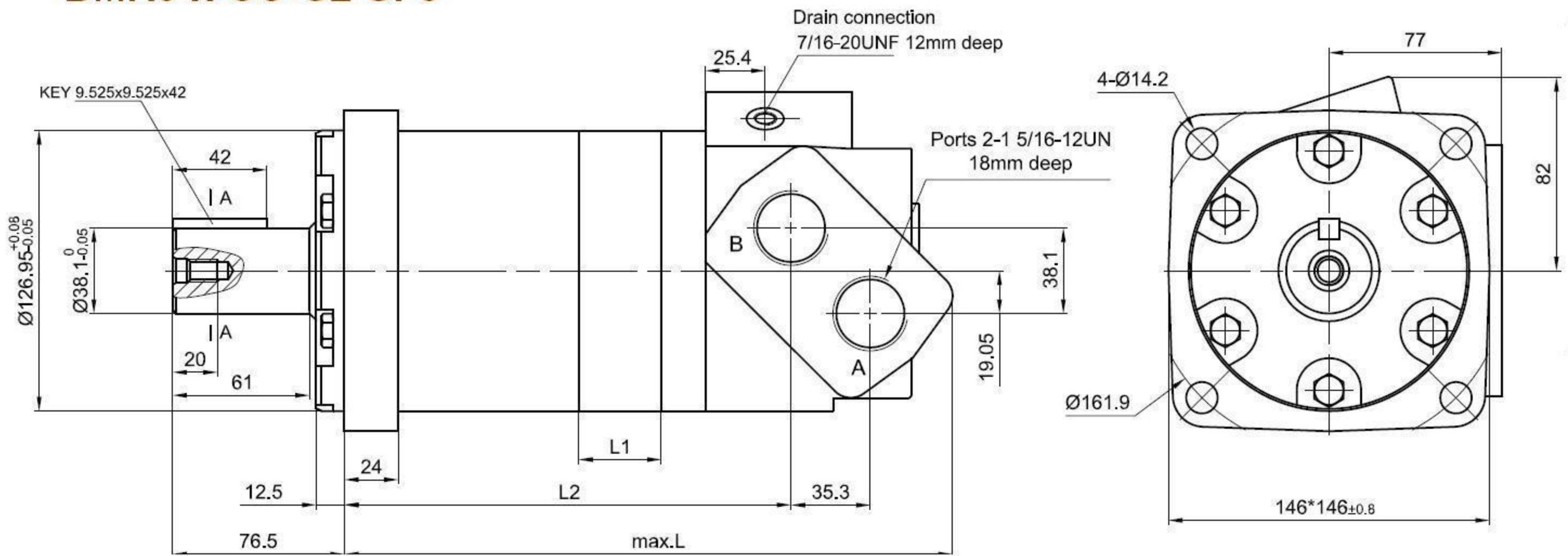
1	2	3	4
Series	Displacement	Flange&Ports	Output shaft
BMK6	200	Code CC: 4-Ø14.2 Square-flange Ø 161.9, Pilot Ø127*12.5 (Eaton AB) Code CC1: 4-Ø14.2 Square-flange Ø 161.9, Pilot Ø125*12.5 Code W: 4-Ø14.2 Wheel flange Ø170, Pilot Ø 184.12 (Eaton AC) Code J6: 4-Ø18 Square-flange Ø200, Pilot Ø 160*8 (Eaton AH)	Code G2: Ø38.1, Parallel key 9.52×9.52×57.15 Code FE: Ø38.1, Splined shaft 17-DP 12/24 Code Y1: Ø40, Parallel key 12×8×45 Code T1: Ø45 Tapered shaft, Parallel key 31.75 Code H: Ø42 Splined long shaft 8-42×36×7 Code H1: Ø42 Splined Short shaft 8-42×36×7 Code P: Ø40 Splined shaft 6-40×35×10 Code P1: Ø35 Splined shaft 6-35×29×10 Code A: Ø50, Parallel key 14×9×7
	250		
	315		
	400		
	500		
	630		
	800		
	1000		
5	6	7	8
Port and drain port	Rotation direction	Paint	Unusually function
Code SF: 3/4" Manifold mount 8×3/8-16UNC,7/16-20UNF Code SF0: Ø16 Manifold mount 4×M12,M14×1.5 Code SF5: 1-5/16-12UN,7/16-20UNF Code F6: M33×2,M14×1.5 Code SF7: G1,G1/4 Code SF8: G3/4,G1/4	Omit: Standard Code R: Opposite	Omit: Blue Code 00: No paint Code B: Black Code S: Silver Grey	Omit: Standard

BMK6 Series hydraulic orbit motor

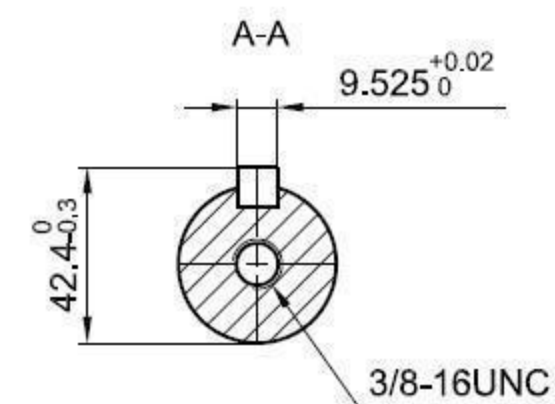


Popular model drawing

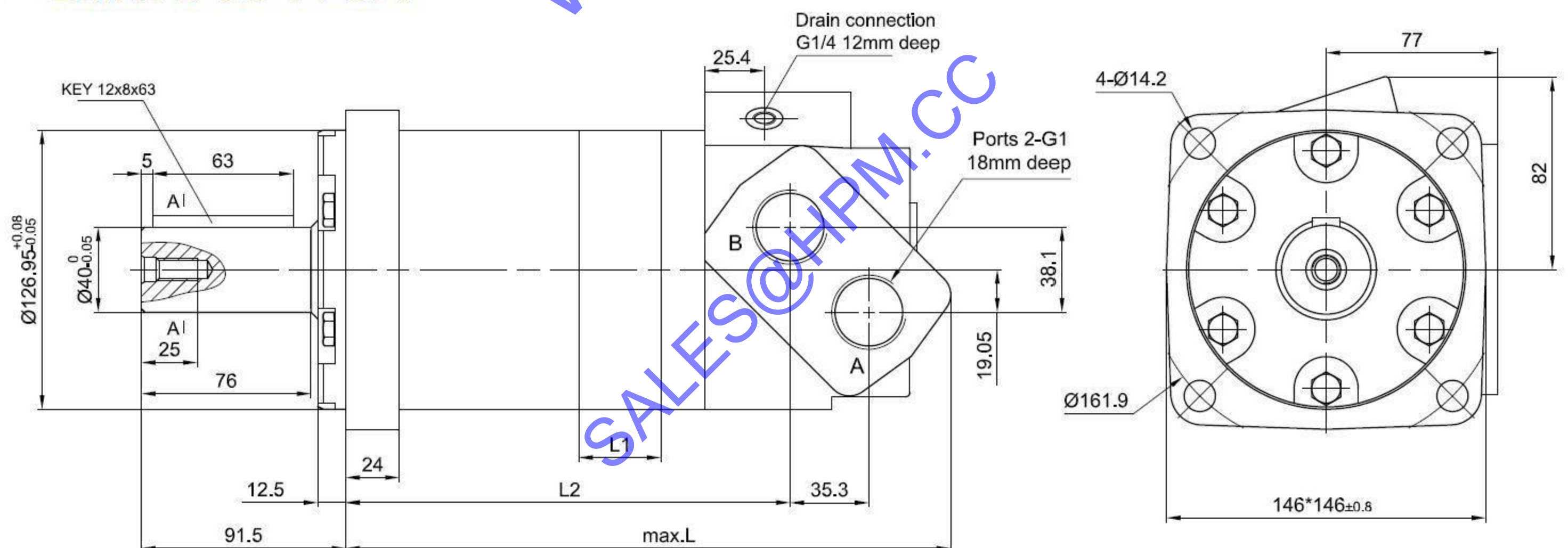
BMK6-x-CC-G2-SF5



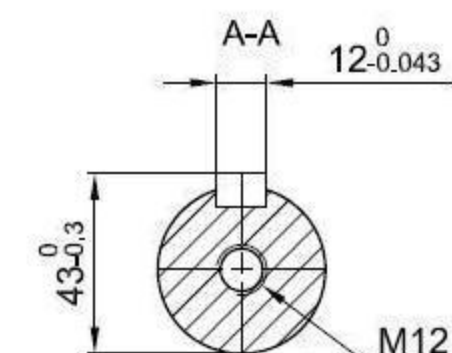
HPM Model	EATON Model	L mm	L1 mm	L2 mm
BMK6-200-CC-G2-SF5	112-1064(M06 120AB01AA***)	265	21.7	187.5
BMK6-250-CC-G2-SF5	112-1065(M06 150AB01AA***)	271	27.3	193.1
BMK6-315-CC-G2-SF5	112-1066(M06 190AB01AA***)	278	34.4	200.3
BMK6-400-CC-G2-SF5	112-1067(M06 239AB01AA***)	287	43.4	209.2
BMK6-500-CC-G2-SF5	112-1068(M06 300AB01AA***)	298	54.4	220.2
BMK6-630-CC-G2-SF5	112-1107(M06 381AB01AA***)	313	69.1	234.9
BMK6-800-CC-G2-SF5		333	89	254.8
BMK6-1000-CC-G2-SF5	112-1069(M06 600AB01AA***)	353	108.9	274.7



BMK6-x-CC-Y1-SF7



HPM Model	EATON Model	L mm	L1 mm	L2 mm
BMK6-200-CC-Y1-SF7	112-1094(M06 120AB04AC***)	265	21.7	187.5
BMK6-250-CC-Y1-SF7	112-1095(M06 150AB04AC***)	271	27.3	193.1
BMK6-315-CC-Y1-SF7	112-1096(M06 190AB04AC***)	278	34.4	200.3
BMK6-400-CC-Y1-SF7	112-1097(M06 239AB04AC***)	287	43.4	209.2
BMK6-500-CC-Y1-SF7	112-1098(M06 300AB04AC***)	298	54.4	220.2
BMK6-630-CC-Y1-SF7		313	69.1	234.9
BMK6-800-CC-Y1-SF7		333	89	254.8
BMK6-1000-CC-Y1-SF7	112-1099(M06 600AB04AC***)	353	108.9	274.7

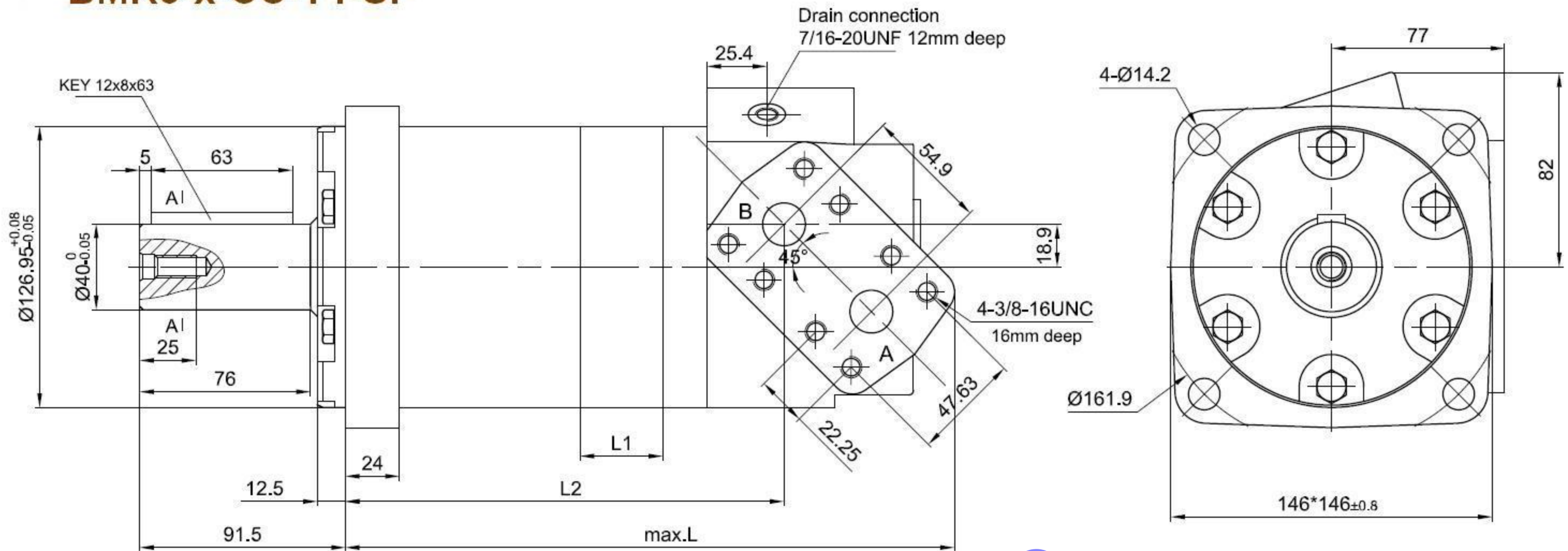


BMK6 Series hydraulic orbit motor

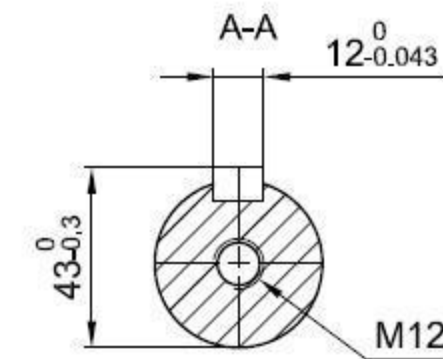


Popular model drawing

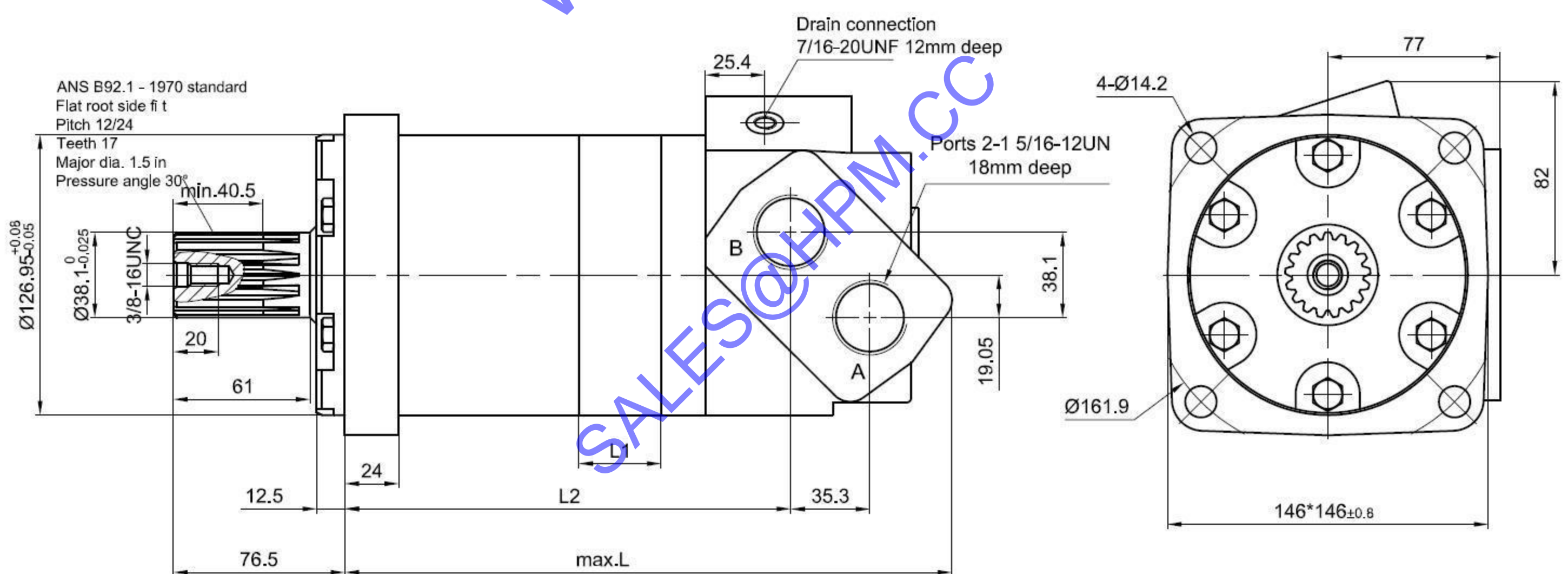
BMK6-x-CC-Y1-SF



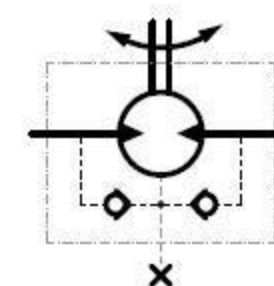
HPM Model	EATON Model	L mm	L1 mm	L2 mm
BMK6-200-CC-Y1-SF	M06 120AB04AB*****	265	21.7	187.5
BMK6-250-CC-Y1-SF	M06 150AB04AB*****	271	27.3	193.1
BMK6-315-CC-Y1-SF	M06 190AB04AB*****	278	34.4	200.3
BMK6-400-CC-Y1-SF	M06 239AB04AB*****	287	43.4	209.2
BMK6-500-CC-Y1-SF	M06 300AB04AB*****	298	54.4	220.2
BMK6-630-CC-Y1-SF	M06 381AB04AB*****	313	69.1	234.9
BMK6-800-CC-Y1-SF	M06 490AB04AB*****	333	89	254.8
BMK6-1000-CC-Y1-SF	M06 600AB04AB*****	353	108.9	274.7



BMK6-x-CC-FE-SF5



HPM Model	EATON Model	L mm	L1 mm	L2 mm
BMK6-200-CC-FE-SF5	112-1058 (M06 120AB03AA***)	265	21.7	187.5
BMK6-250-CC-FE-SF5	112-1059 (M06 150AB03AA***)	271	27.3	193.1
BMK6-315-CC-FE-SF5	112-1060 (M06 190AB03AA***)	278	34.4	200.3
BMK6-400-CC-FE-SF5	112-1061 (M06 239AB03AA***)	287	43.4	209.2
BMK6-500-CC-FE-SF5	112-1062 (M06 300AB03AA***)	298	54.4	220.2
BMK6-630-CC-FE-SF5	112-1109 (M06 381AB03AA***)	313	69.1	234.9
BMK6-800-CC-FE-SF5		333	89	254.8
BMK6-1000-CC-FE-SF5	112-1063 (M06600AB03AA***)	353	108.9	274.7

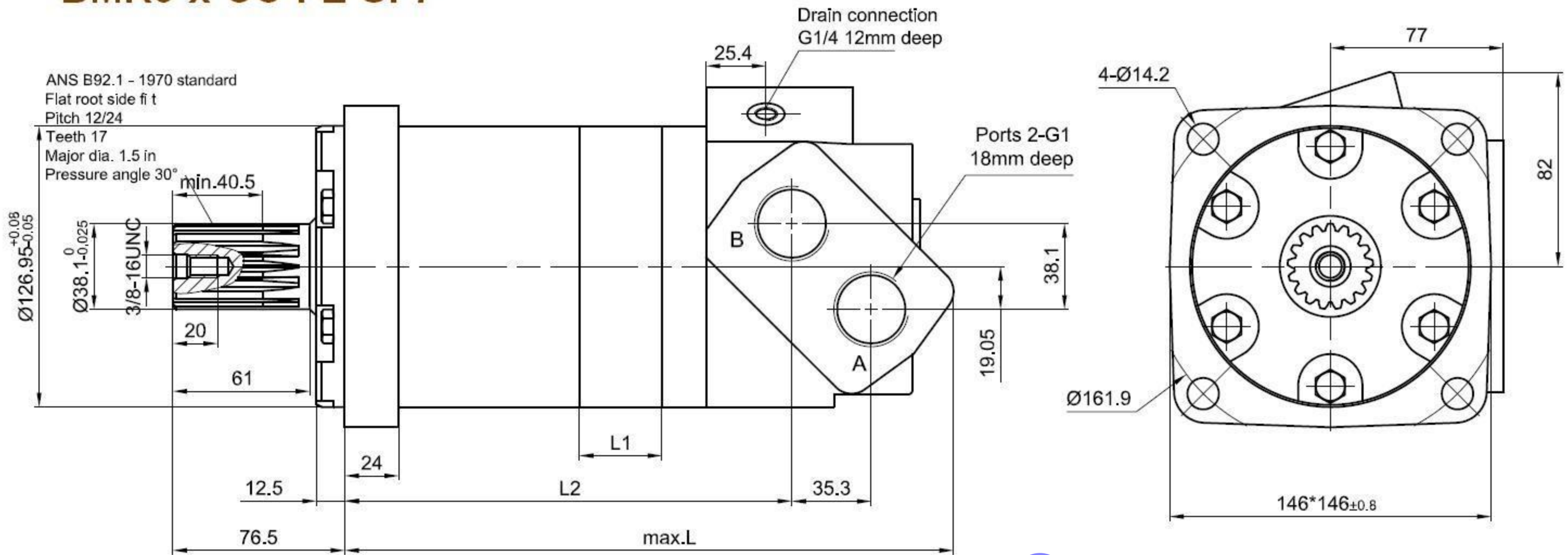


BMK6 Series hydraulic orbit motor

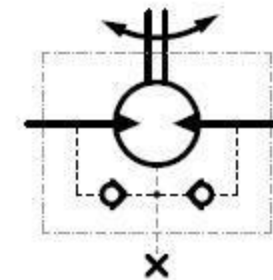


Popular model drawing

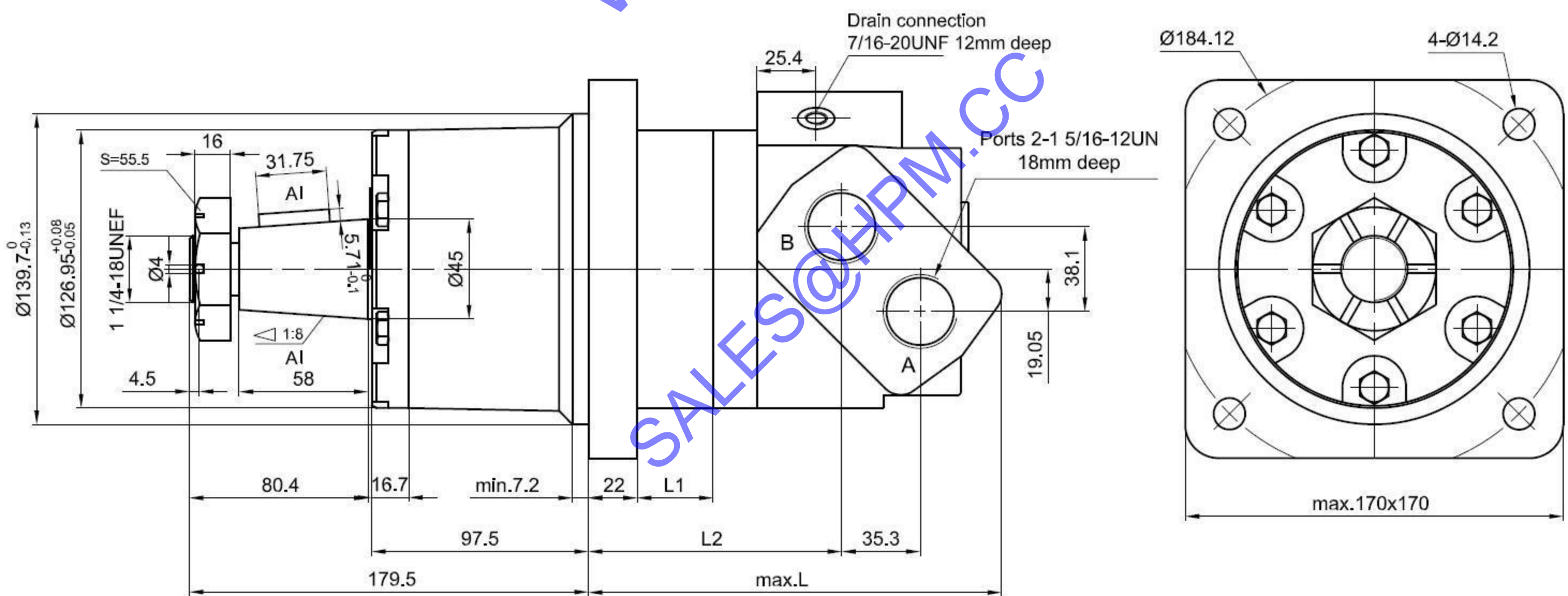
BMK6-x-CC-FE-SF7



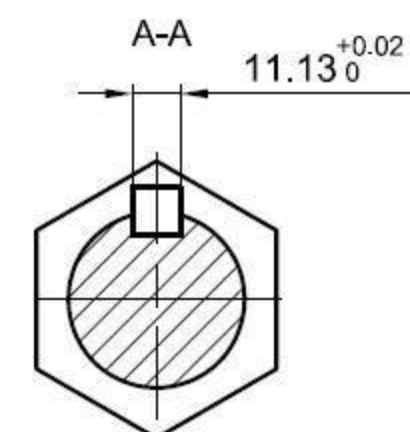
HPM Model	EATON Model	L mm	L1 mm	L2 mm
BMK6-200-CC-FE-SF7	112-1088 (M06 120AB03AC***)	265	21.7	187.5
BMK6-250-CC-FE-SF7	112-1089 (M06 150AB03AC***)	271	27.3	193.1
BMK6-315-CC-FE-SF7	112-1090 (M06 190AB03AC***)	278	34.4	200.3
BMK6-400-CC-FE-SF7	112-1091 (M06 239AB03AC***)	287	43.4	209.2
BMK6-500-CC-FE-SF7	112-1092 (M06 300AB03AC***)	298	54.4	220.2
BMK6-630-CC-FE-SF7		313	69.1	234.9
BMK6-800-CC-FE-SF7		333	89	254.8
BMK6-1000-CC-FE-SF7	112-1093 (M06 600AB03AC***)	353	108.9	274.7



BMK6-x-W-T1-SF5



HPM Model	EATON Model	L mm	L1 mm	L2 mm
BMK6-200-W-T1-SF5	113-1070(M06 120AC02AA***)	179	21.7	102.5
BMK6-250-W-T1-SF5	113-1071(M06 150AC02AA***)	185	27.3	108
BMK6-315-W-T1-SF5	113-1072(M06 190AC02AA***)	192	34.4	115.5
BMK6-400-W-T1-SF5	113-1073(M06 239AC02AA***)	201	43.4	124.5
BMK6-500-W-T1-SF5	113-1074(M06 300AC02AA***)	212	54.4	135.5
BMK6-630-W-T1-SF5	113-1093(M06 381AC02AA***)	226.7	69.1	150.2
BMK6-800-W-T1-SF5		246.5	89	170
BMK6-1000-W-T1-SF5	113-1075(M06 600AC02AA***)	266.5	108.9	190

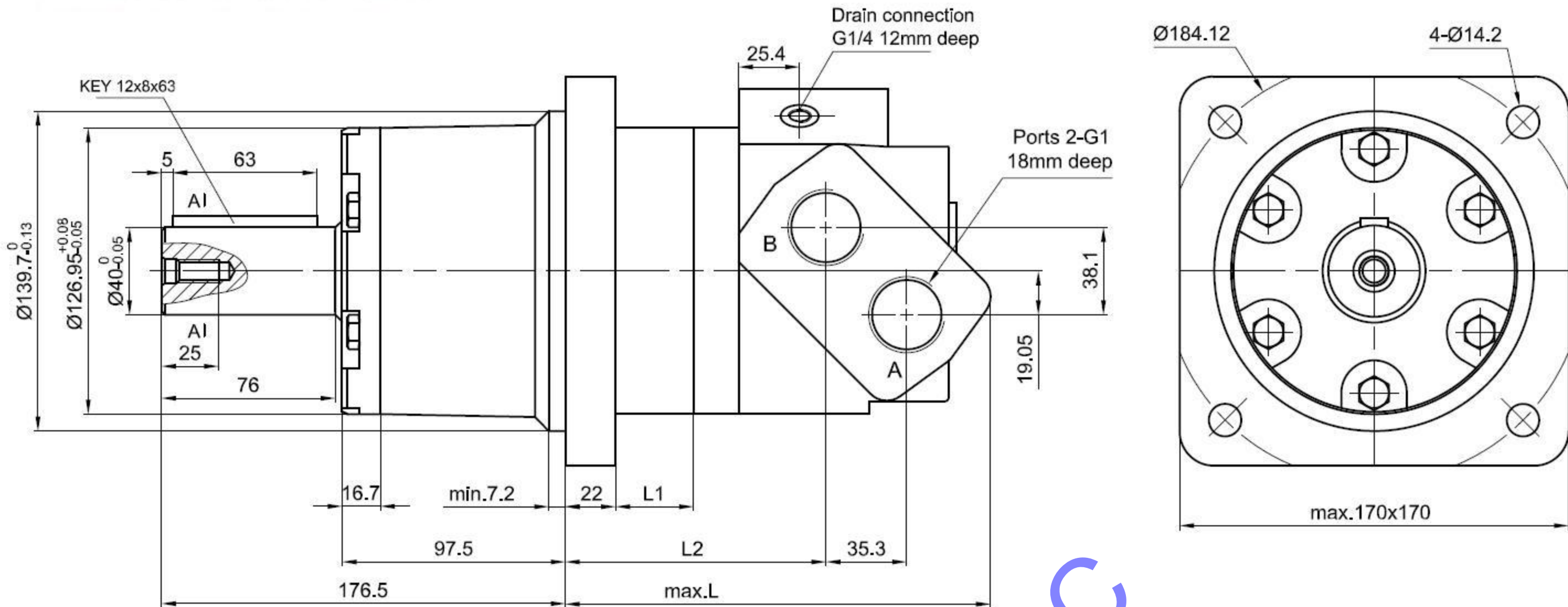


BMK6 Series hydraulic orbit motor

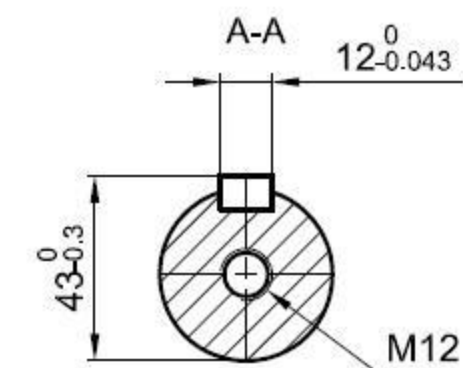


Popular model drawing

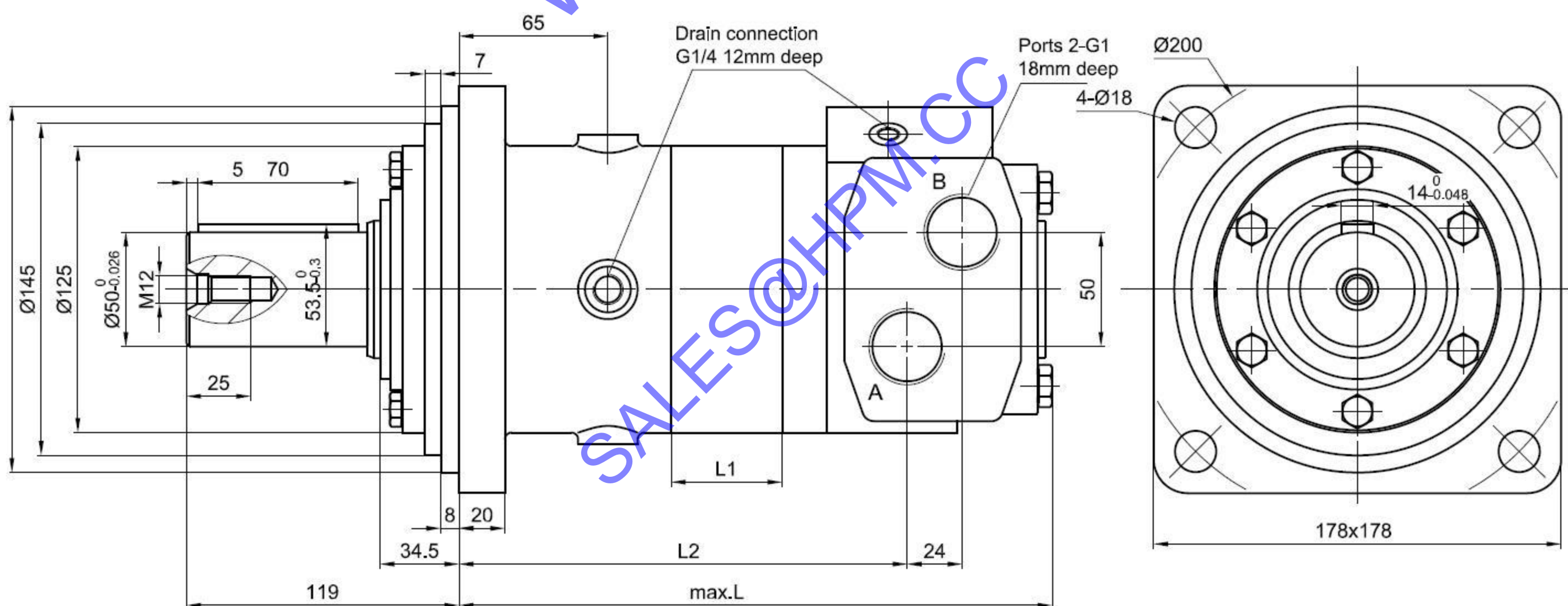
BMK6-x-W-Y1-SF7



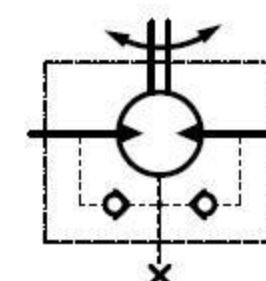
HPM Model	EATON Model	L mm	L1 mm	L2 mm
BMK6-200-W-Y1-SF7	113-1082(M06 120AC04AC***)	179	21.7	102.5
BMK6-250-W-Y1-SF7	113-1083(M06 150AC04AC***)	185	27.3	108
BMK6-315-W-Y1-SF7	113-1084(M06 190AC04AC***)	192	34.4	115.5
BMK6-400-W-Y1-SF7	113-1085(M06 239AC04AC***)	201	43.4	124.5
BMK6-500-W-Y1-SF7	113-1086(M06 300AC04AC***)	212	54.4	135.5
BMK6-630-W-Y1-SF7	113-1100(M06 381AC04AC***)	226.7	69.1	150.2
BMK6-800-W-Y1-SF7		246.5	89	170
BMK6-1000-W-Y1-SF7	113-1087(M06 600AC04AC***)	266.5	108.9	190



BMK6-x-J6-A-SF7



HPM Model	EATON Model	L mm	L1 mm	L2 mm
BMK6-200-J6-A-SF7		265	21.7	187.5
BMK6-250-J6-A-SF7		271	27.3	193.1
BMK6-315-J6-A-SF7	112-1217(M06190AH12AC***)	278	34.4	200.3
BMK6-400-J6-A-SF7	112-1218(M06 239AH12AC***)	287	43.4	209.2
BMK6-500-J6-A-SF7	112-1215(M06 300AH12AC***)	298	54.4	220.2
BMK6-630-J6-A-SF7	112-1216(M06 381AH12AC***)	313	69.1	234.9
BMK6-800-J6-A-SF7	112-1219(M06 490AH12AC***)	333	89	254.8
BMK6-1000-J6-A-SF7	112-1220(M06 600AH12AC***)	353	108.9	274.7



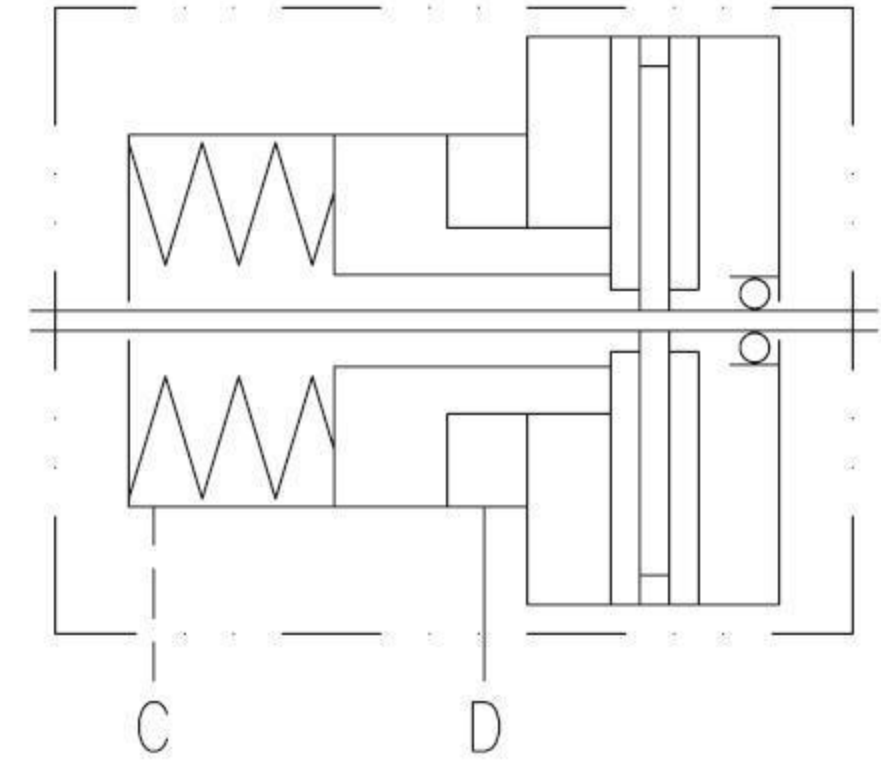
BK2 Series Hydraulic Brake



Replace with White SB(930) Series, M+S ELB Series

Parameters

Item	BK2-1	BK2-2
Min. static Torque [Nm]	200~230	410~450
Min. Opening Pressure [MPa]	1.7~2.3	
Max. Opening Pressure [MPa]	30	
Min. oil quantity for brake releasing [cm ³]	7~8	
Oil volume [cm ³]	50~120	
Max. pressure in drain space [MPa]	0.05	
Weight [kg]	9	9.5



symble drawing

*Static torque is obtained at working pressure 0 MPa

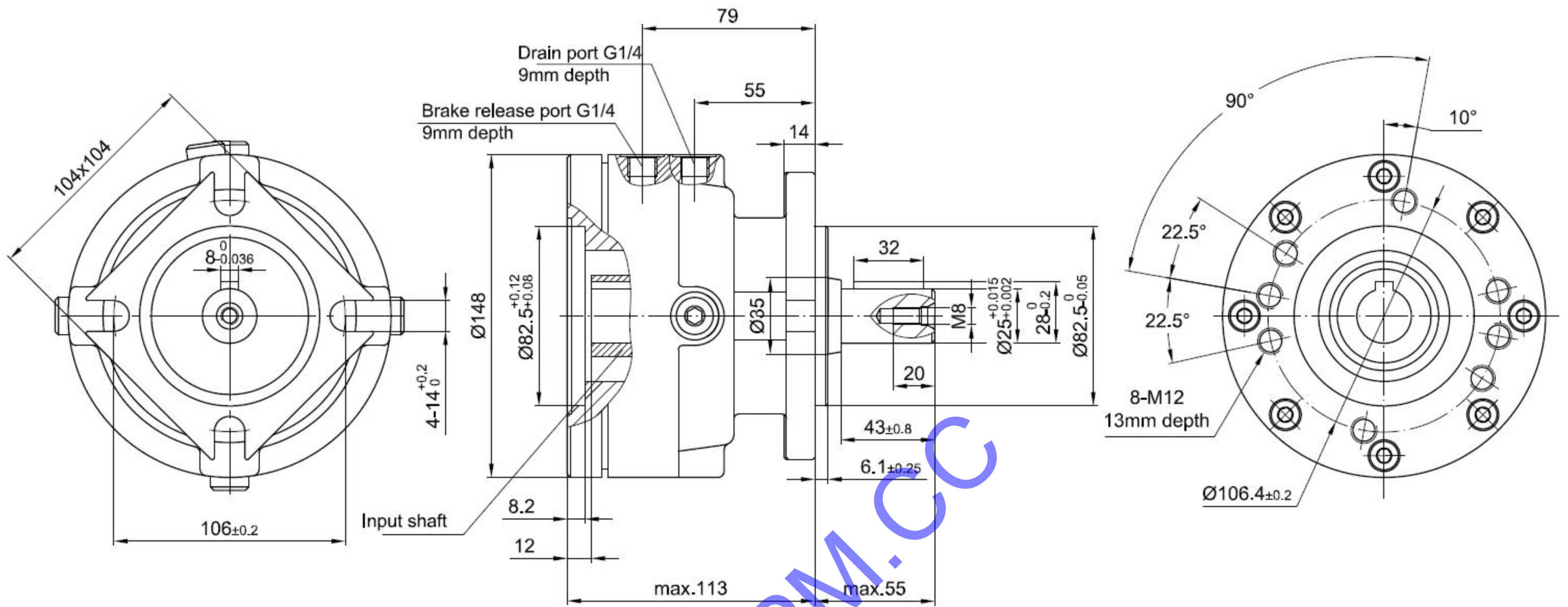
Selection

1	2	3	4	4
Type	Series	Input shaft holes	Output shaft	Paint
BK2-	1-210 (Torque 200-230Nm)	Code A: Ø25, Parallel key 8×7×32	Code A: Ø25, Parallel key 8×7×32	Omit: Blue Code 00: No paint Code B: Black Code S: Silver Grey
		Code B: Ø32, Parallel key 10×8×45	Code B: Ø32, Parallel key 10×8×45	
		Code C: Ø25.4, Parallel key 6.35×6.35×31.75	Code C: Ø25.4, Parallel key 6.35×6.35×31.75	
	Code R: Ø25.4 Short shaft, Parallel key 6.35×6.35×31.75	Code R: Ø25.4 Short shaft, Parallel key 6.35×6.35×31.75		
	Code E: Ø25.4, Splined tooth SAE 5B	Code E: Ø25.4, Splined tooth SAE 6B		
	Code G: Ø31.75, Parallel key 7.95×7.95×31.75	Code G: Ø31.75, Parallel key 7.95×7.95×31.75		
BK2-	1-430 (Torque 410-450Nm)	Code A: Ø25, Parallel key 8×7×32	Code A: Ø25, Parallel key 8×7×32	
		Code B: Ø32, Parallel key 10×8×45	Code B: Ø32, Parallel key 10×8×45	
		Code C: Ø25.4, Parallel key 6.35×6.35×31.75	Code C: Ø25.4, Parallel key 6.35×6.35×31.75	
		Code R: Ø25.4 Short shaft, Parallel key 6.35×6.35×31.75	Code R: Ø25.4 Short shaft, Parallel key 6.35×6.35×31.75	
		Code E: Ø25.4, Splined tooth SAE 5B	Code E: Ø25.4, Splined tooth SAE 6B	
		Code G: Ø31.75, Parallel key 7.95×7.95×31.75	Code G: Ø31.75, Parallel key 7.95×7.95×31.75	

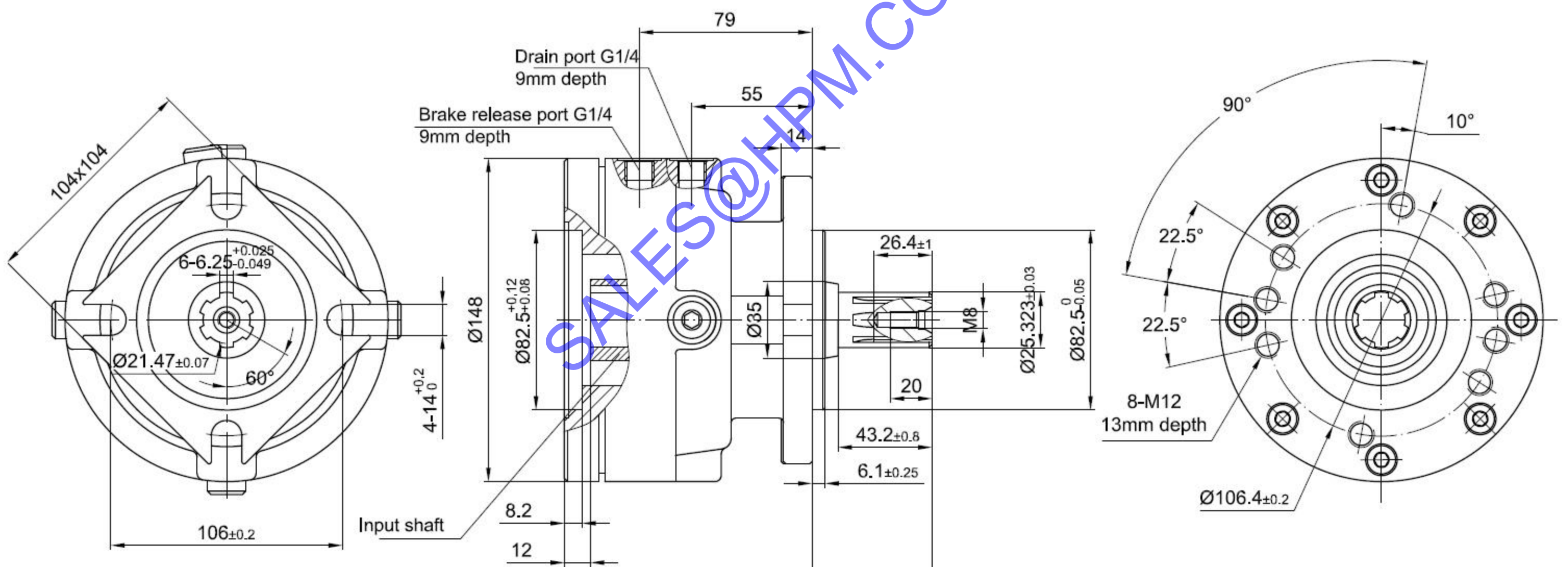
1	2	3	4	4
Type	Series	Input shaft holes	Output shaft	Paint
BK2-	2-430 (Torque 410-450Nm)	Code A: Ø25, Parallel key 8×7×32	Code A: Ø25, Parallel key 8×7×32	Omit: Blue Code 00: No paint Code B: Black Code S: Silver Grey
		Code B: Ø32, Parallel key 10×8×45	Code B: Ø32, Parallel key 10×8×45	
		Code C: Ø25.4, Parallel key 6.35×6.35×31.75	Code C: Ø25.4, Parallel key 6.35×6.35×31.75	
		Code R: Ø25.4 Short shaft, Parallel key 6.35×6.35×31.75	Code R: Ø25.4 Short shaft, Parallel key 6.35×6.35×31.75	
		Code E: Ø25.4, Splined tooth SAE 5B	Code E: Ø25.4, Splined tooth SAE 6B	
		Code G: Ø31.75, Parallel key 7.95×7.95×31.75	Code G: Ø31.75, Parallel key 7.95×7.95×31.75	

Popular model drawing

BK2-1-210-A-A



BK2-1-430-E-E

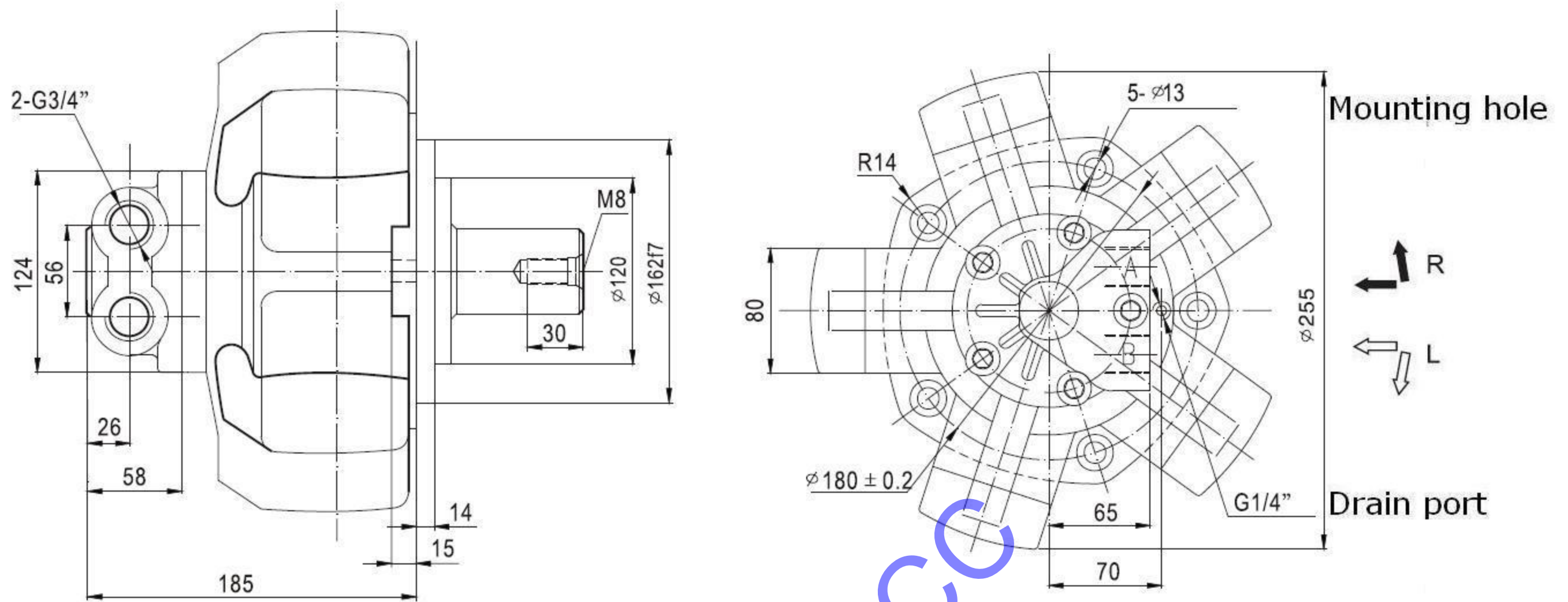


IAM H1 Series Radial piston motor



Other popular name : NHM/IHM/JMDG-2

Installation

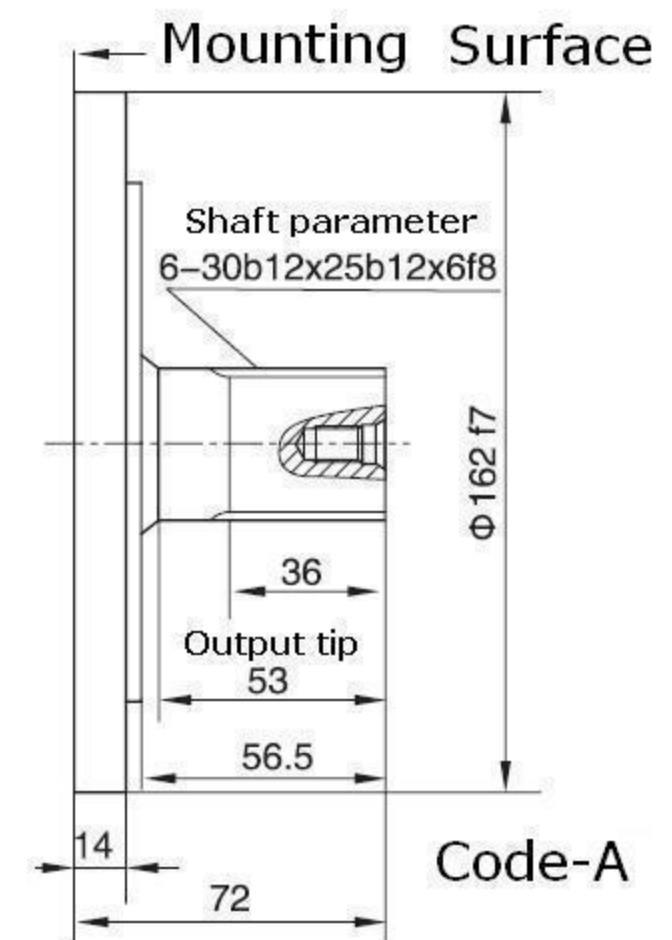


Shaft Selection

Spline shaft

(mm)

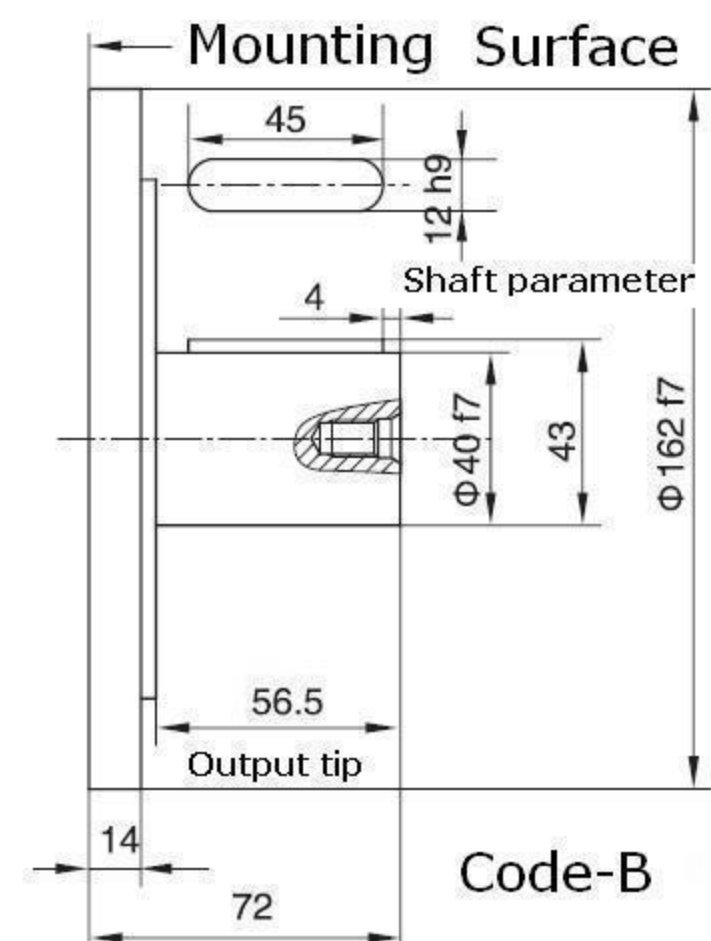
Code of shaft	Dia. of axle	Shaft parameter	Output tip length
Code-A	Φ30	6-30×25×6	53



Key shaft

(mm)

Code of shaft	Dia. of axle	Shaft parameter	Output tip length
Code-B	Φ40	10×45	56.5
Code-B1	Φ40	12×50	55
Code-B2	Φ25	8×40	49
Code-B3	Φ25.4	6.375×35	42.4
Code-B4	Φ31.75	8×35	60
Code-B5	Φ40	12×70	114



IAM H1 Series Radial piston motor



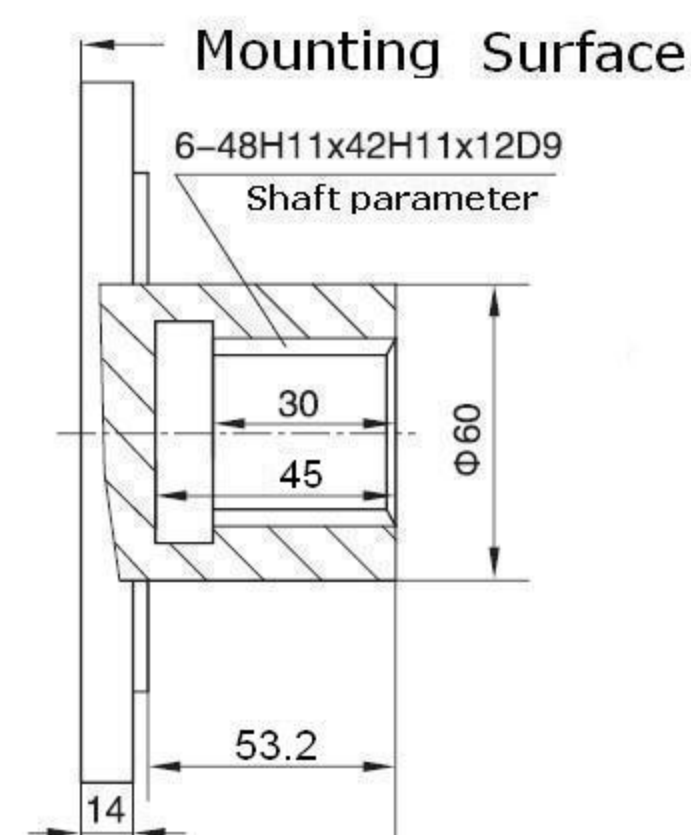
Other popular name : NHM/IHM/JMDG-2

Shaft Selection

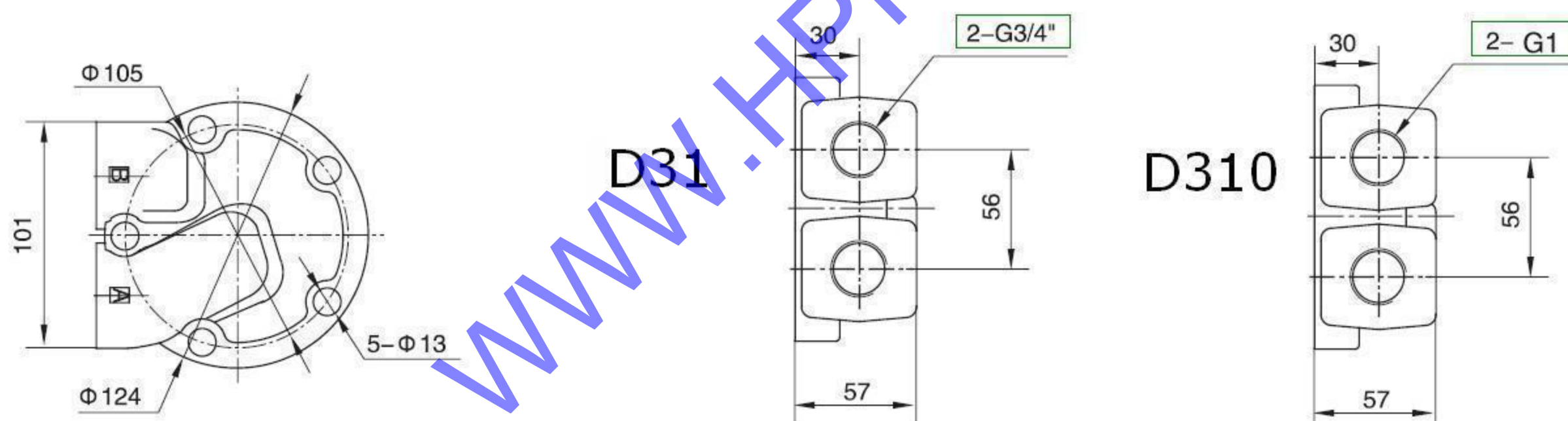
Female spline shaft

(mm)

Code of shaft	Dia. of axle	Shaft parameter
Code-I	Φ60	6-48×42×12



Oil distributor



Parameters

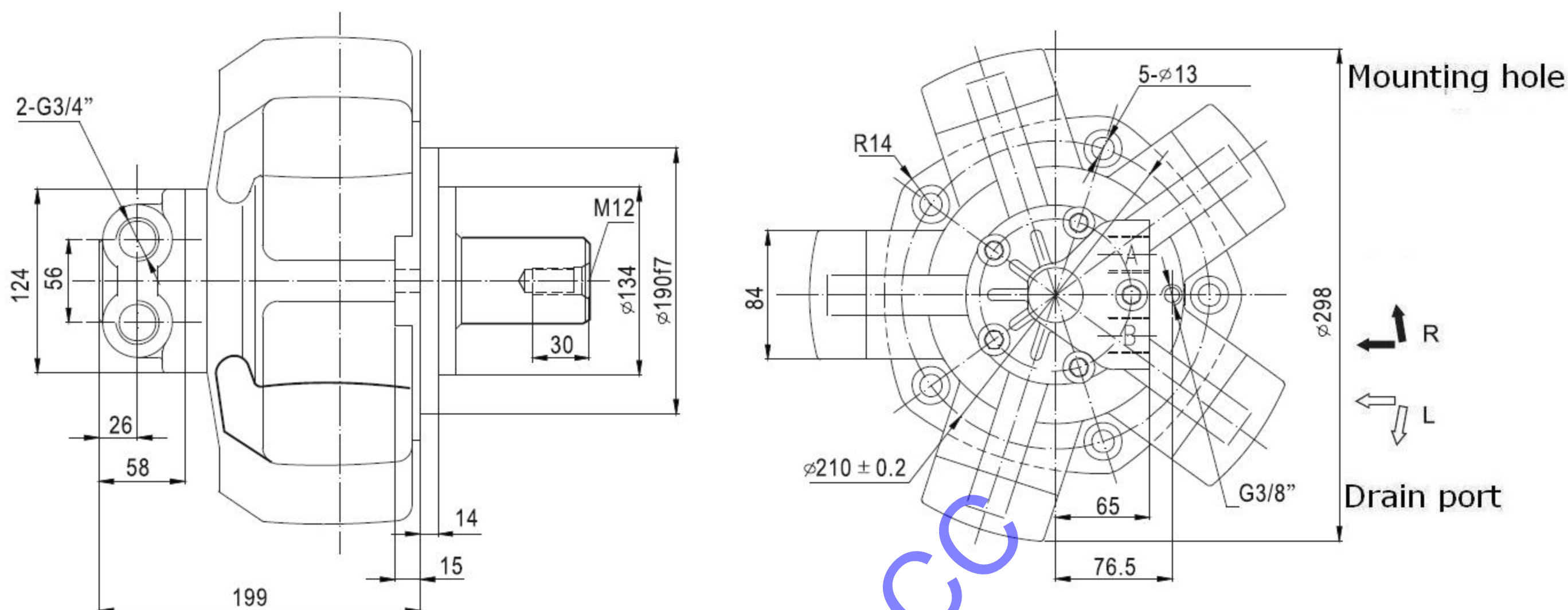
TYPE	Displacement (ml/r)	Pressure(Mpa)		Torque(N.m)		Speed range (r/min)	Max cont Power (r/min)	Weight (kg)
		Peak pressure	Cont pressure	Rate torque	Theoric torque			
IAM-100-H1	113	32	25	420	18	10-1250	25	28
IAM-150-H1	157	32	25	581	25	10-1000	25	28
IAM-175-H1	176	25	20	532	27	10-1000	25	28
IAM-200-H1	201	25	20	600	32	8-800	25	28
IAM-250-H1	254	20	16	607	38	8-630	25	28
IAM-280-H1	271	20	16	642	40	8-630	25	28

IAM H2 Series Radial piston motor



Other popular name : NHM/IHM/JMDG-3

Installation

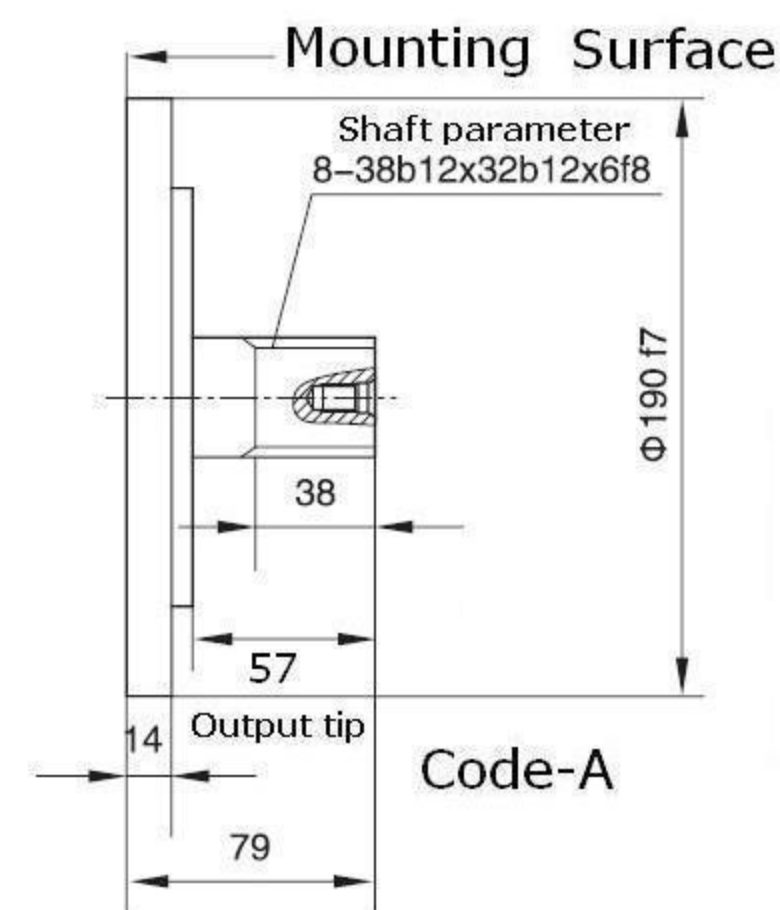


Shaft Selection

Spline shaft

(mm)

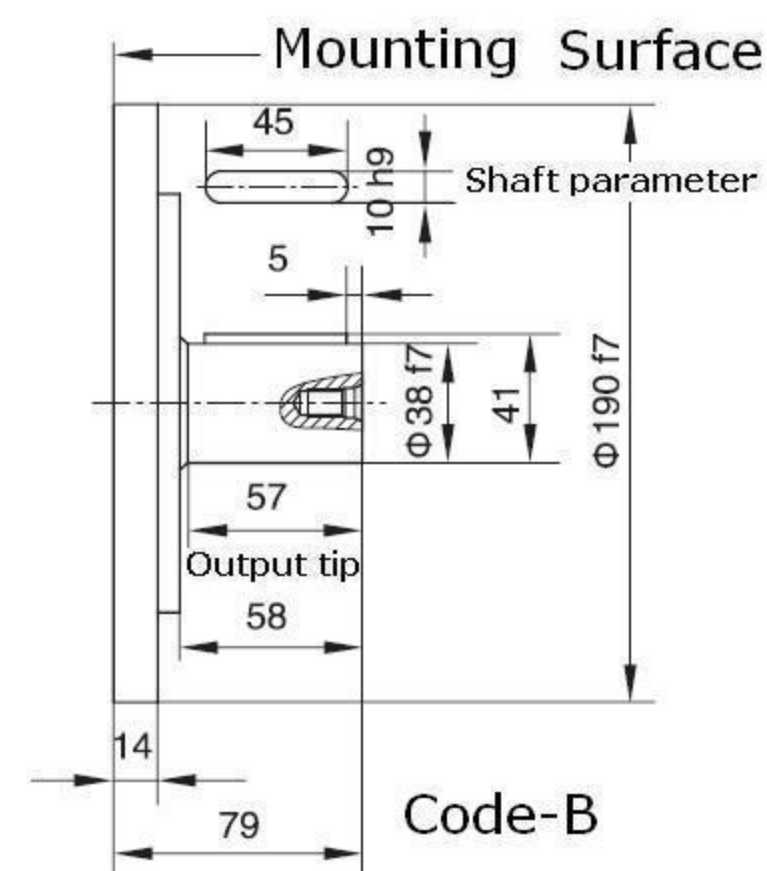
Code of shaft	Dia. of axle	Shaft parameter	Output tip length
Code-A	Φ38	8-38×32×6	57
Code-A1	Φ30	6-30×25×6	68
Code-A2	Φ42	8-42×36×7	57
Code-A3	Φ34	6-34×28×7	57
Code-A4	Φ40	8-40×36×7	81



Key shaft

(mm)

Code of shaft	Dia. of axle	Shaft parameter	Output tip length
Code-B	Φ38	10×45	57
Code-B1	Φ40	12×50	60
Code-B2	Φ50	14×50	80
Code-B3	Φ40	12×45	57
Code-B4	Φ50	16×55	67
Code-B5	Φ40	12×70	84
Code-B6	Φ31.75	10×45	57



IAM H2 Series Radial piston motor



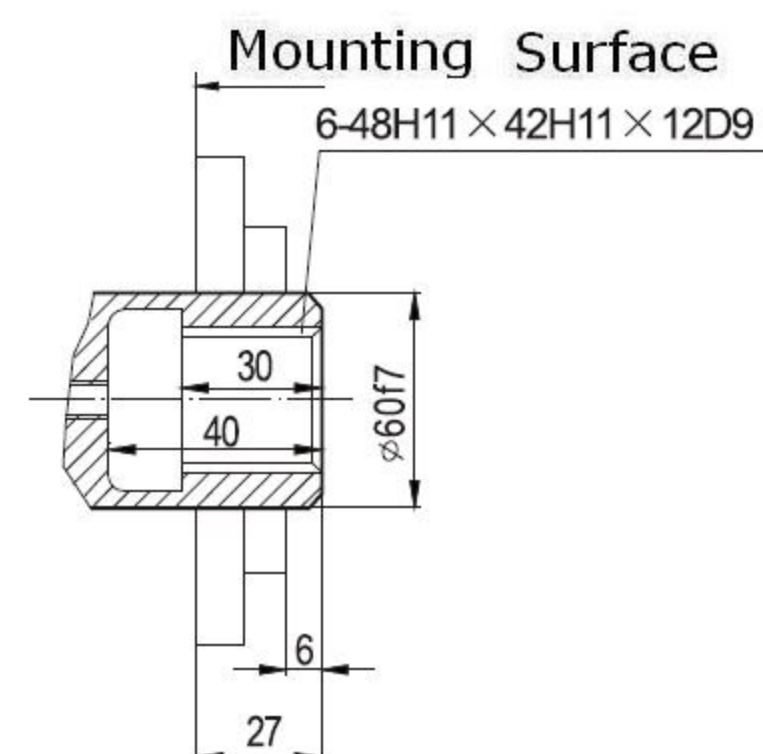
Other popular name : NHM/IHM/JMDG-3

Shaft Selection

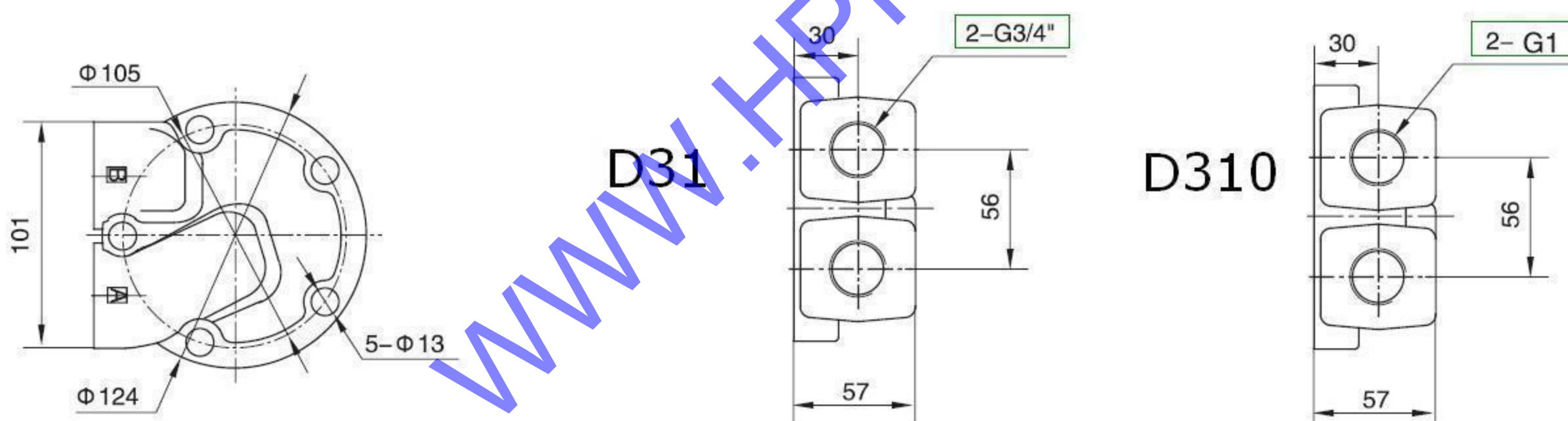
Female spline shaft

(mm)

Code of shaft	Dia. of axle	Shaft parameter
Code-I	Φ60	6-48×42×12



Oil distributor



Parameters

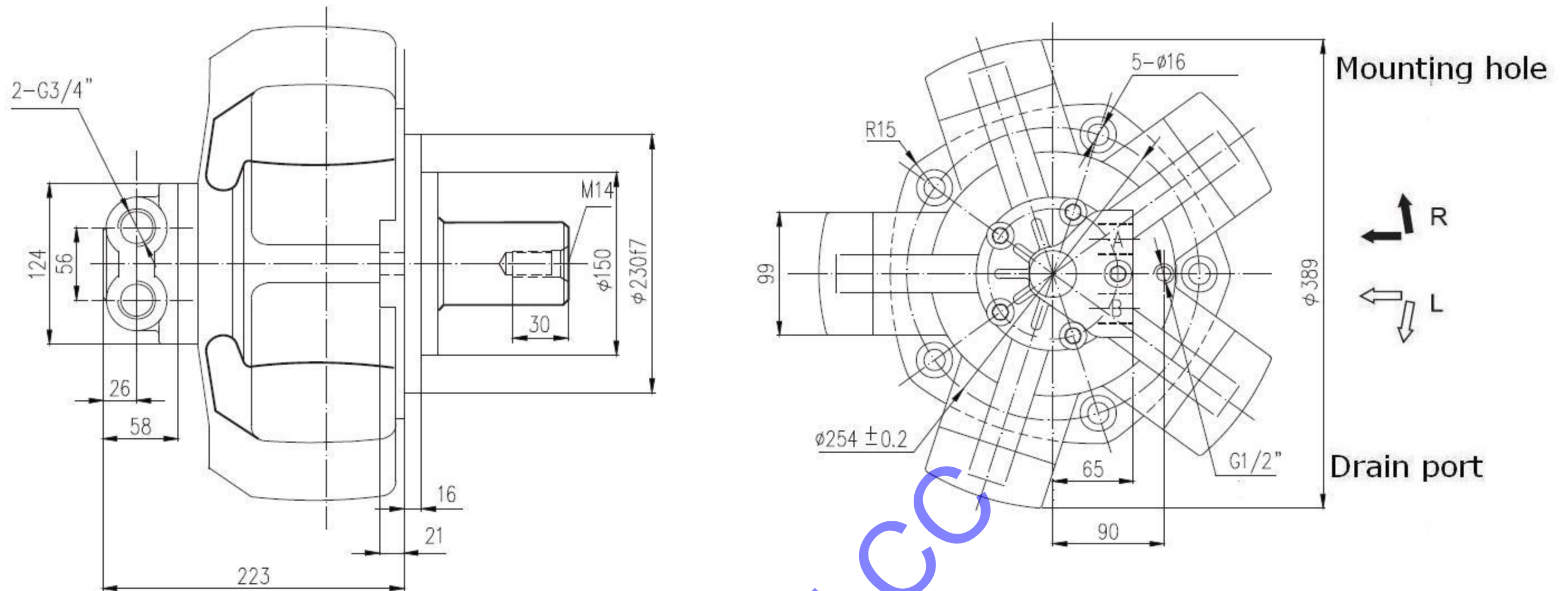
TYPE	Displacement (ml/r)	Pressure (Mpa)		Torque (N.m)		Speed range (r/min)	Max.cont.Power (r/min)	Weight (kg)
		peak pressure	cont. pressure	Rate torque	Theoric Torque			
IAM-200-H2	199	32	25	736	29	8-630	37	36
IAM-250-H2	254	32	25	949	40	8-630	40	36
IAM-300-H2	289	25	20	864	46	6-500	40	36
IAM-350-H2	351	25	20	1040	55	6-400	40	36
IAM-400-H2	397	20	16	949	63	6-400	40	36

IAM H3 Series Radial piston motor



Other popular name : NHM/IHM/JMDG-6

Installation

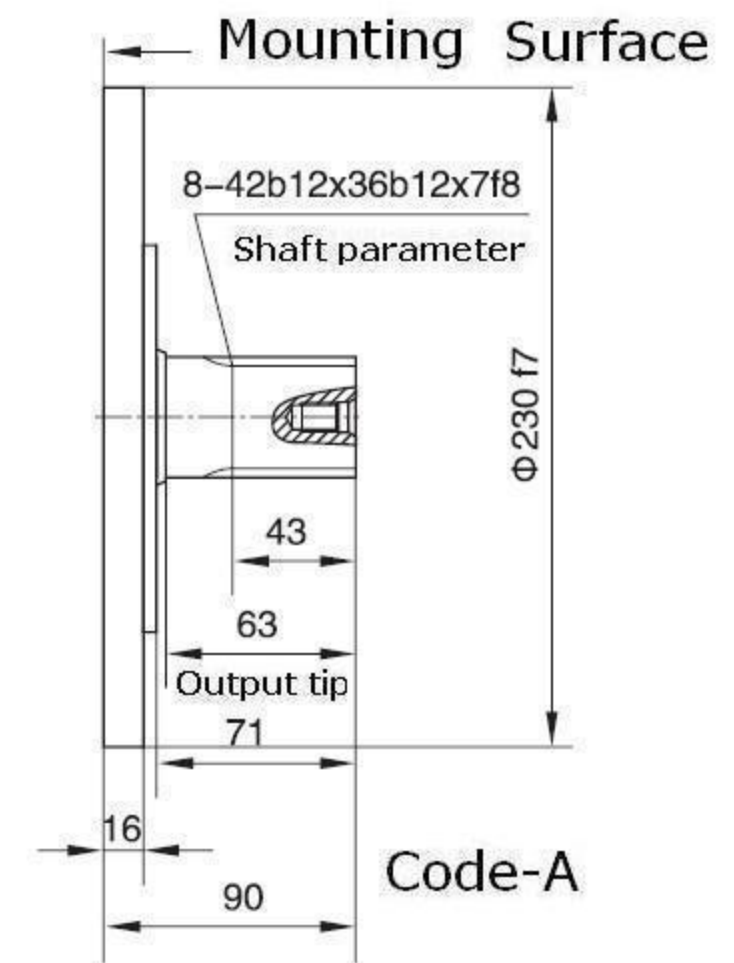


Shaft Selection

Spline shaft

(mm)

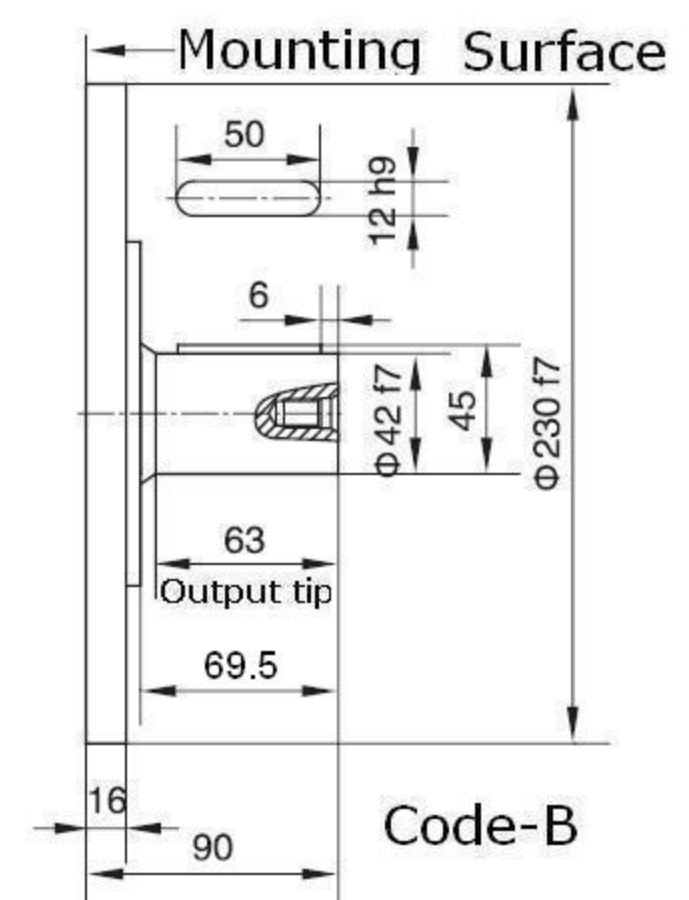
Code of shaft	Dia. of axle	Shaft parameter	Output tip length
Code-A	$\phi 42$	8-42 \times 36 \times 7	63
Code-A1	$\phi 40$	8-40 \times 35 \times 7	80
Code-A2	$\phi 38$	8-38 \times 32 \times 8	80
Code-A3	$\phi 46$	8-46 \times 42 \times 8	63
Code-A4	$\phi 48$	8-48 \times 42 \times 8	63
Code-A5	$\phi 50$	8-50 \times 46 \times 9	120



Key shaft

(mm)

Code of shaft	Dia. of axle	Shaft parameter	Output tip length
Code-B	$\phi 42$	12 \times 50	63
Code-B1	$\phi 40$	12 \times 70	84
Code-B2	$\phi 50$	14 \times 50	79
Code-B3	$\phi 38$	10 \times 45	80
Code-B4	$\phi 50$	14 \times 70	86
Code-B5	$\phi 40$	12 \times 70	84



IAM H3 Series Radial piston motor



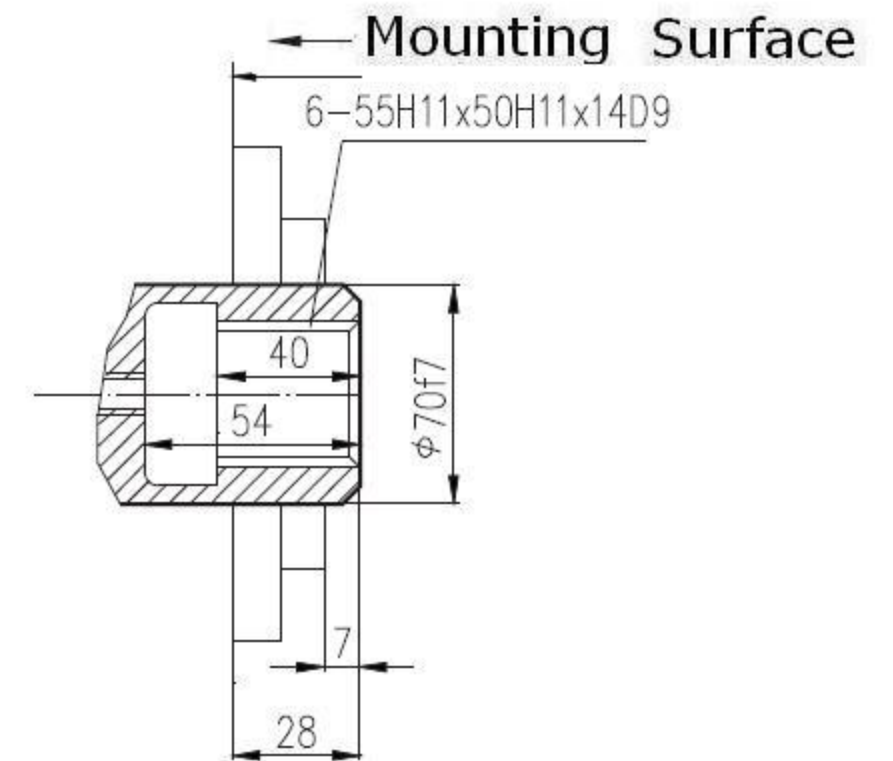
Other popular name : NHM/IHM/JMDG-6

Shaft Selection

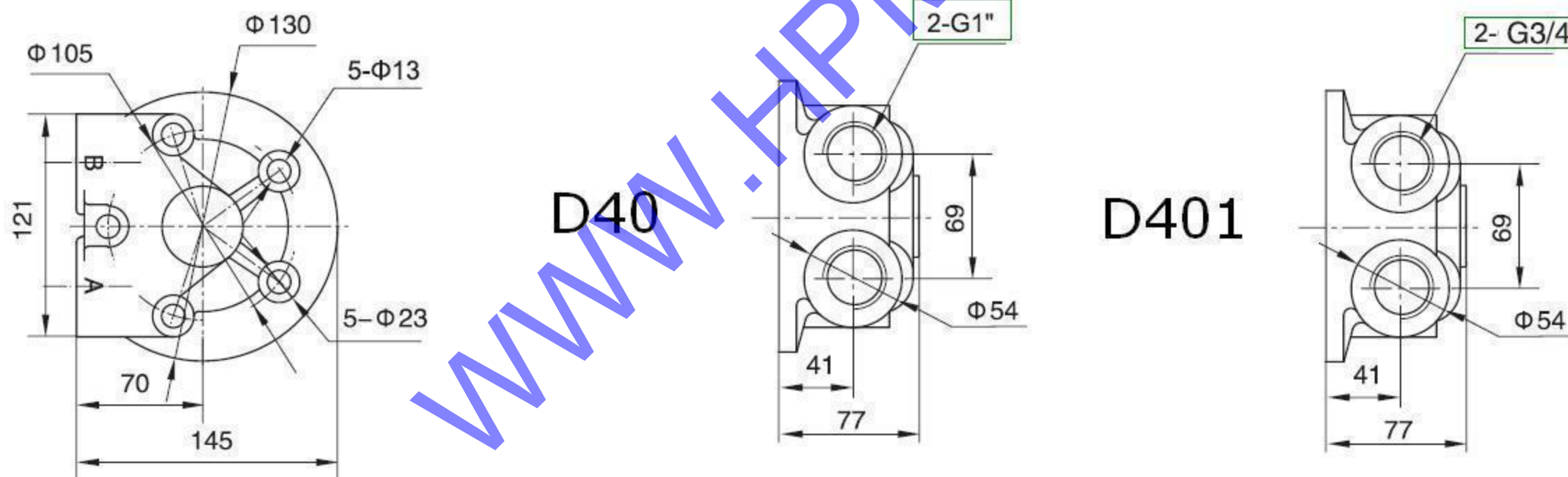
Female spline shaft

(mm)

Code of shaft	Dia. of axle	Shaft parameter	
Code-I	Φ75	6-55×50×14	



Oil distributor



Parameters

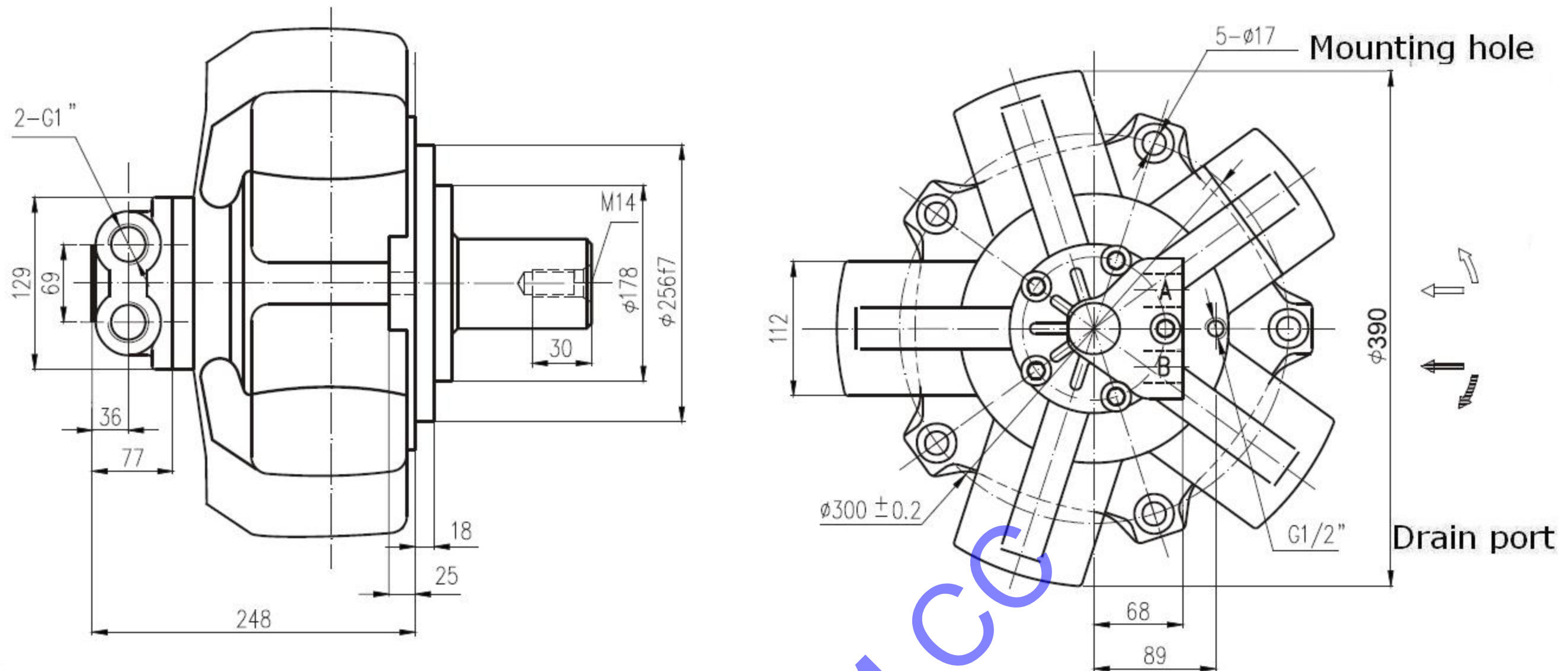
TYPE	Displacement (ml/r)	Pressure(Mpa)		Torque(N.m)		Speed range (r/min)	Max.cont. Power (r/min)	Weight (kg)
		peak pressure	cont. pressure	Rate torque	Theoric Torque			
IAM-400-H3	397	32	25	1483	63	5-630	60	65
IAM-450-H3	452	32	25	1638	72	5-630	63	65
IAM-500-H3	491	25	20	1463	78	5-500	62	65
IAM-600-H3	594	25	20	1775	94	4-500	65	65
IAM-700-H3	683	20	16	1633	103	4-400	65	65
IAM-800-H3	754	20	16	1785	112	4-320	65	65

IAM H34 Series Radial piston motor



Other popular name : NHM/IHM/JMDG-8

Installation



Shaft Selection

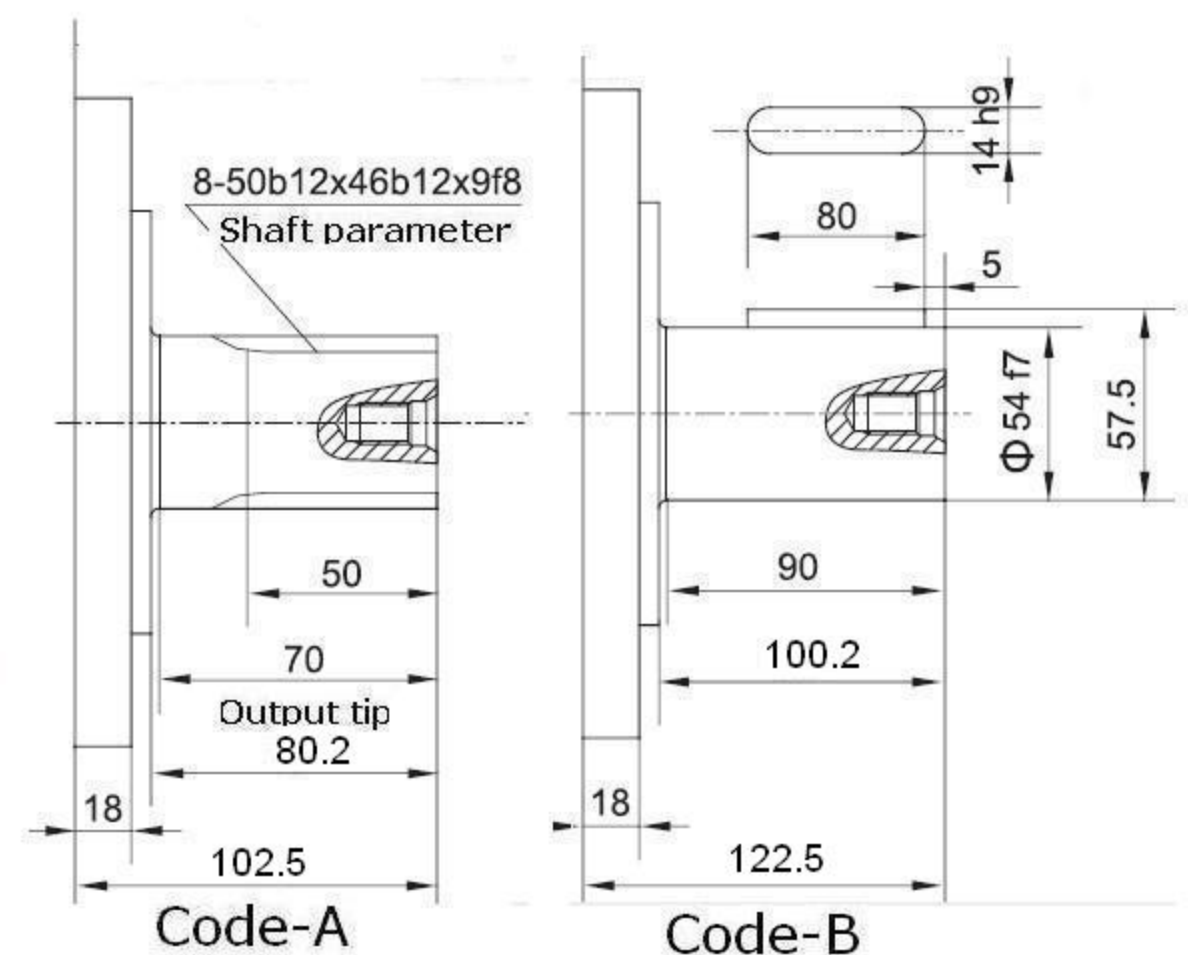
Spline shaft (mm)

Code of shaft	Dia. of axle	Shaft parameter	Output tip length
Code-A	φ50	8-50×46×9	74
Code-A1	φ50	8-50×46×9	70

Key shaft (mm)

Code of shaft	Dia. of axle	Shaft parameter	Output tip length
Code-B	φ54	14×80	90

Mounting Surface



Parameters

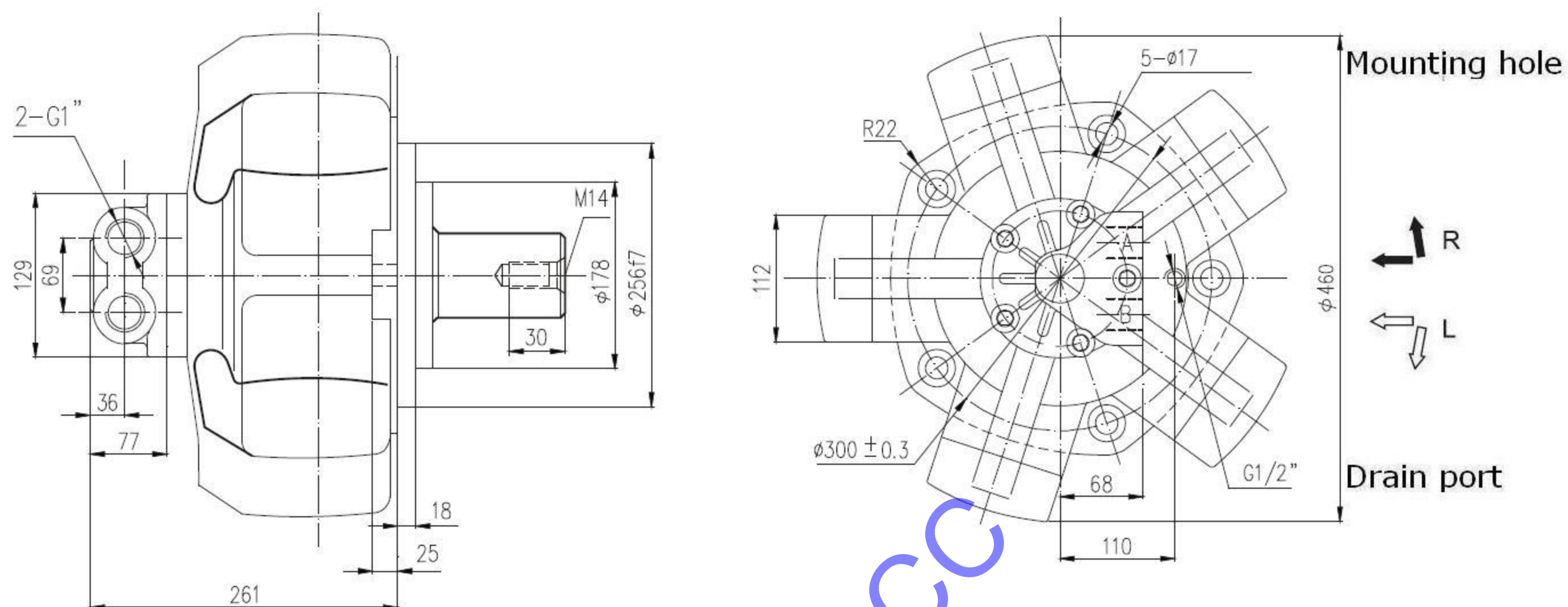
TYPE	Displacement (ml/r)	Pressure(Mpa)		Torque(N.m)		Speed range (r/min)	Max.cont. Power (r/min)	Weight (kg)
		peak pressure	cont. pressure	Rate torque	Theoric Torque			
IAM-600-H34	617	32	25	2282	91	4-500	70	71
IAM-700-H34	710	32	25	2626	105	4-400	70	71
IAM-800-H34	810	25	20	2396	120	4-400	65	71
IAM-900-H34	889	25	20	2629	131	3-350	65	71
IAM-1000-H34	1000	20	16	2366	148	3-300	65	71

IAM H4 Series Radial piston motor



Other popular name : NHM/IHM/JMDG-11

Installation

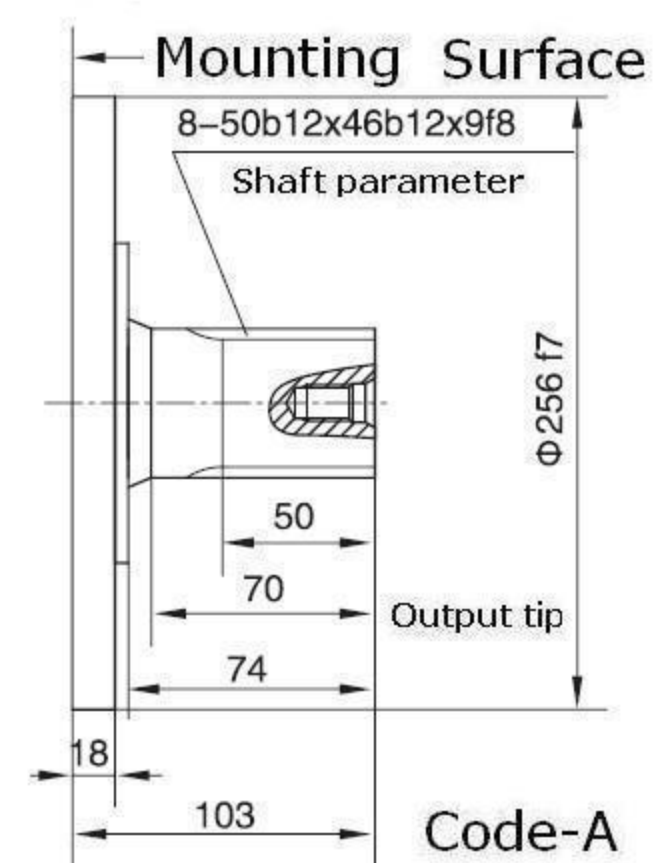


Shaft Selection

Spline shaft

(mm)

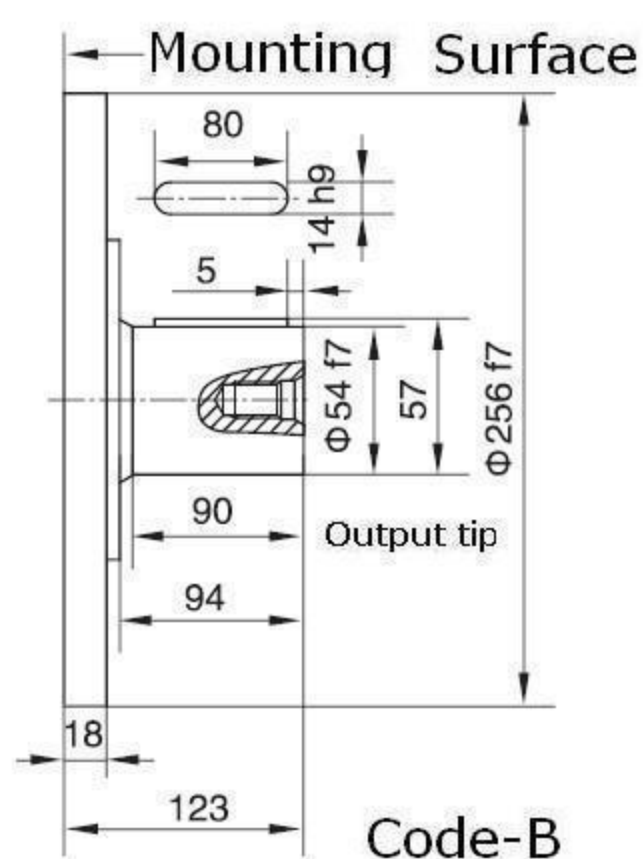
Code of shaft	Dia. of axle	Shaft parameter	Output tip length
Code-A	Φ50	8-50×46×9	70
Code-A1	Φ42	8-42×36×7	90
Code-A2	Φ54	8-54×46×9	72
Code-A3	Φ65	8-65×56×10	80



Key shaft

(mm)

Code of shaft	Dia. of axle	Shaft parameter	Output tip length
Code-B	Φ54	14×80	90
Code-B1	Φ70	20×80	107
Code-B2	Φ63	18×50	140
Code-B3	Φ60	18×80	90
Code-B4	Φ50	14×70	82
Code-B5	Φ50	18×95	140
Code-B6	Φ60	18×95	111
Code-B7	Φ65	18×121	126



IAM H4 Series Radial piston motor



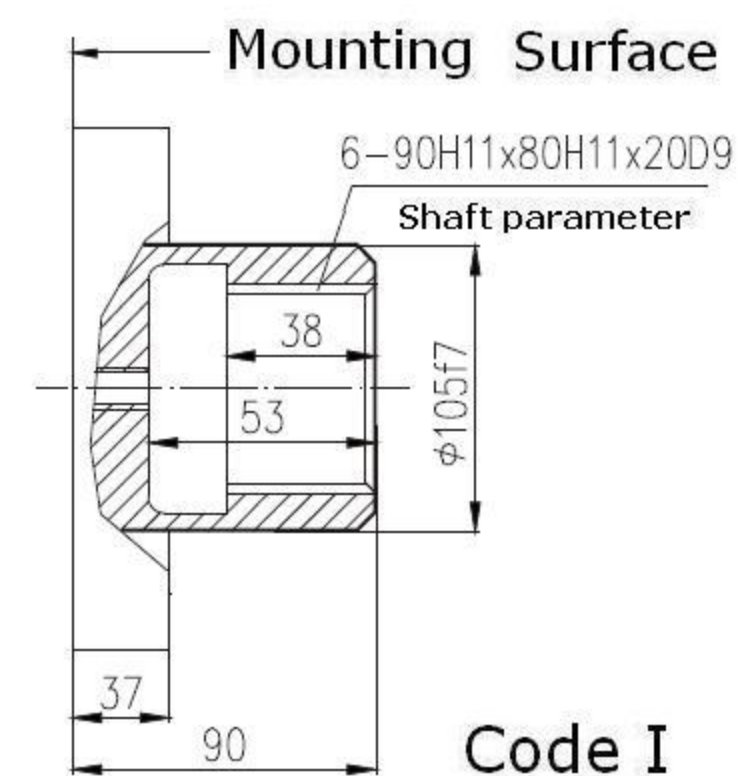
Other popular name : NHM/IHM/JMDG-11

Shaft Selection

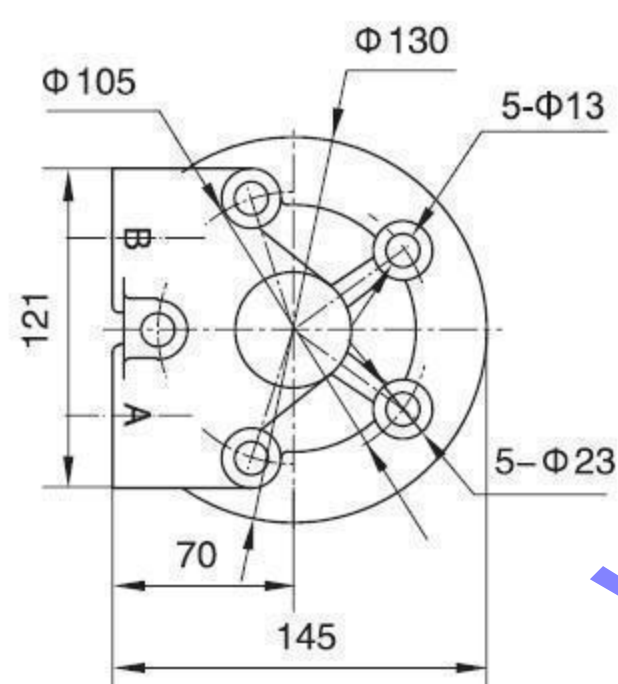
Female spline shaft

(mm)

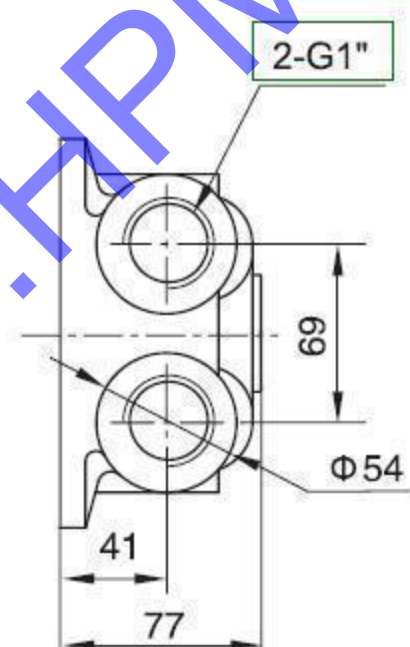
Code of shaft	Dia. of axle	Shaft parameter
Code-I	Φ105	6-90×80×20



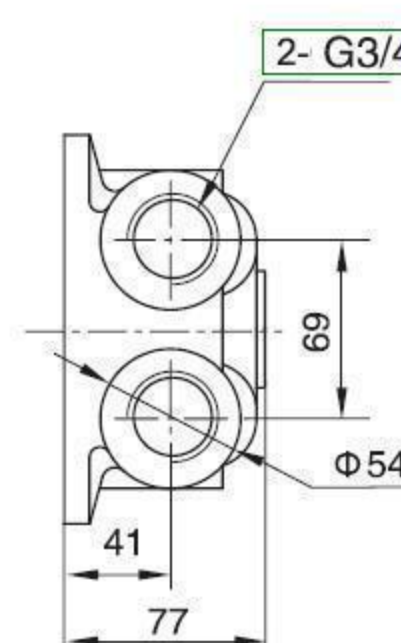
Oil distributor



D40



D401



Parameters

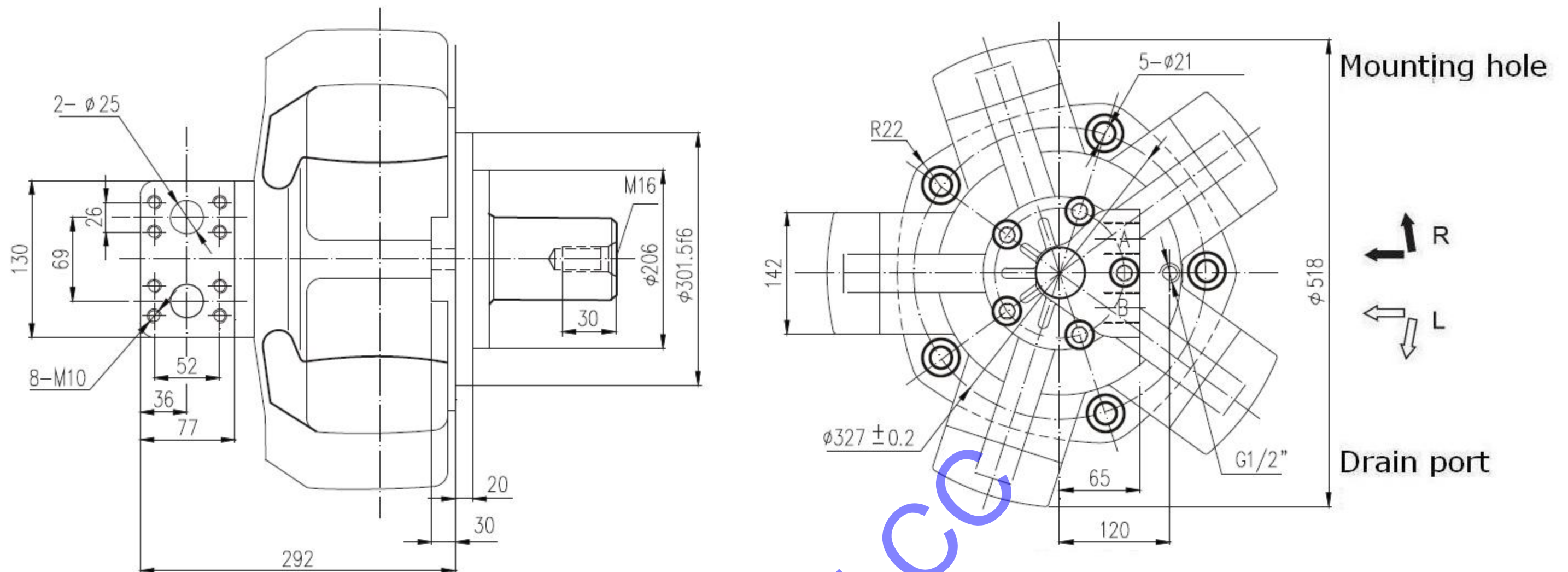
TYPE	Displacement (ml/r)	Pressure(Mpa)		Torque(N.m)		Speed range (r/min)	Max.cont.Power (r/min)	Weight (kg)
		peak pressure	cont. pressure	Rate torque	Theoric Torque			
IAM-700-H4	714	32	25	2667	114	4-400	80	90
IAM-800-H4	782	32	25	2959	120	4-400	80	90
IAM-1000-H4	995	25	20	2974	158	3-320	85	90
IAM-1100-H4	1116	25	20	3336	177	3-320	85	90
IAM-1200-H4	1175	25	20	3512	187	3-320	85	90
IAM-1300-H4	1296	20	16	3080	206	3-250	80	90

IAM H5 Series Radial piston motor



Other popular name : NHM/IHM/JMDG-16

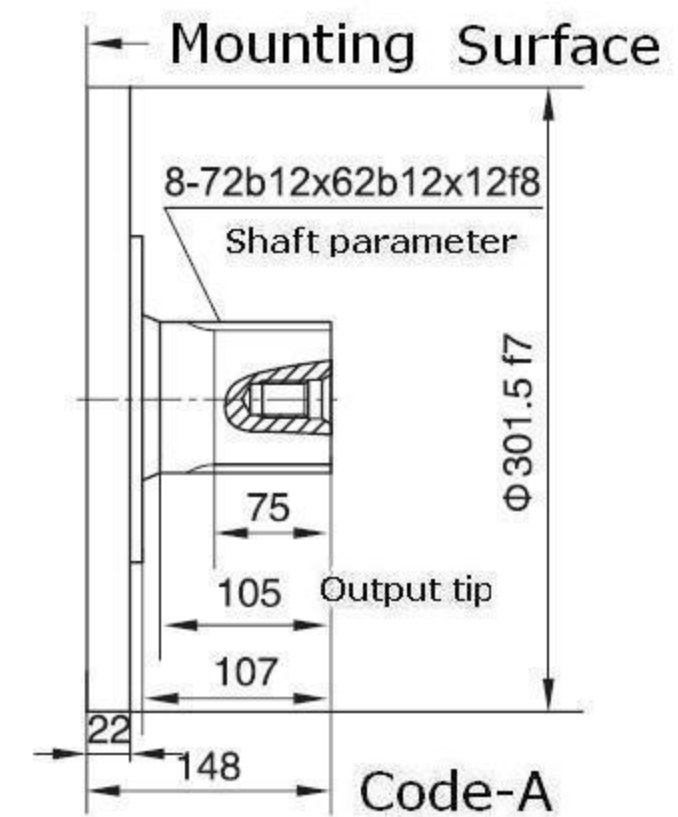
Installation



Shaft Selection

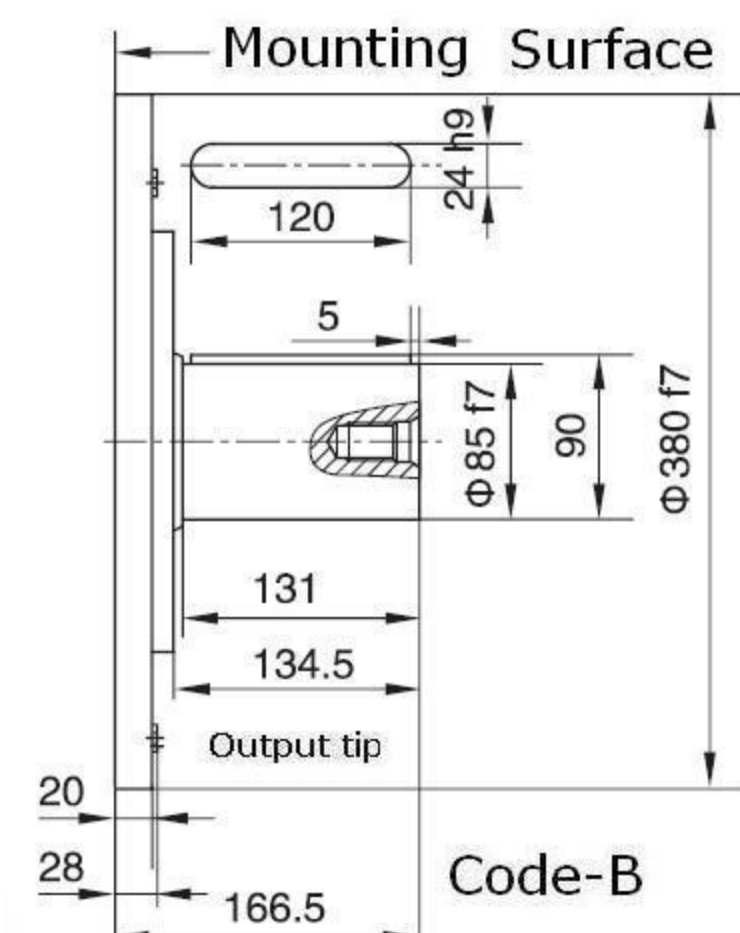
Spline shaft (mm)

Code of shaft	Dia. of axle	Shaft parameter	Output tip length
Code-A	$\phi 72$	8-72 \times 62 \times 12	88
Code-A1	$\phi 65$	8-65 \times 56 \times 10	80
Code-A2	$\phi 82$	10-82 \times 72 \times 12	107
Code-A3	$\phi 50$	8-50 \times 46 \times 9	85
Code-A4	$\phi 72$	8-72 \times 62 \times 12	93
Code-A5	$\phi 68$	8-68 \times 62 \times 12	105
Code-A6	$\phi 72$	8-72 \times 62 \times 12	70



Key shaft (mm)

Code of shaft	Dia. of axle	Shaft parameter	Output tip length
Code-B	$\phi 72$	18 \times 100	110
Code-B1	$\phi 60$	18 \times 100	110
Code-B2	$\phi 80$	24 \times 110	107
Code-B3	$\phi 95$	25 \times 100	129
Code-B4	$\phi 75$	24 \times 115	120
Code-B5	$\phi 54$	14 \times 80	110
Code-B6	$\phi 60$	18 \times 95	123
Code-B7	$\phi 80$	24 \times 80	95



IAM H5 Series Radial piston motor



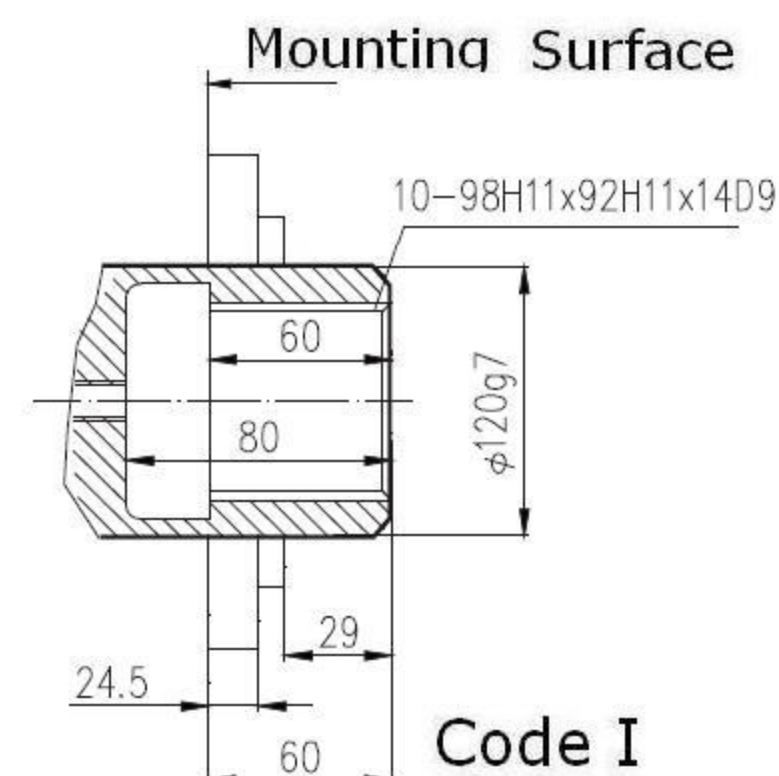
Other popular name : NHM/IHM/JMDG-16

Shaft Selection

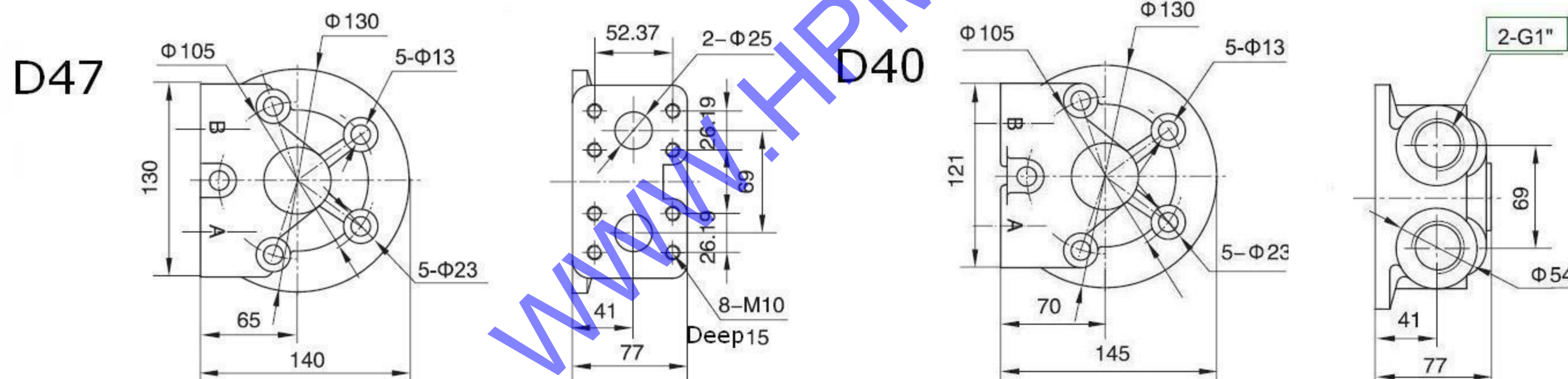
Female spline shaft

(mm)

Code of shaft	Dia. of axle	Shaft parameter
Code-I	Φ120	10-98×92×14



Oil distributor



Parameters

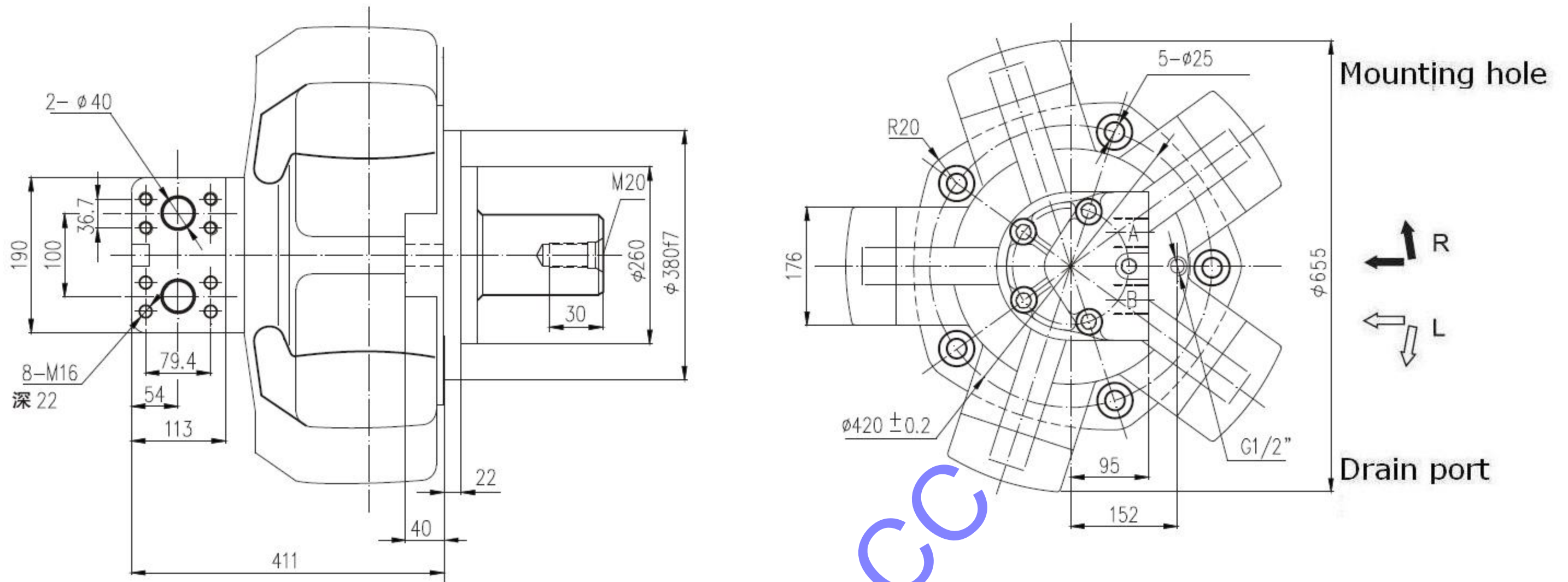
TYPE	Displacement (ml/r)	Pressure(Mpa)		Torque(N.m)		Speed range (r/min)	Max.cont. Power (r/min)	Weight (kg)
		peak pressure	cont. pressure	Rate torque	Theoric Torque			
IAM-1400-H5	1375	32	25	5138	210	2-400	100	160
IAM-1600-H5	1648	32	25	6158	262	2-320	110	160
IAM-1800-H5	1814	25	20	5433	283	2-320	110	160
IAM-2000-H5	2034	25	20	6030	323	2-250	110	160
IAM-2400-H5	2412	20	16	5763	384	2-250	97	160

IAM H6 Series Radial piston motor



Other popular name : NHM/IHM/JMDG-31

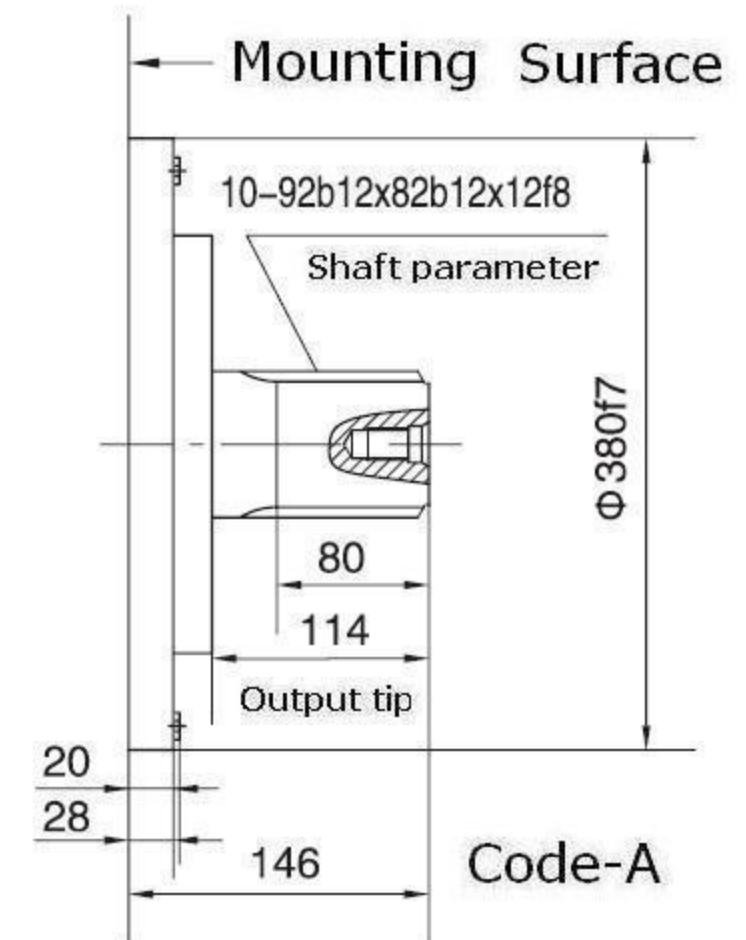
Installation



Shaft Selection

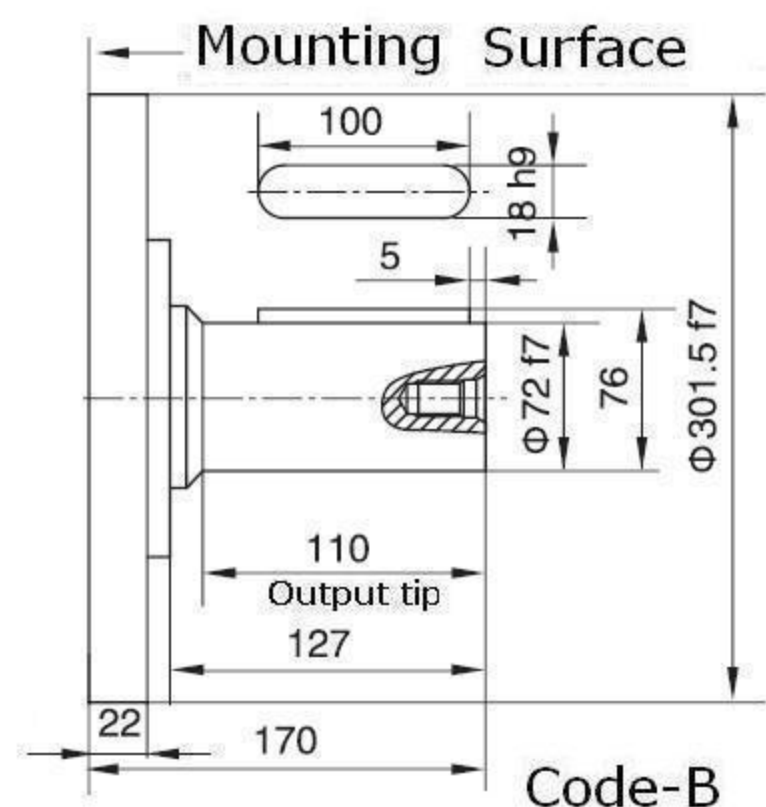
Spline shaft (mm)

Code of shaft	Dia. of axle	Shaft parameter	Output tip length
Code-A	Φ92	10-92×82×12	110
Code-A1	Φ88	10-88×80×12	95
Code-A2	Φ82	10-82×72×12	112
Code-A3	Φ92	10-92×82×12	119.5



Key shaft (mm)

Code of shaft	Dia. of axle	Shaft parameter	Output tip length
Code-B	Φ85	24×120	131
Code-B1	Φ101.5	25.4×145	180
Code-B2	Φ85	24×90	120
Code-B3	Φ101.6	25.4×145	108
Code-B4	Φ85	24×140	149



IAM H6 Series Radial piston motor



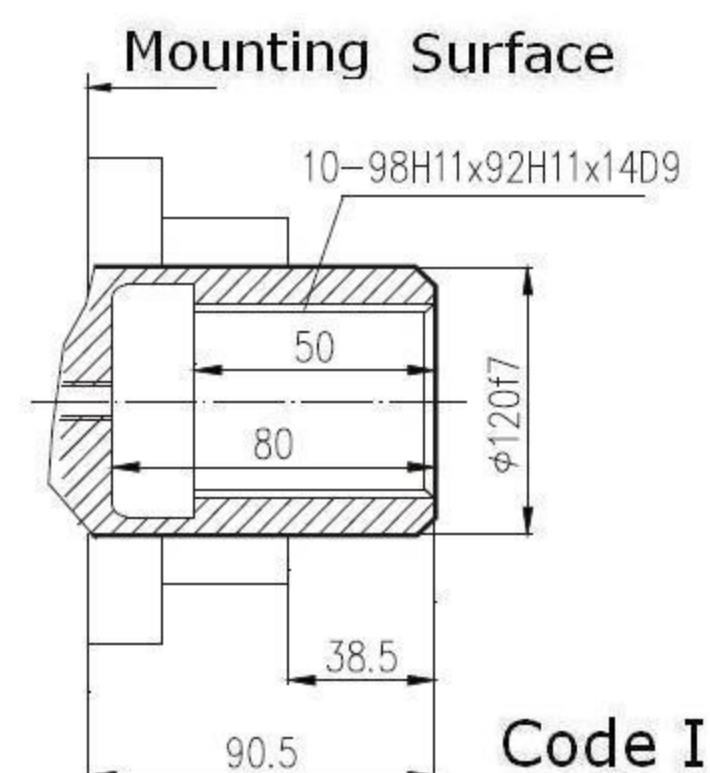
Other popular name : NHM/IHM/JMDG-31

Shaft Selection

Female spline shaft

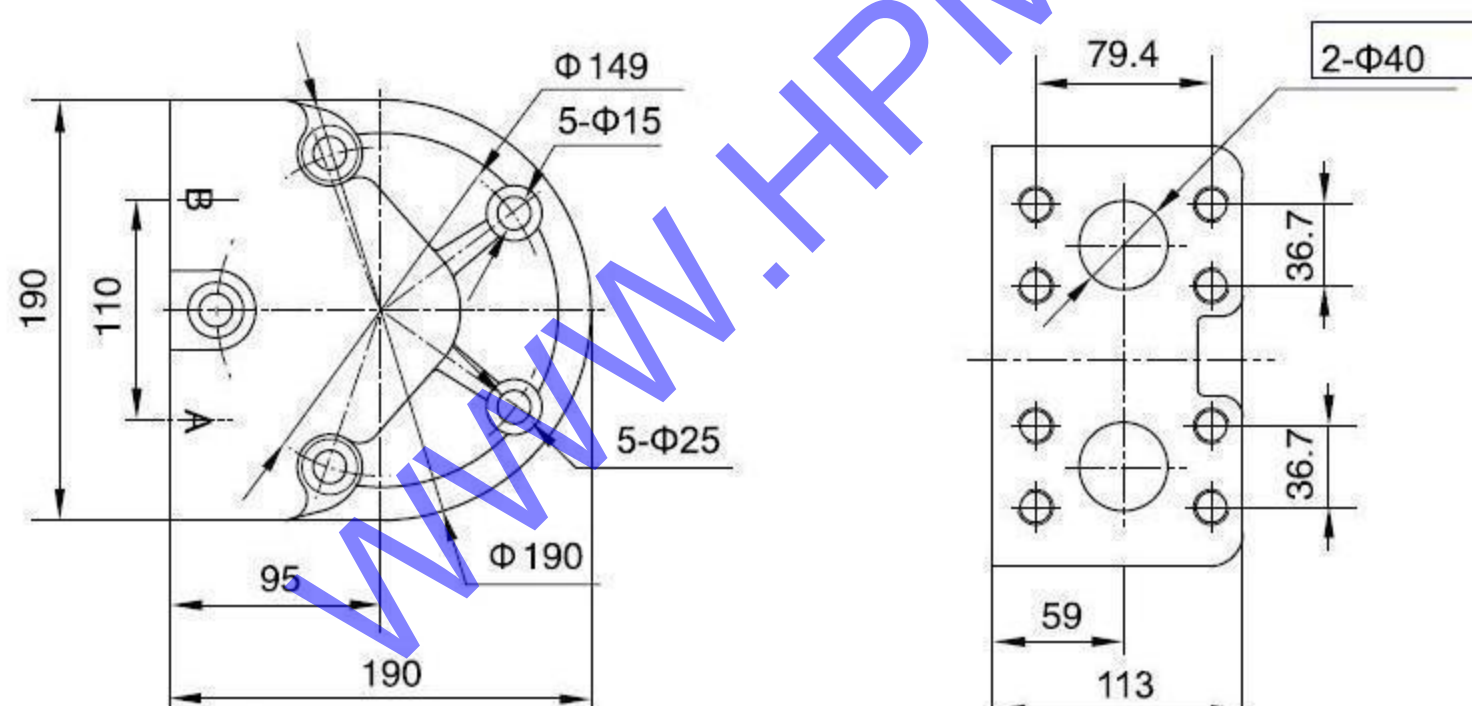
(mm)

Code of shaft	Dia. of axle	Shaft parameter	
Code-I	Φ120	10-98×92×14	
Code-I1	Φ150	10-98×92×14	



Oil distributor

D90

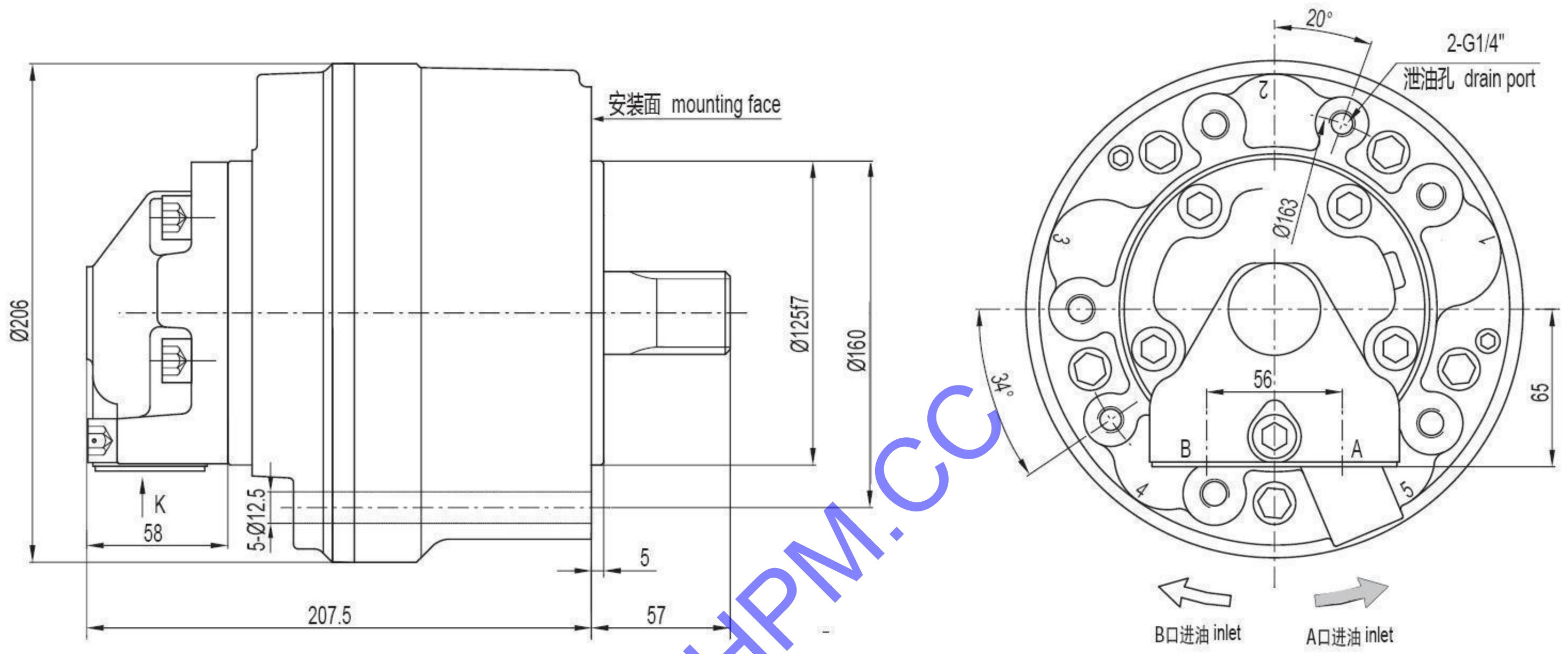


Parameters

TYPE	Displacement (ml/r)	Pressure(Mpa)		Torque(N.m)		Speed range (r/min)	Max.cont. Power (r/min)	Weight (kg)
		peak pressure	cont. pressure	Rate torque	Theoric Torque			
IAM -2500-H6	2550	32	25	9523	405	1-200	150	325
IAM -2800-H6	2826	32	25	10559	443	1-200	150	325
IAM -3000-H6	3050	25	20	9135	485	1-200	140	325
IAM -3150-H6	3142	25	20	9392	500	1-200	140	325
IAM -3500-H6	3419	25	20	10220	544	1-200	140	325
IAM -4000-H6	4170	25	20	12841	665	1-160	130	325
IAM -4500-H6	4522	20	16	10698	669	1-160	130	325
IAM -5000-H6	5190	20	16	12387	825	1-160	130	325

Other popular name : **INM/XHS/AKS /05**

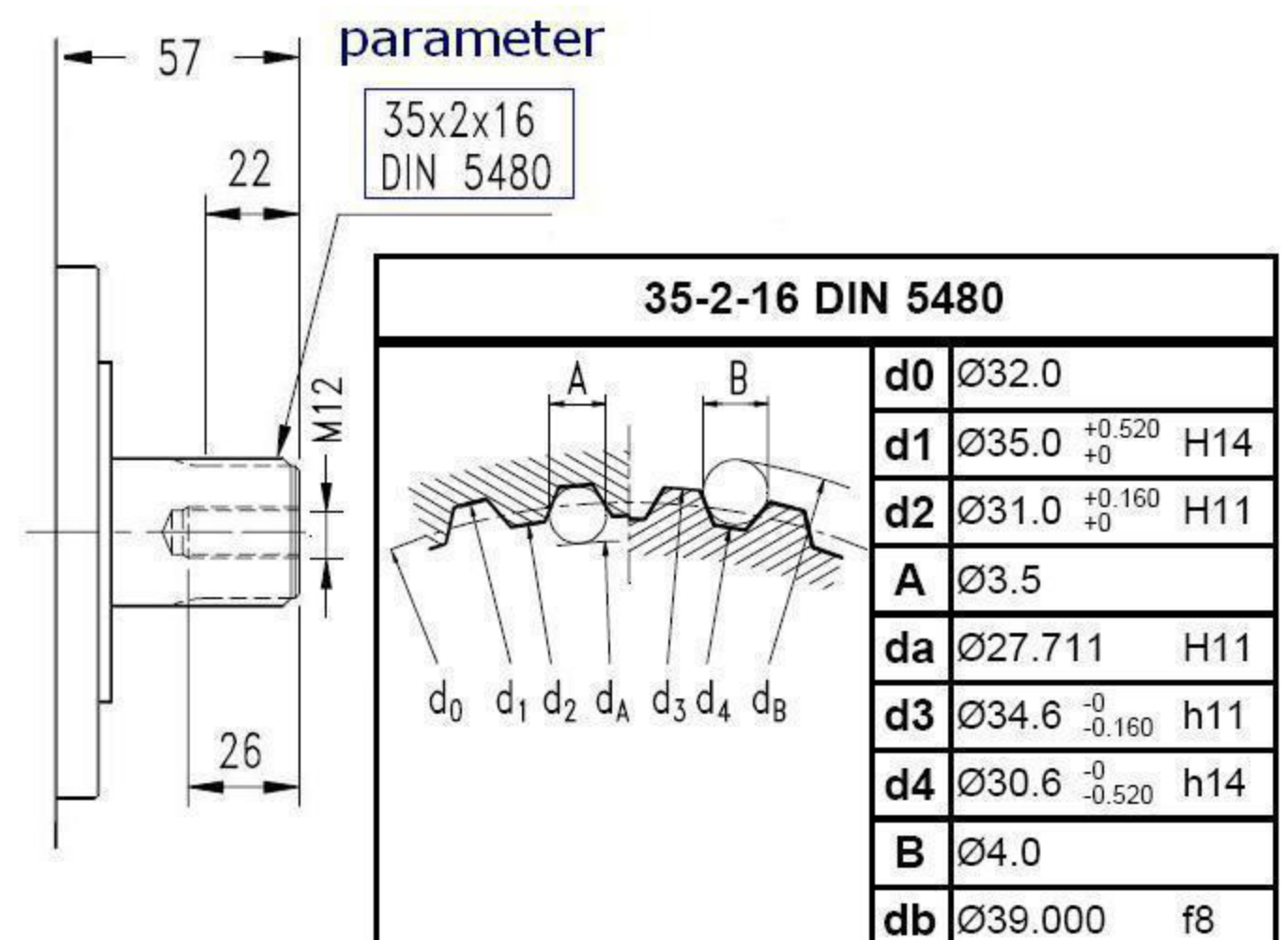
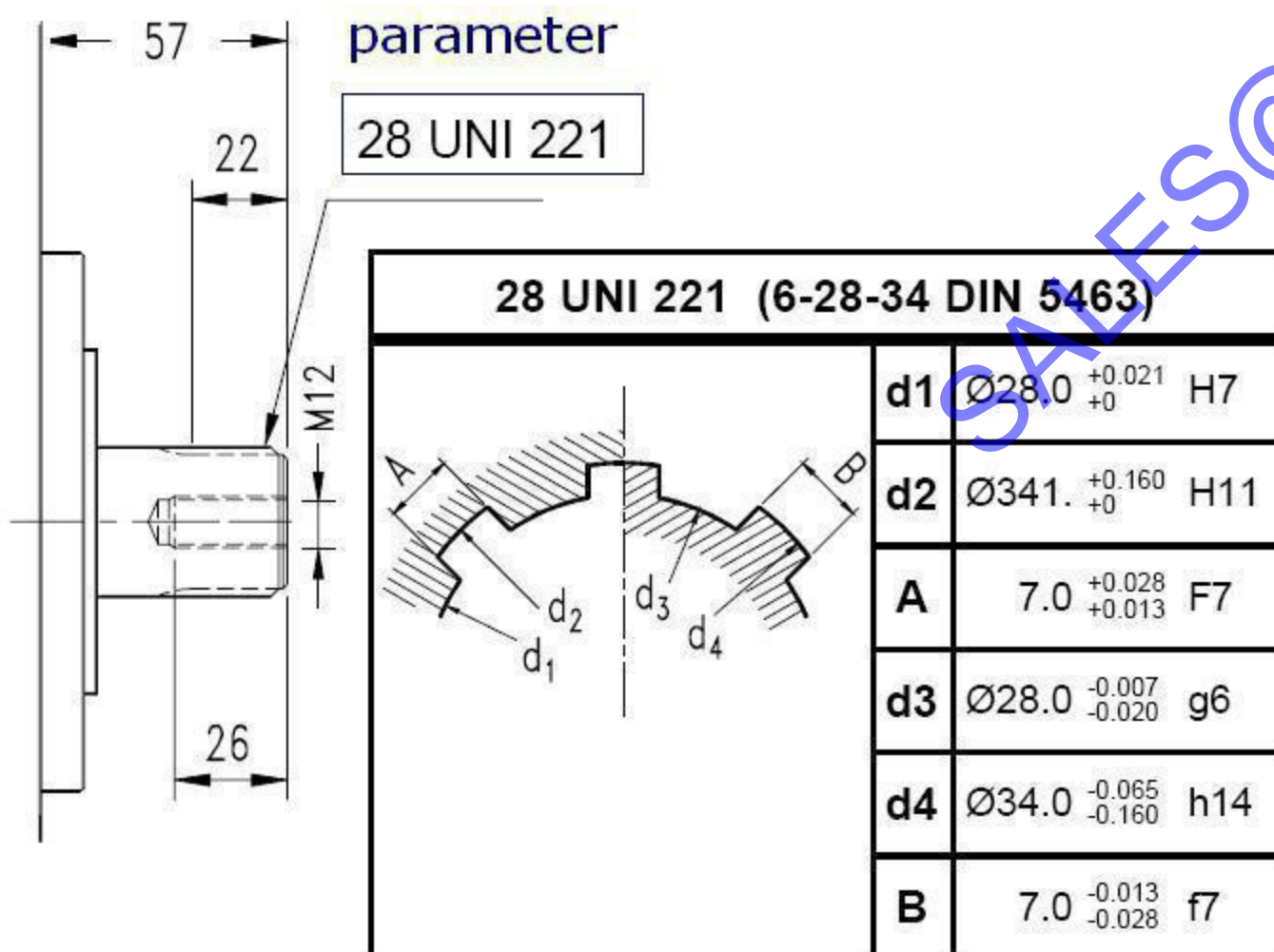
Installation



Shaft Selection

A Standard Shaft: Male splined shaft

A1 Shaft: Involute splined shaft



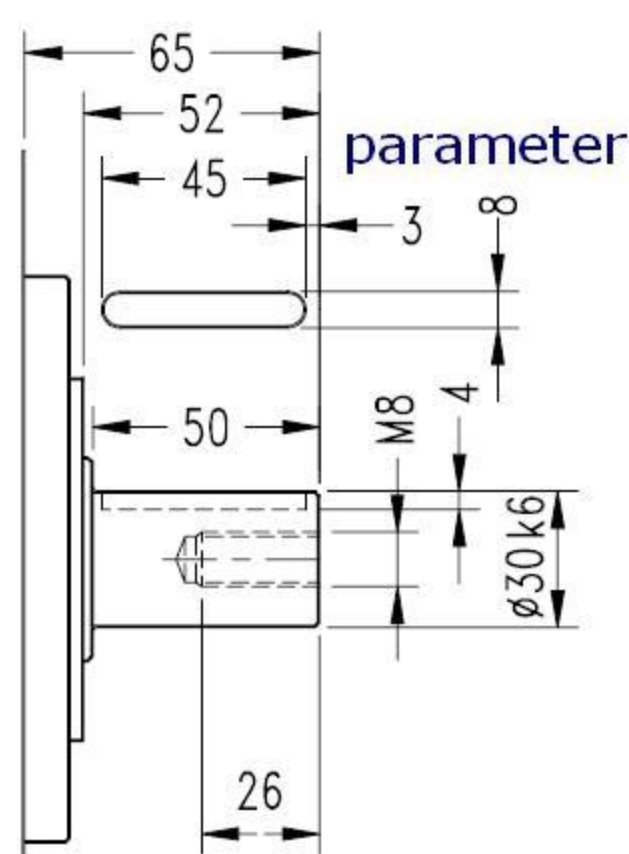
GM05 Series Swivelling Cylinder Motor



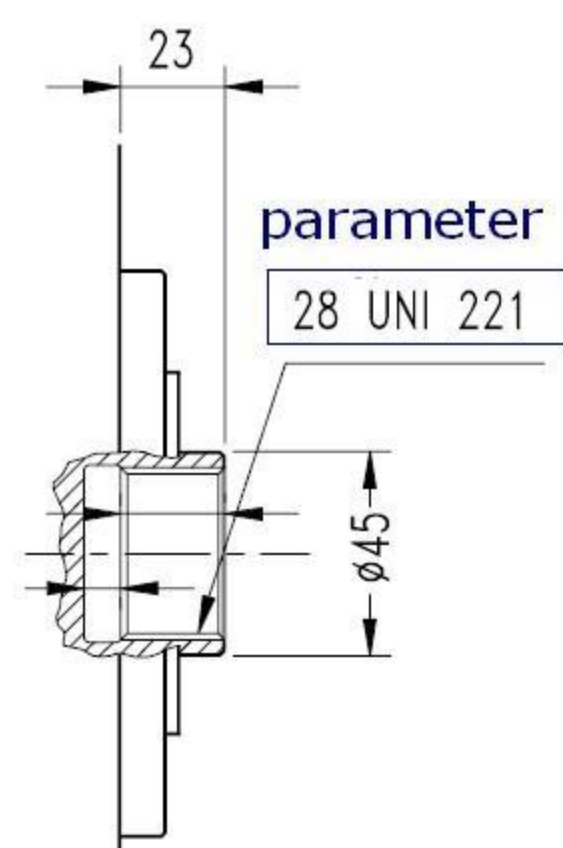
Other popular name : **INM/XHS/AKS /05**

Shaft Selection

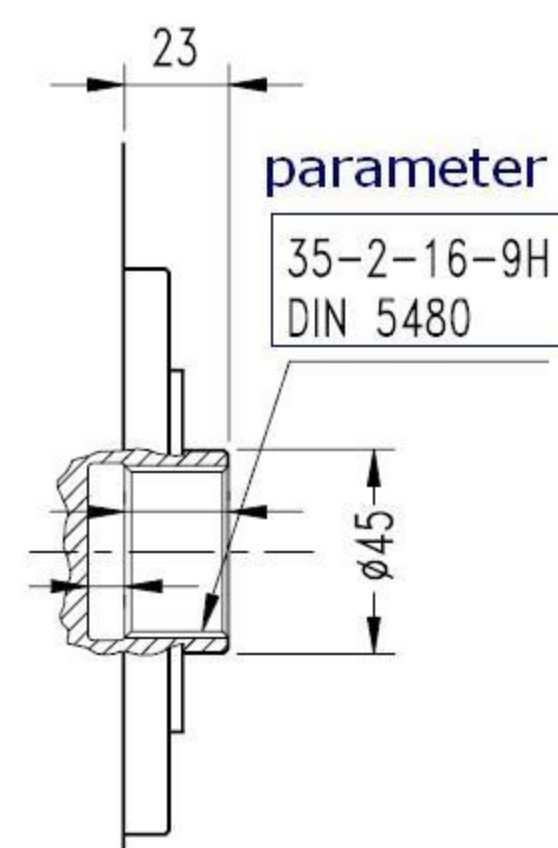
B Shaft:Cylindrical shaft



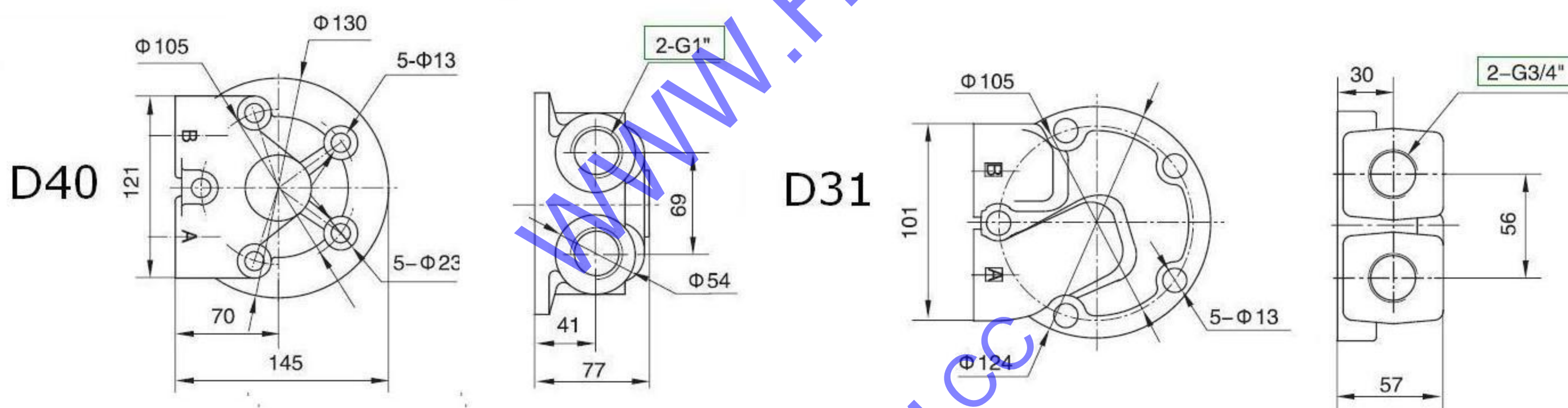
I Shaft:Female spline shaft



IA Shaft:Involute female spline shaft



Oil distributor

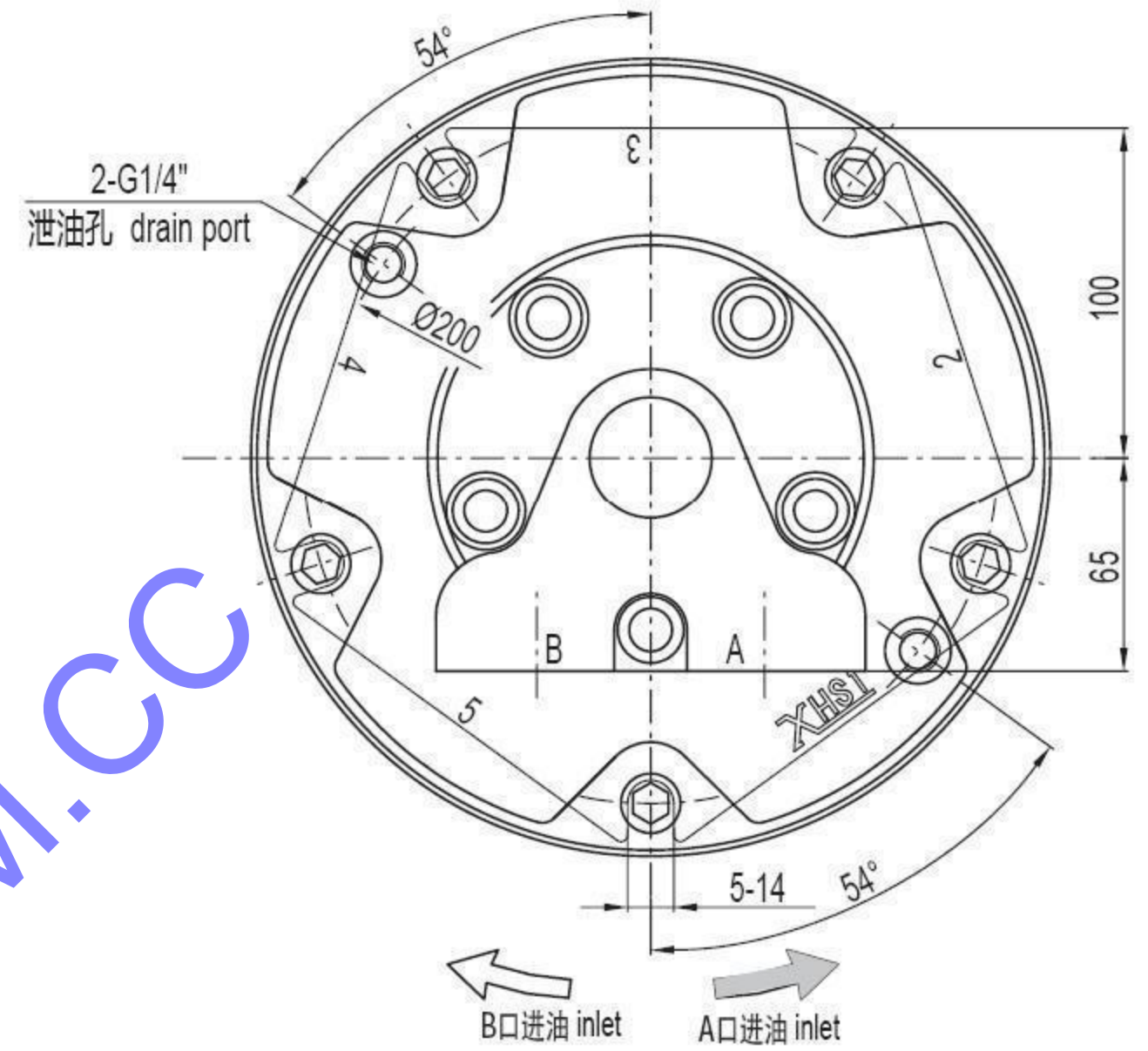
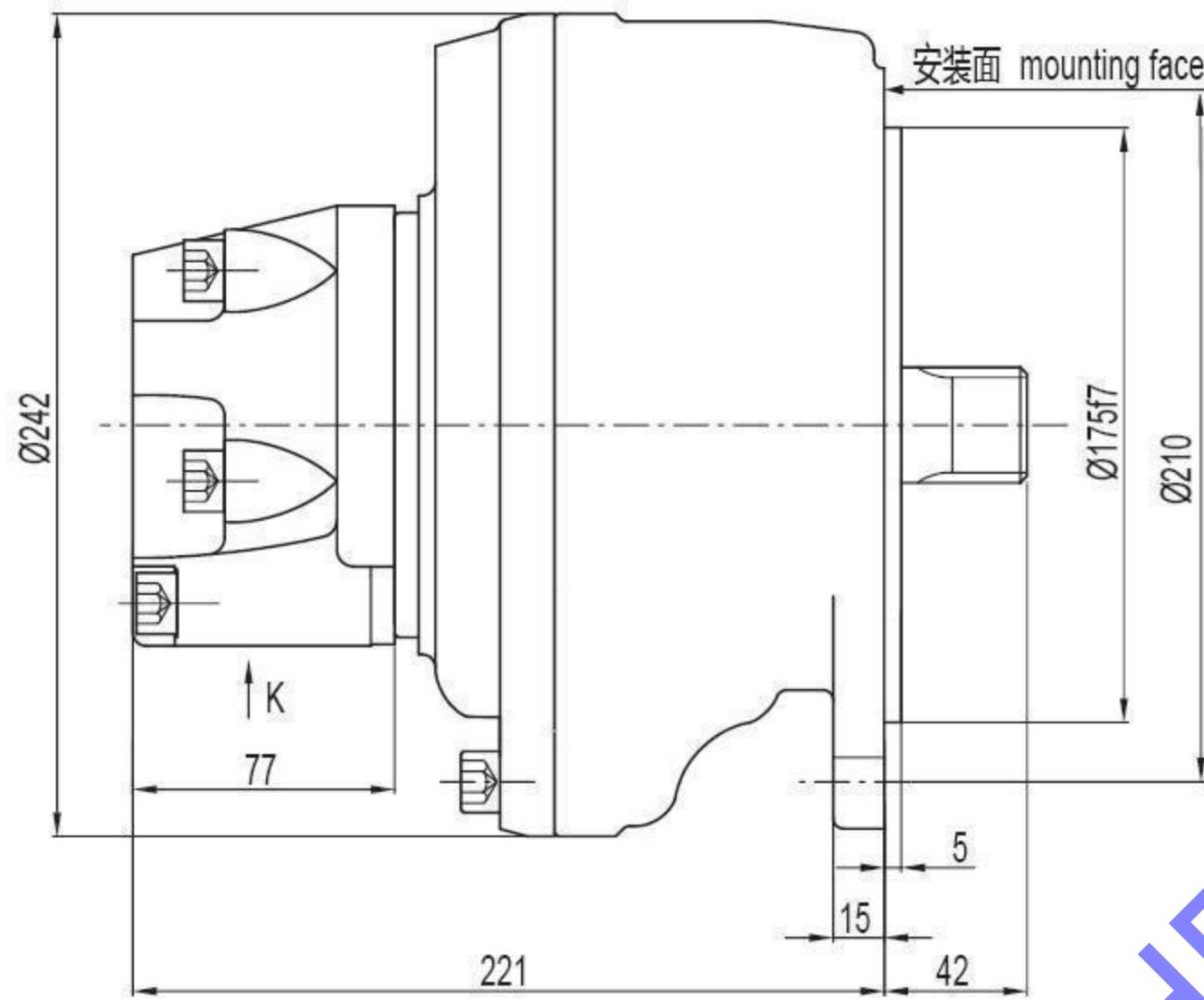


Parameters

Model	Displacement (ml/r)	Pressure(Mpa)		Torque(N.m)		Cont.Speed rang (r/min)	Max. Speed (r/min)	Weight (kg)
		Peak pressure	Cont. pressure	Rate torque	Theoric torque			
GM05-60	59	45	25	235	9.4	1~700	1000	22
GM05-75	74	42.5	25	295	11.8	1~700	1000	22
GM05-90	86	37.5	25	343	13.7	1~700	1000	22
GM05-110	115	40	25	458	18.3	1~650	900	22
GM05-130	129	37.5	25	513	20	1~650	900	22
GM05-150	151	32.5	25	600	24	1~650	900	22
GM05-170	166	32.5	25	660	26.4	1~600	800	22
GM05-200	191	28	25	760	30.4	1~600	800	22

Other popular name : **INM/XHS/AKS / - 1**

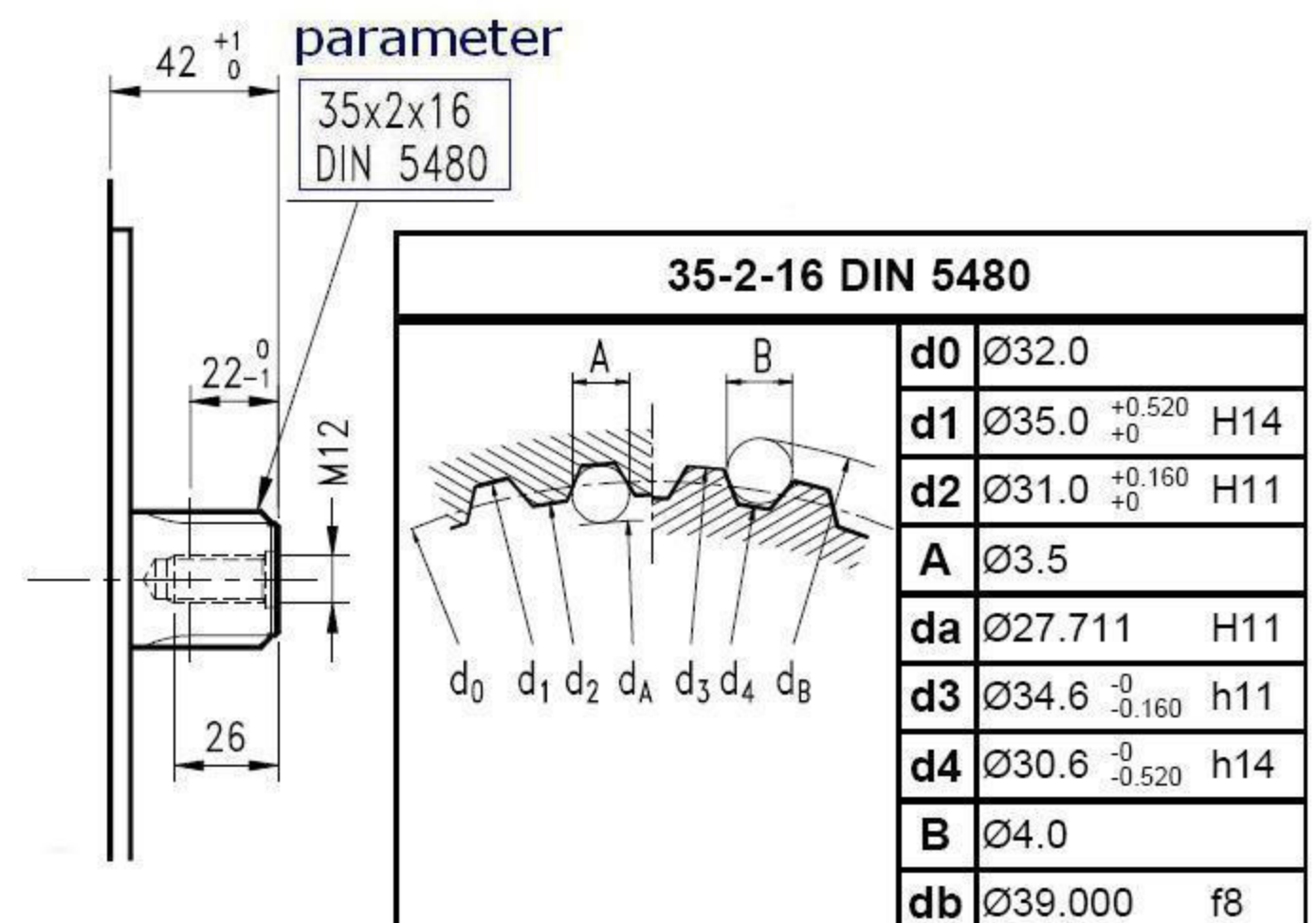
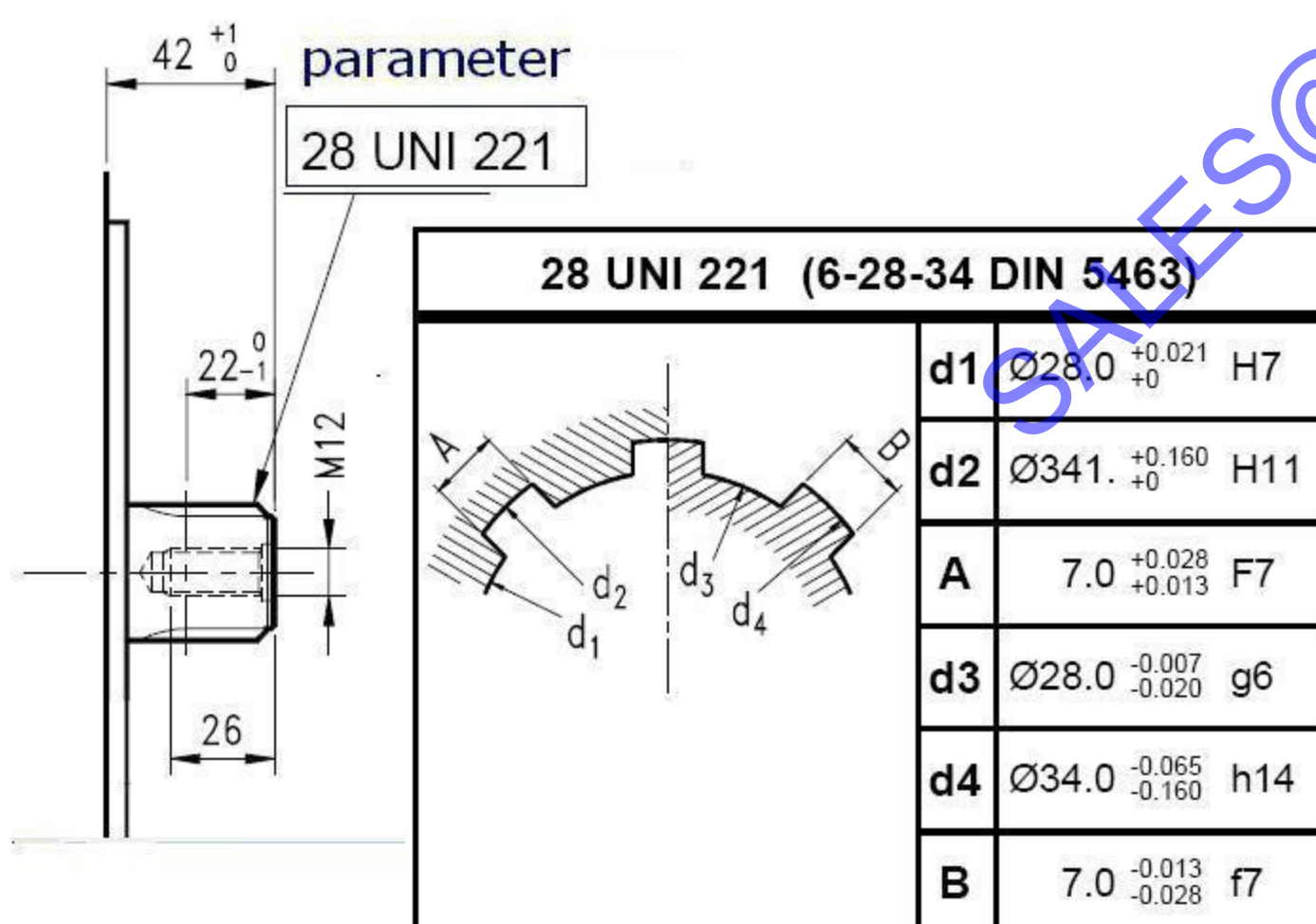
Installation



Shaft Selection

A Standard Shaft: Male splined shaft

A1 Shaft: Involute splined shaft



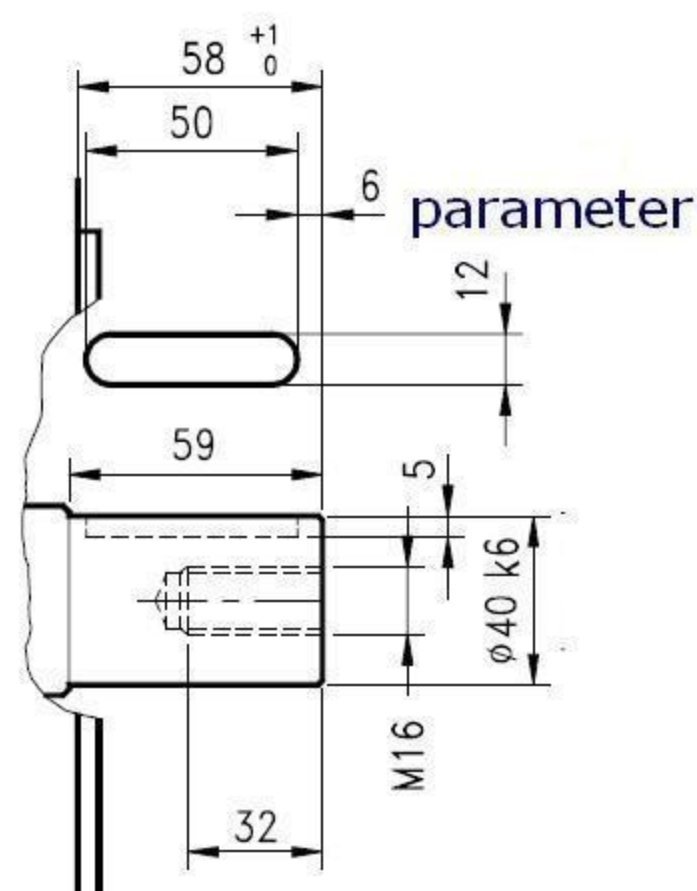
GM 1 Series Swivelling Cylinder Motor



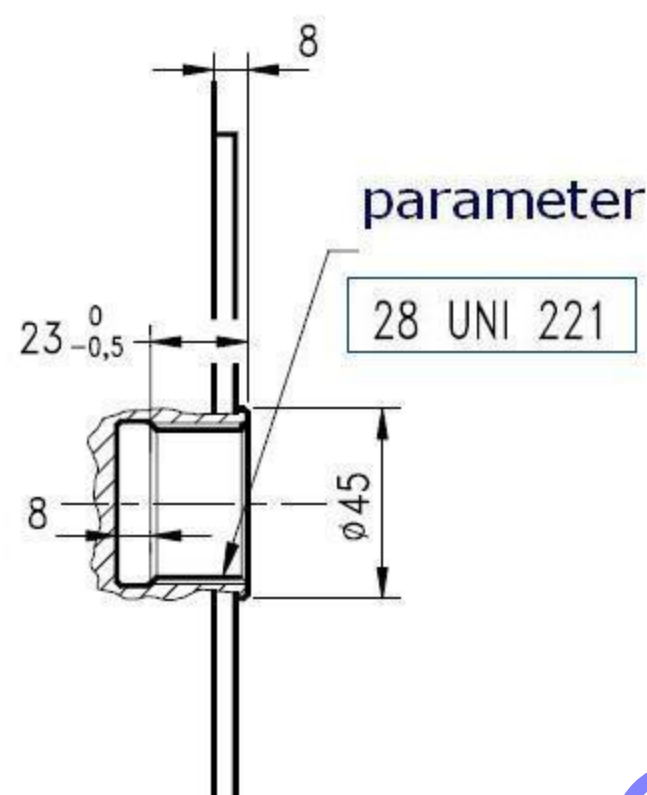
Other popular name : **INM/XHS/AKS / - 1**

Shaft Selection

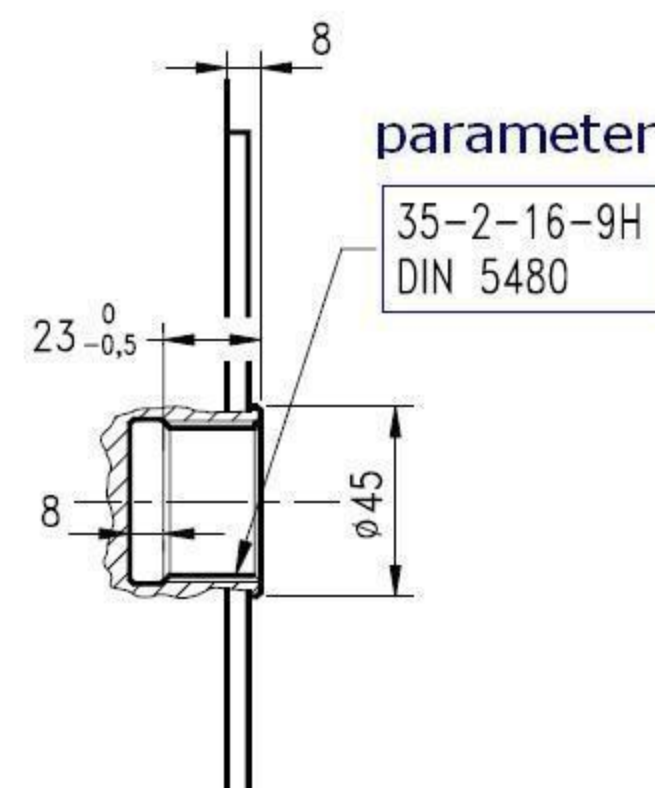
B Shaft:Cylindrical shaft



I Shaft:Female spline shaft

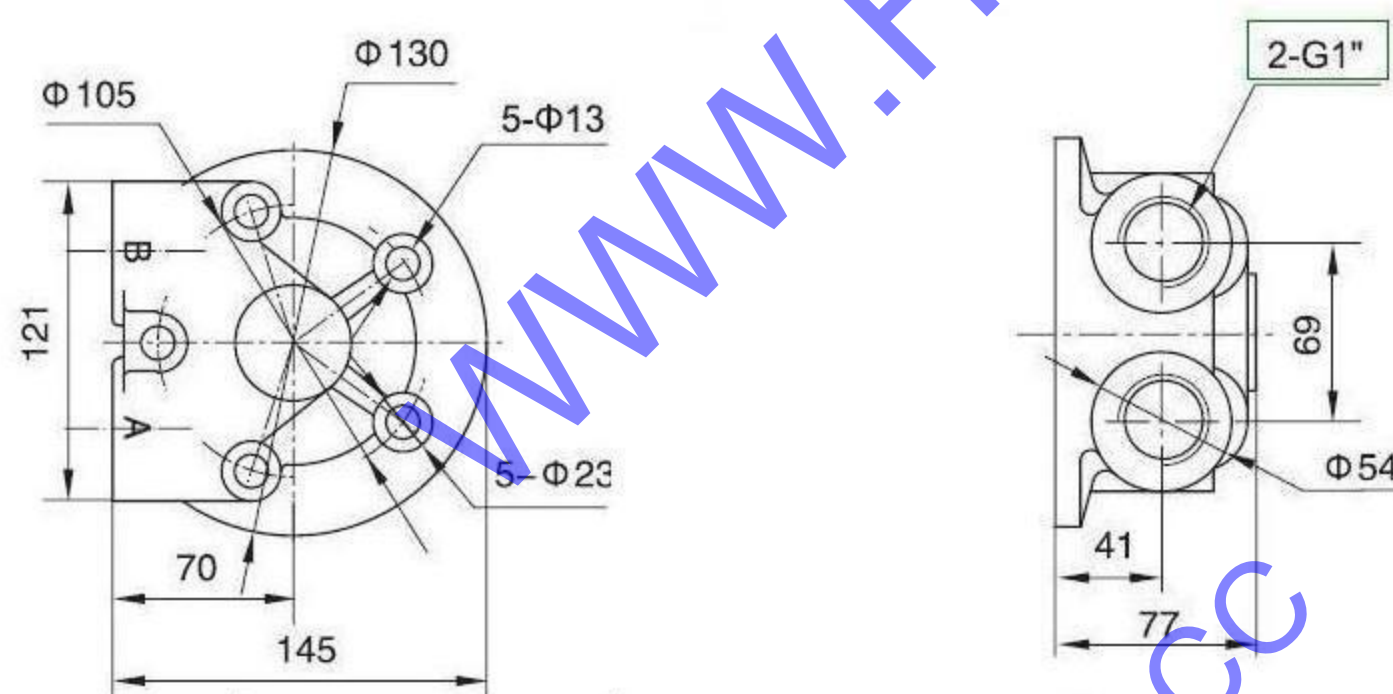


IA Shaft:Involute female spline shaft



Oil distributor

D40

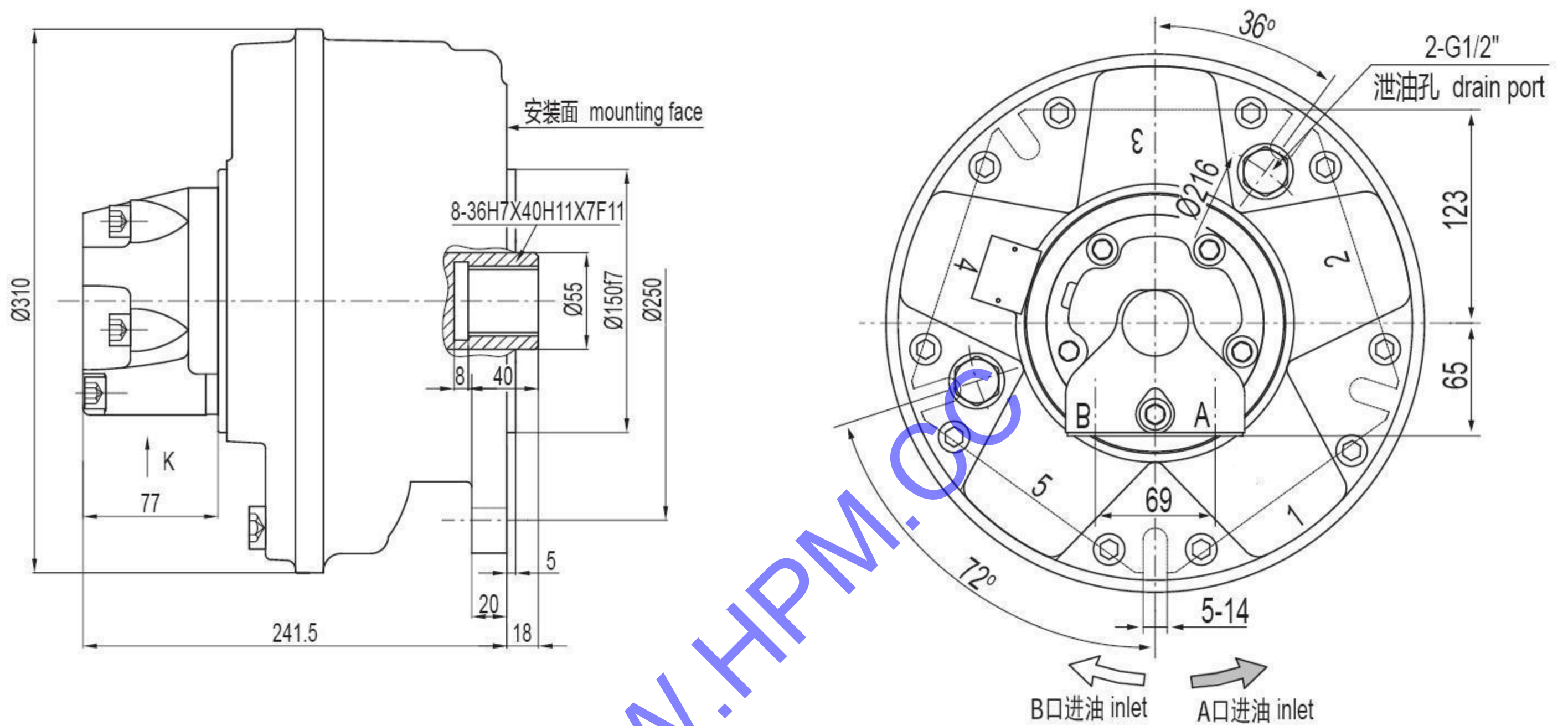


Parameters

Model	Displacement (ml/r)	Pressure(Mpa)		Torque(N.m)		Cont.Speed rang (r/min)	Max. Speed (r/min)	Weight (kg)
		Peak pressure	Cont. pressure	Rate torque	Theoric torque			
GM1-100	99	42.5	25	385	15.4	1-550	1000	30
GM1-150	154	40	25	600	24	1-550	1000	30
GM1-175	172	37.5	25	670	26.8	1-550	900	30
GM1-200	201	35	25	785	31.4	1-550	800	30
GM1-250	243	35	25	950	38	1-450	700	30
GM1-300	290	30	25	1130	45.2	1-350	650	30
GM1-320	314	28	25	1225	49	1-350	600	30

Other popular name : **INM/XHS/AKS / -2**

Installation

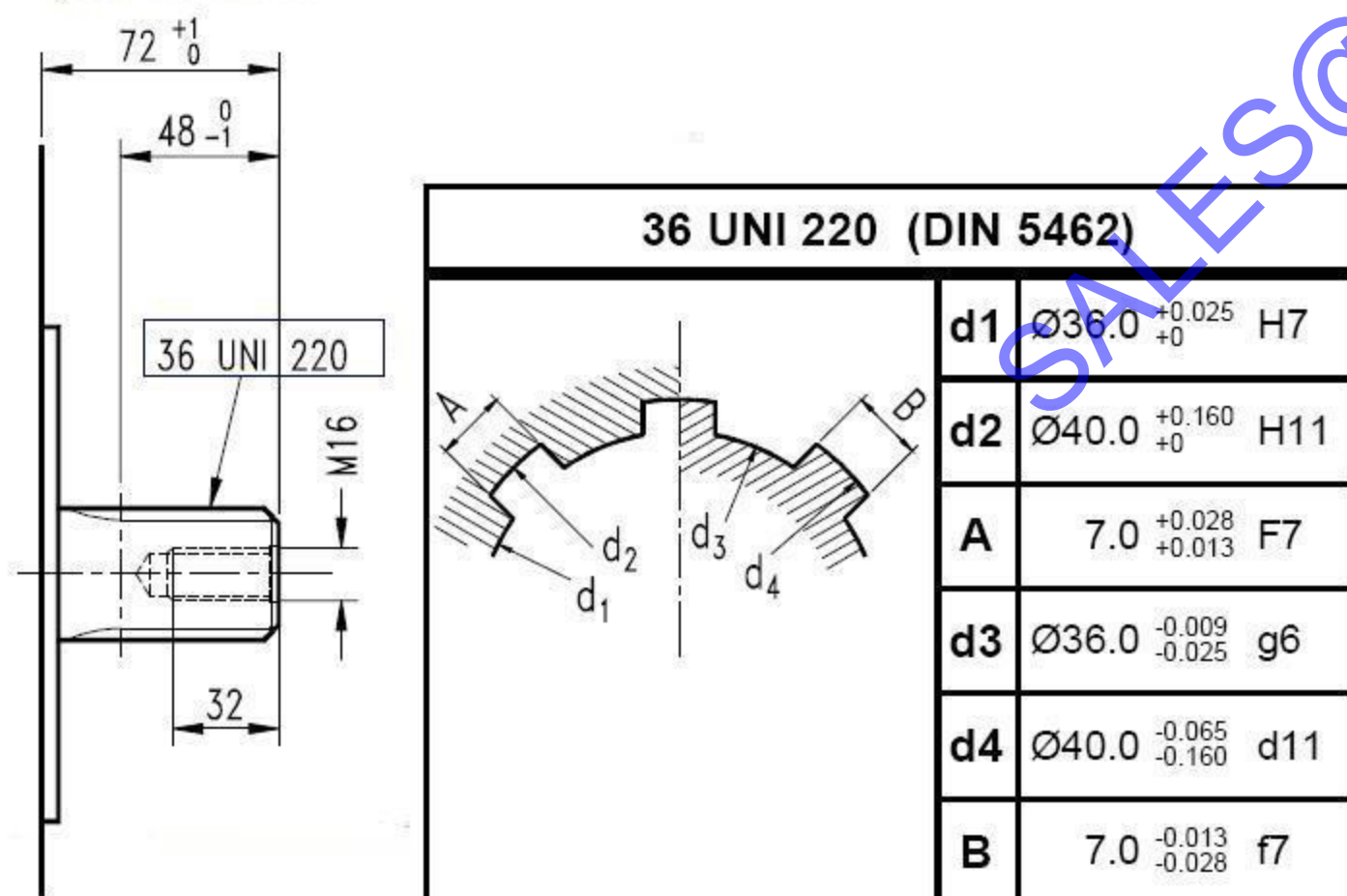


Shaft Selection

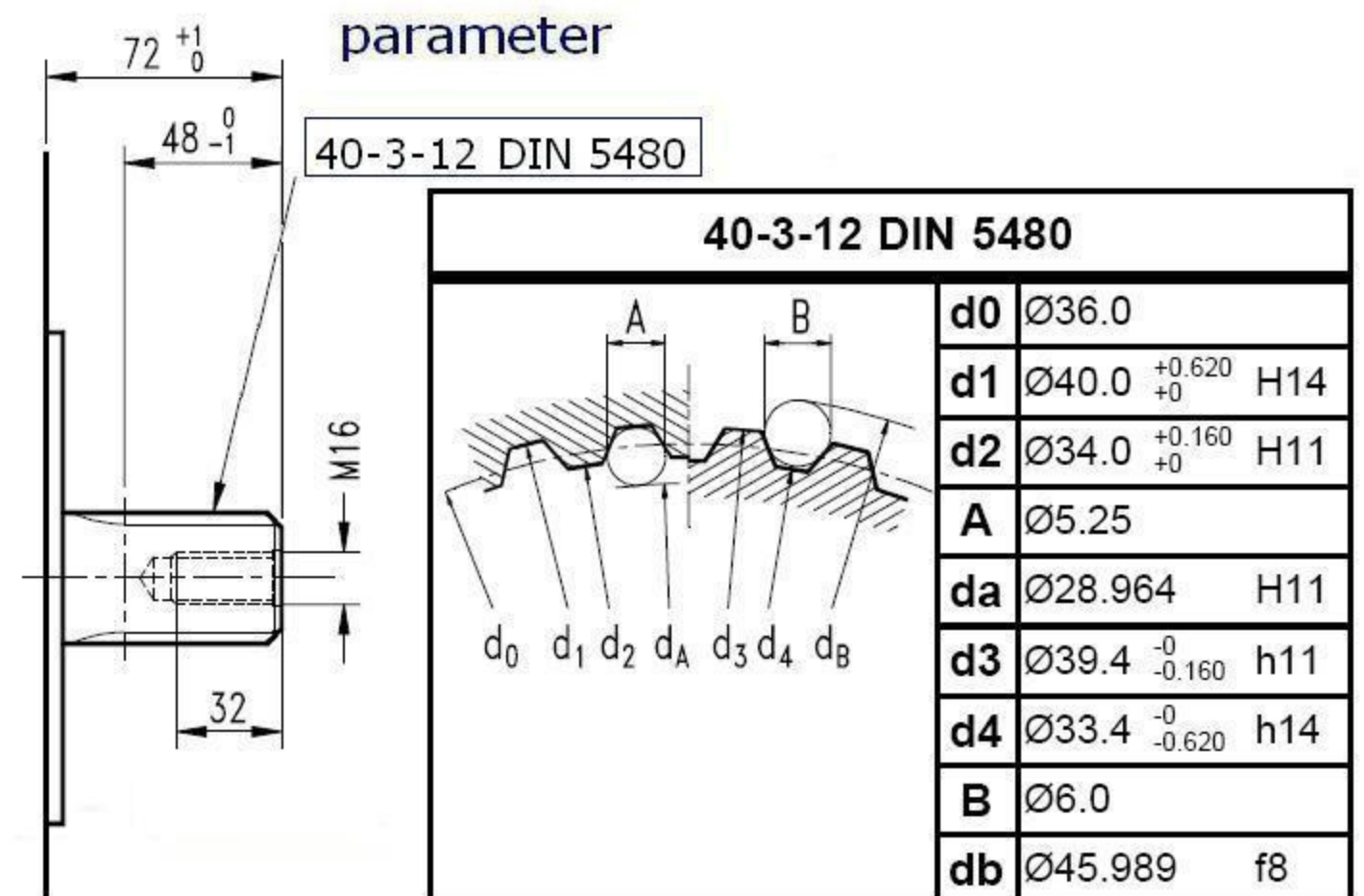
A Standard Shaft: Male splined shaft

A1 Shaft: Involute splined shaft

parameter



parameter



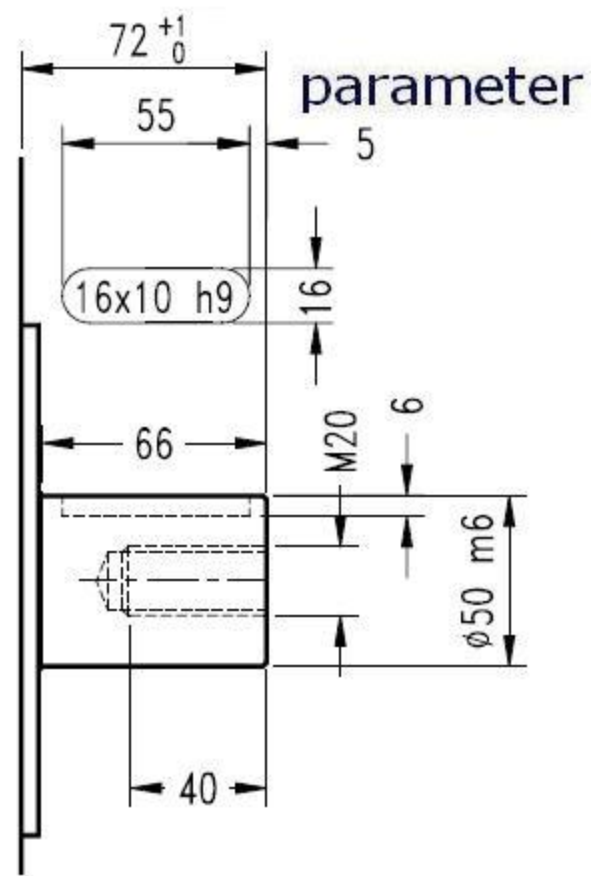
GM 2 Series Swivelling Cylinder Motor



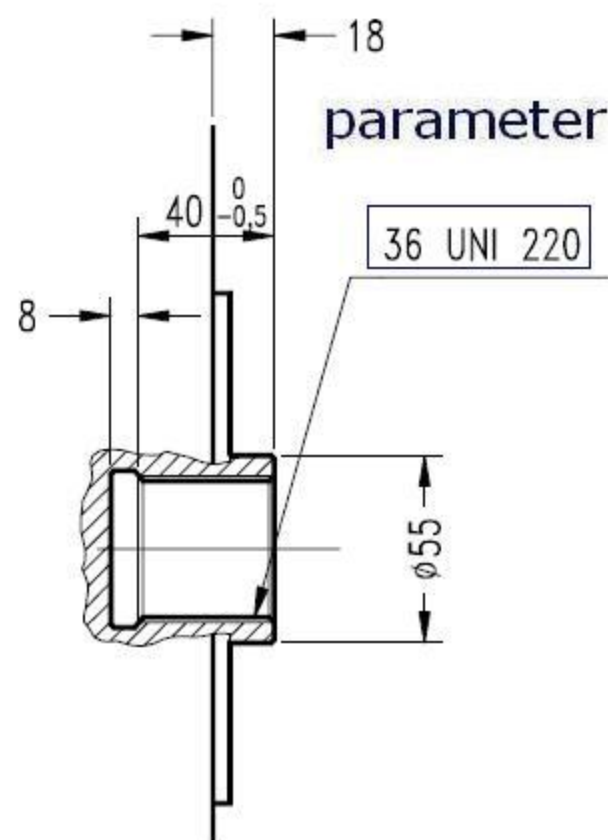
Other popular name : **INM/XHS/AKS / -2**

Shaft Selection

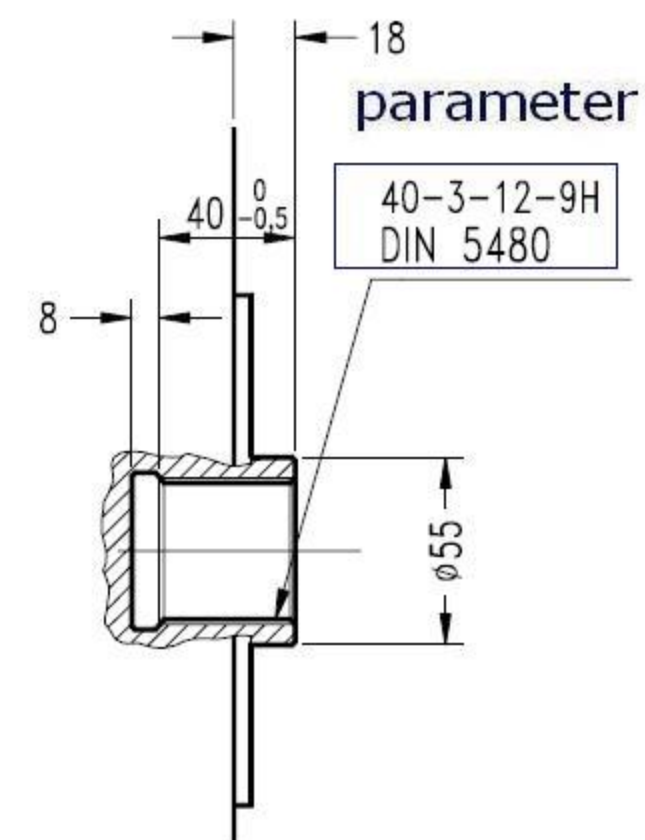
B Shaft:Cylindrical shaft



I Shaft:Female spline shaft

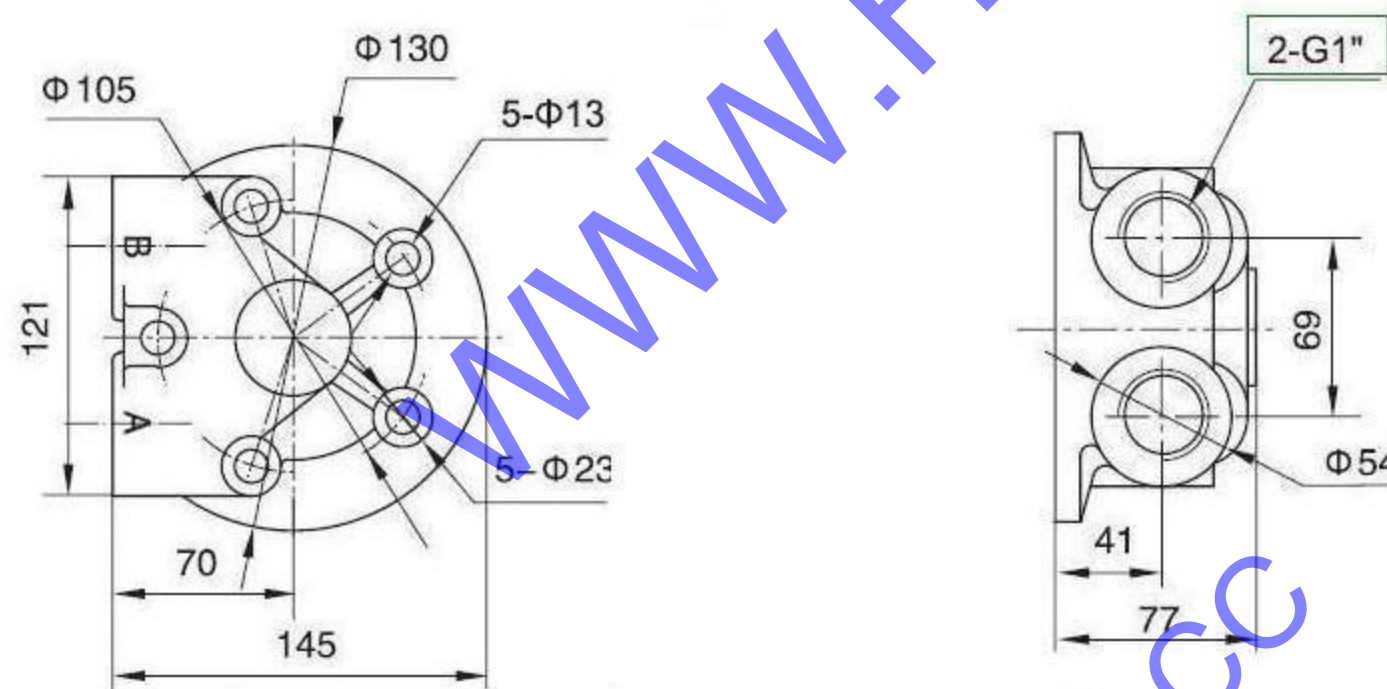


IA Shaft:Involute female spline shaft



Oil distributor

D40

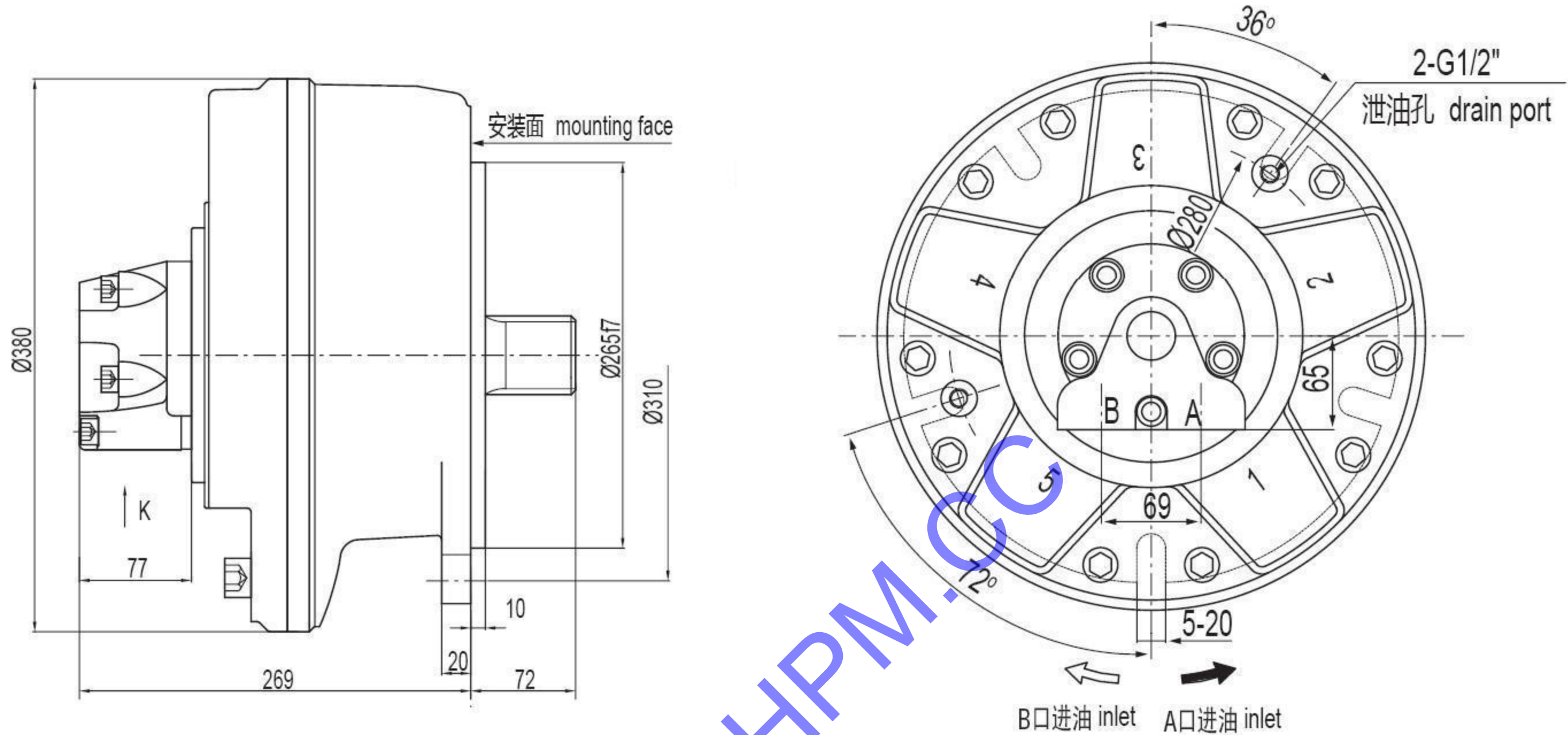


Parameters

Model	Displacement (ml/r)	Pressure(Mpa)		Torque(N.m)		Cont.Speed rang (r/min)	Max. Speed (r/min)	Weight (kg)
		Peak pressure	Cont. pressure	Rate torque	Theoric torque			
GM2-200	192	42.5	25	750	30	0.8-550	900	53
GM2-250	251	42.5	25	980	39.2	0.8-550	900	53
GM2-300	304	40	25	1188	47.5	0.8-500	800	53
GM2-350	347	37.5	25	1355	54.2	0.8-500	800	53
GM2-420	425	35	25	1658	66.3	0.8-450	750	53
GM2-500	493	35	25	1923	76.9	0.8-450	750	53
GM2-600	565	30	25	2208	88.3	0.8-450	700	53
GM2-630	623	28	25	2433	97.3	0.6-400	650	53

Other popular name : **INM/XHS/AKS / -3**

Installation



Shaft Selection

A Standard Shaft: Male splined shaft

46 UNI 221 (8-46-54 DIN 5463)	
d1	Ø46.0 ^{+0.030} / ₊₀ H7
d2	Ø54.0 ^{+0.190} / ₊₀ H11
A	9.0 ^{+0.028} / _{+0.013} F7
d3	Ø46.0 ^{-0.009} / _{-0.025} g6
d4	Ø54.0 ^{-0.100} / _{-0.290} d11
B	9.0 ^{-0.013} / _{-0.028} f7

A1 Shaft: Involute splined shaft

40-3-12 DIN 5480	
d0	Ø36.0
d1	Ø40.0 ^{+0.620} / ₊₀ H14
d2	Ø34.0 ^{+0.160} / ₊₀ H11
A	Ø5.25
da	Ø28.964 H11
d3	Ø39.4 ⁻⁰ / _{-0.160} h11
d4	Ø33.4 ⁻⁰ / _{-0.620} h14
B	Ø6.0
db	Ø45.989 f8

GM 3 Series Swivelling Cylinder Motor



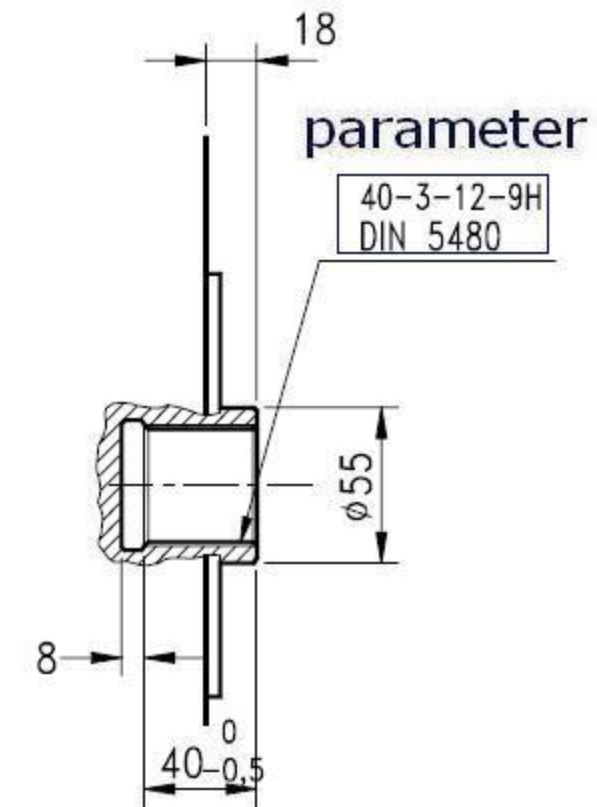
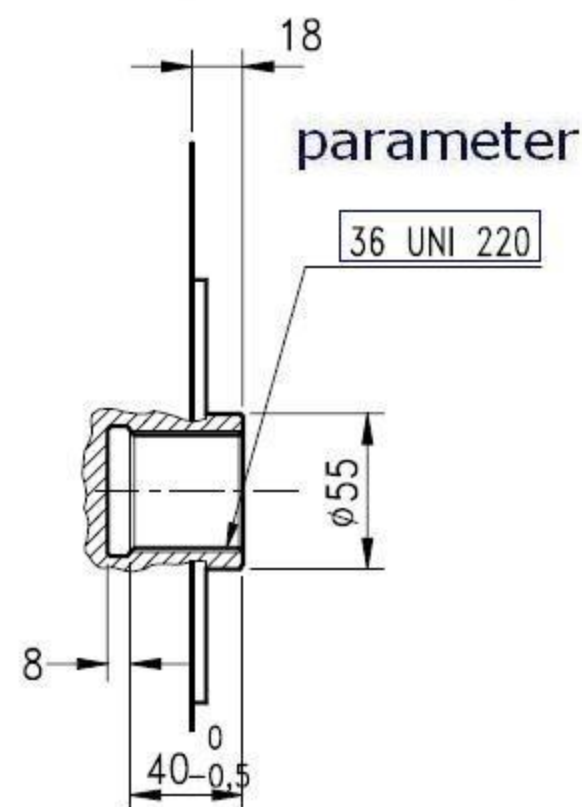
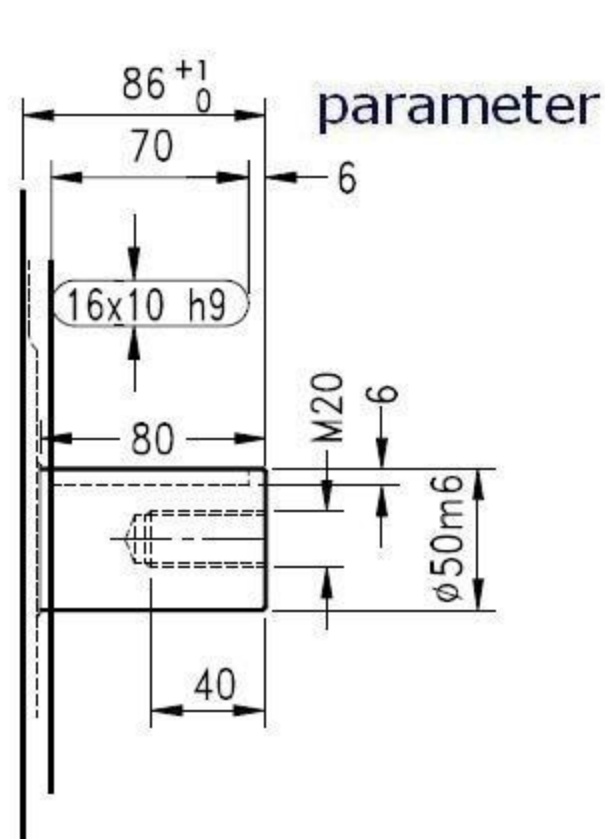
Other popular name : **INM/XHS/AKS / -3**

Shaft Selection

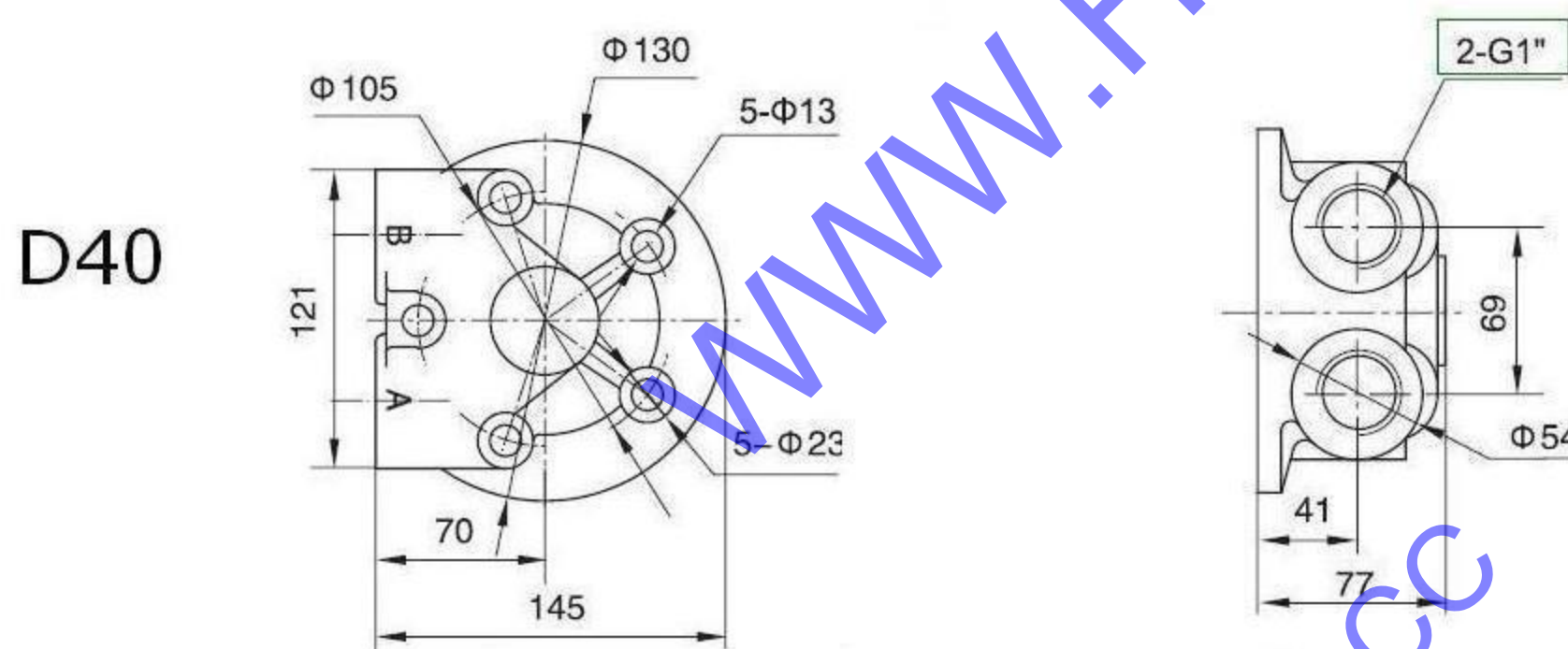
B Shaft:Cylindrical shaft

I Shaft:Female spline shaft

IA Shaft:Involute female spline shaft



Oil distributor



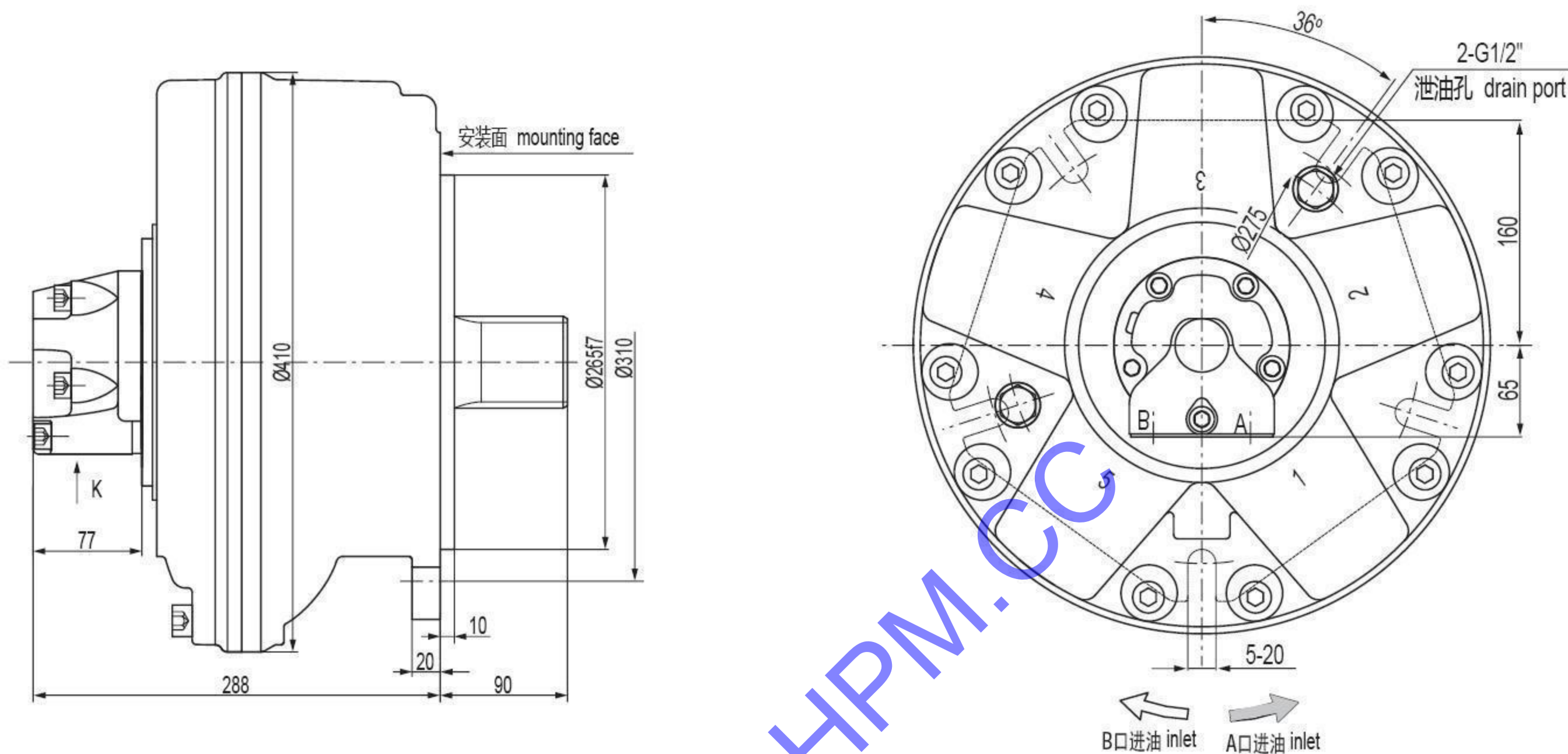
Parameters

Model	Displacement (ml/r)	Pressure(Mpa)		Torque(N.m)		Cont.Speed rang (r/min)	Max. Speed (r/min)	Weight (kg)
		Peak pressure	Cont. pressure	Rate torque	Theoric torque			
GM3-350	352	45	25	1401	54.9	0.6-525	700	85
GM3-425	426	42.5	25	1660	66.4	0.6-500	650	85
GM3-500	486	42.5	25	1895	75.8	0.6-450	600	85
GM3-600	595	40	25	2320	92.8	0.6-450	575	85
GM3-700	690	35	25	2700	108	0.6-400	525	85
GM3-800	792	35	25	3100	124	0.6-400	500	85
GM3-900	873	35	25	3400	136	0.6-350	450	85
GM3-1000	987	28	25	3850	154	0.6-300	400	85

GM 4 Series Swivelling Cylinder Motor

Other popular name : INM/XHS/AKS / - 4

Installation



Shaft Selection

A Standard Shaft: Male splined shaft

A1 Shaft: Involute splined shaft

parameter 56 UNI 221

56 UNI 221		
d1	Ø56.0	^{+0.030} / ₊₀ H7
d2	Ø65.0	^{+0.190} / ₊₀ H11
A	10.0	^{+0.028} / _{+0.013} F7
d3	Ø56.0	^{-0.010} / _{-0.029} g6
d4	Ø65.0	^{-0.100} / _{-0.190} d11
B	10.0	^{-0.013} / _{-0.028} f7

parameter 65-3-20 DIN 5480

65-3-20 DIN 5480		
d0	Ø60.0	
d1	Ø65.0	^{+0.740} / ₊₀ H14
d2	Ø59.0	^{+0.190} / ₊₀ H11
A	Ø5.25	
da	Ø54.101	H11
B	Ø6.0	
d3	Ø64.4	⁰ / _{-0.190} h11
d4	Ø58.4	⁰ / _{-0.740} h14

GM 4 Series Swivelling Cylinder Motor



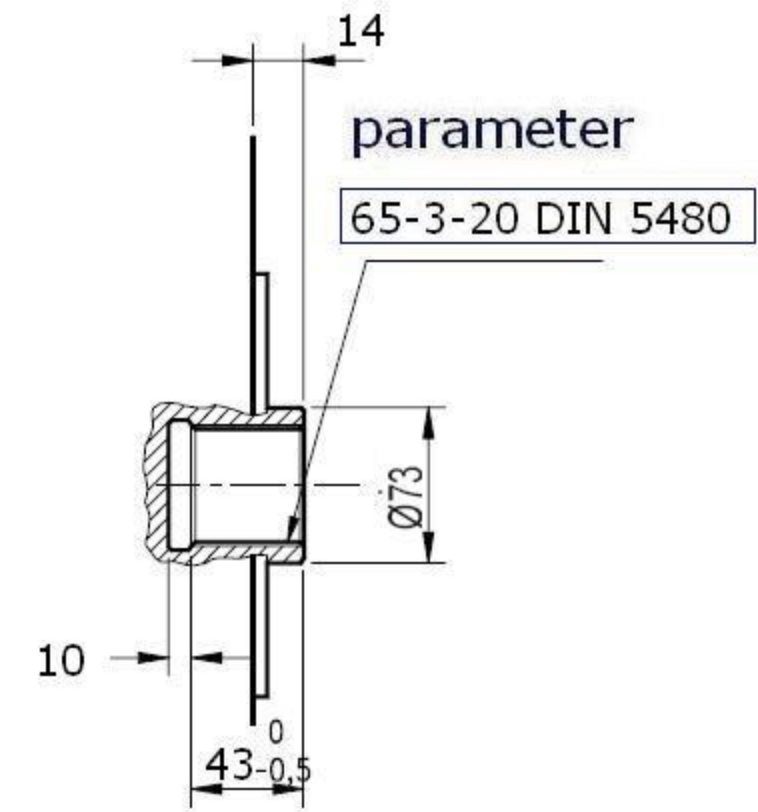
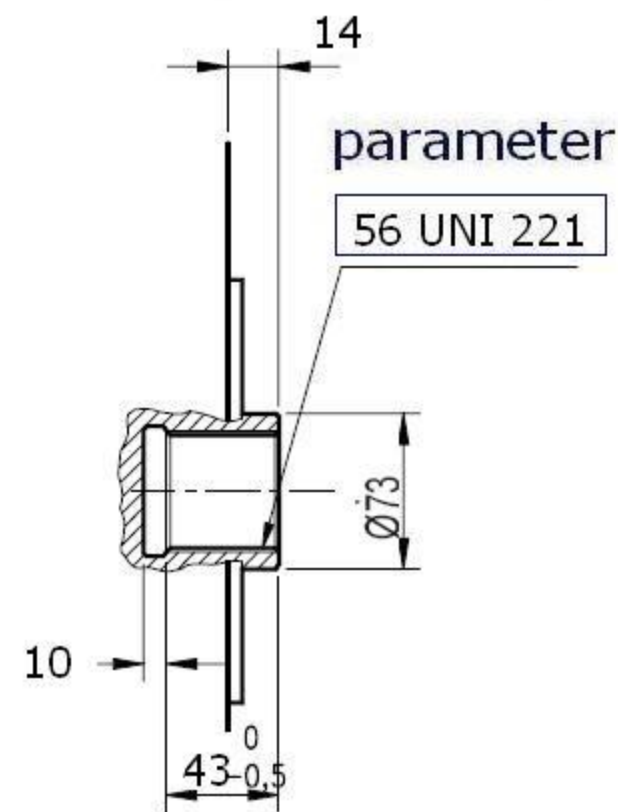
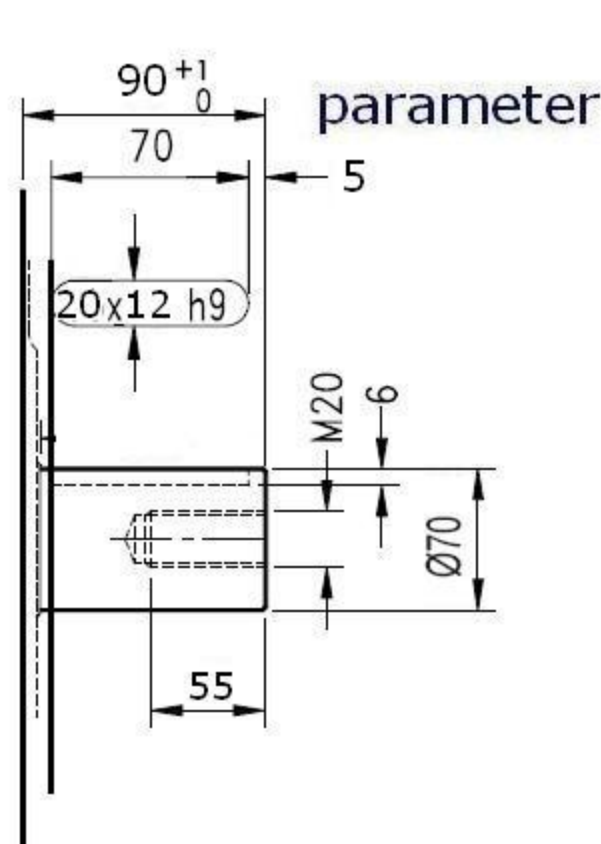
Other popular name : **INM/XHS/AKS / - 4**

Shaft Selection

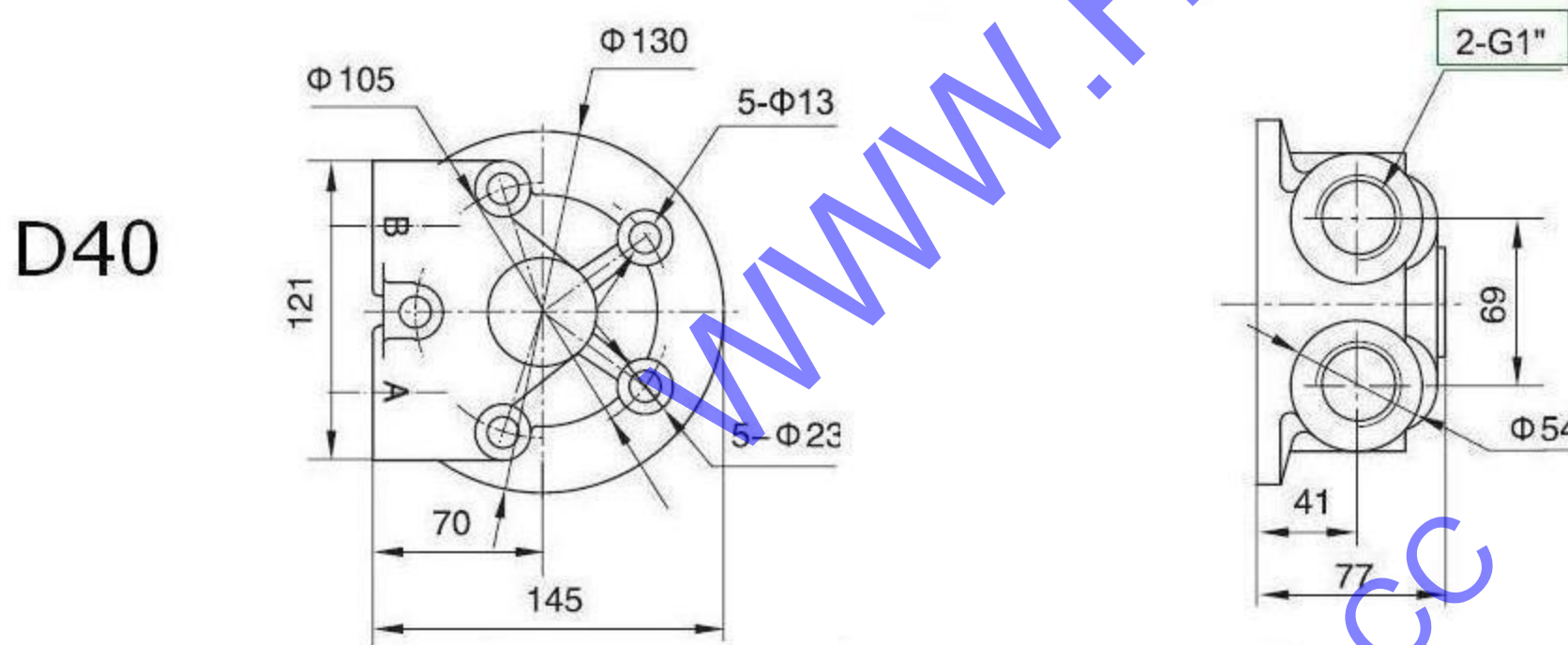
B Shaft:Cylindrical shaft

I Shaft:Female spline shaft

IA Shaft:Involute female spline shaft



Oil distributor



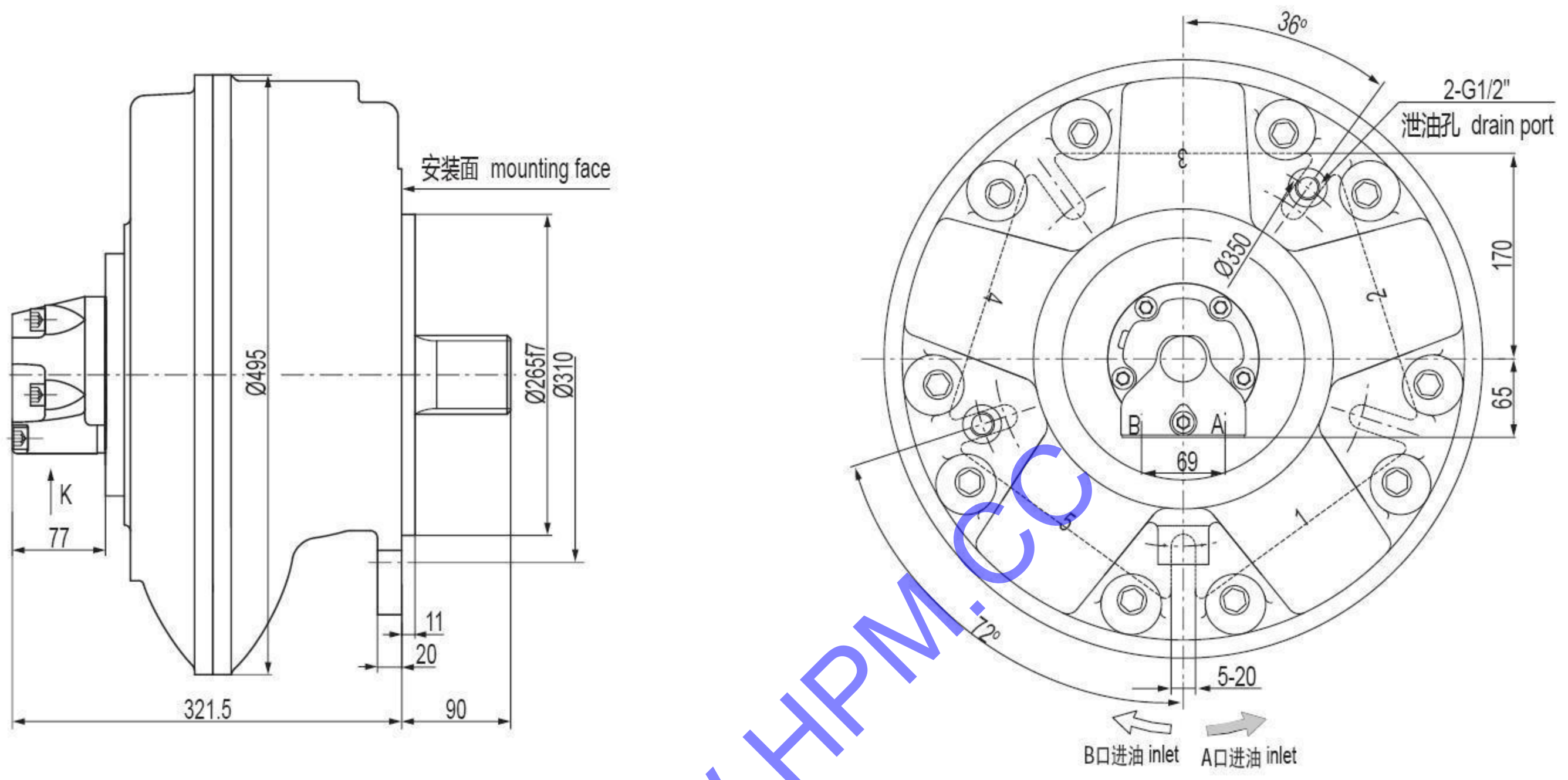
Parameters

Model	Displacement (ml/r)	Pressure(Mpa)		Torque(N.m)		Cont.Speed rang (r/min)	Max. Speed (r/min)	Weight (kg)
		Peak pressure	Cont. pressure	Rate torque	Theoric torque			
GM4-400	402	45	25	1600	62.7	0.5-450	600	120
GM4-500	503	45	25	2002	78.5	0.5-425	600	120
GM4-600	616	40	25	2403	96.1	0.5-400	550	120
GM4-800	793	40	25	3100	124	0.5-350	550	120
GM4-900	904	37.5	25	3525	141	0.5-325	450	120
GM4-1000	1022	35	25	4000	160	0.5-300	400	120
GM4-1100	1116	35	25	4350	174	0.5-275	400	120
GM4-1250	1247	28	25	4694	195	0.5-250	400	120
GM4-1300	1316	28	25	5125	205	0.5-225	350	120

GM 5 Series Swivelling Cylinder Motor

Other popular name : INM/XHS/AKS / - 5

Installation



Shaft Selection

A Standard Shaft: Male splined shaft

A1 Shaft: Involute splined shaft

parameter

56 UNI 221		
d1	Ø56.0	^{+0.030} / ₊₀ H7
d2	Ø65.0	^{+0.190} / ₊₀ H11
A	10.0	^{+0.028} / _{+0.013} F7
d3	Ø56.0	^{-0.010} / _{-0.029} g6
d4	Ø65.0	^{-0.100} / _{-0.190} d11
B	10.0	^{-0.013} / _{-0.028} f7

parameter

65-3-20 DIN 5480		
d0	Ø60.0	
d1	Ø65.0	^{+0.740} / ₊₀ H14
d2	Ø59.0	^{+0.190} / ₊₀ H11
A	Ø5.25	
da	Ø54.101	H11
B	Ø6.0	
d3	Ø64.4	⁰ / _{-0.190} h11
db	Ø70.999	f8
d4	Ø58.4	⁰ / _{-0.740} h14

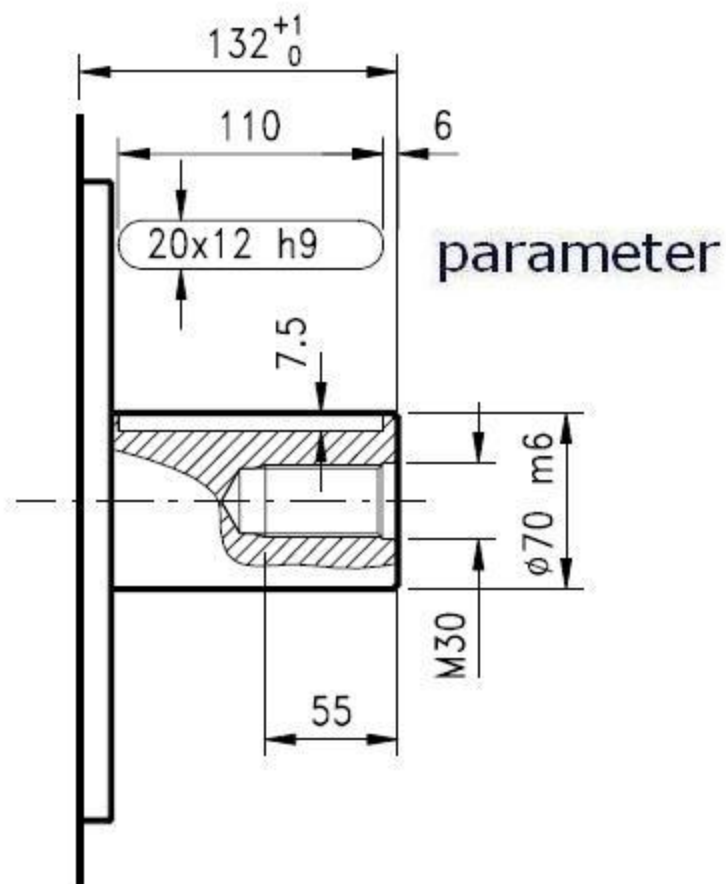
GM 5 Series Swivelling Cylinder Motor



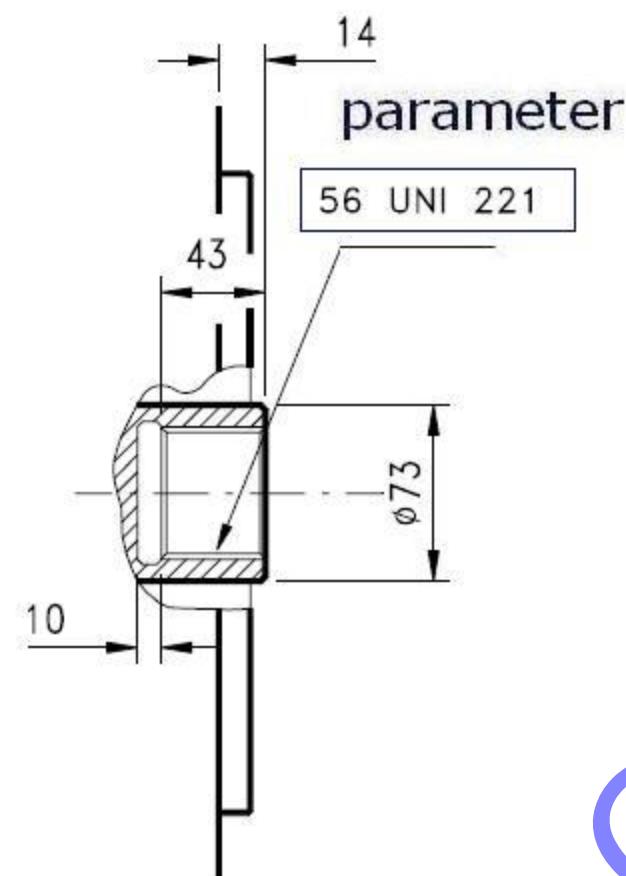
Other popular name : **INM/XHS/AKS / - 5**

Shaft Selection

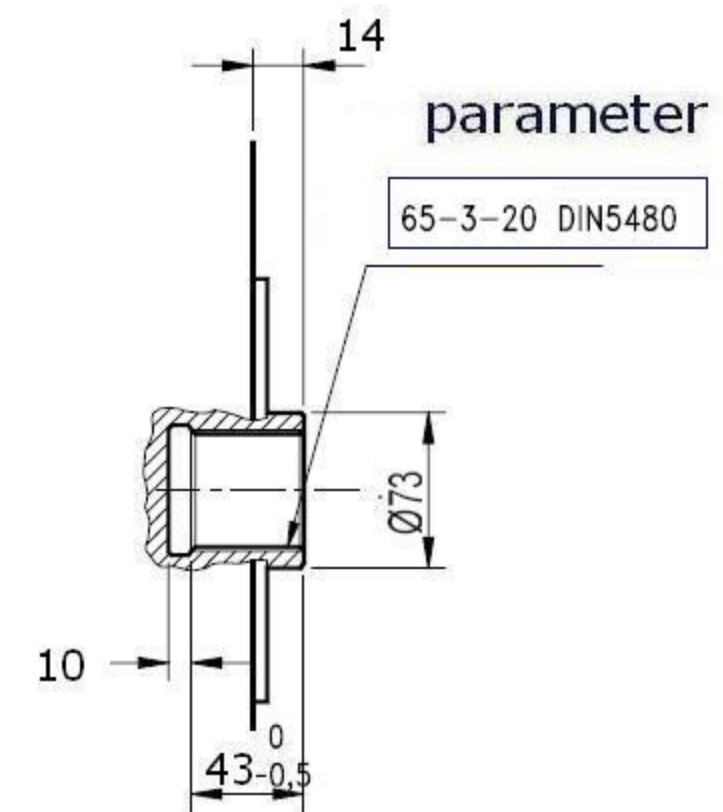
B Shaft:Cylindrical shaft



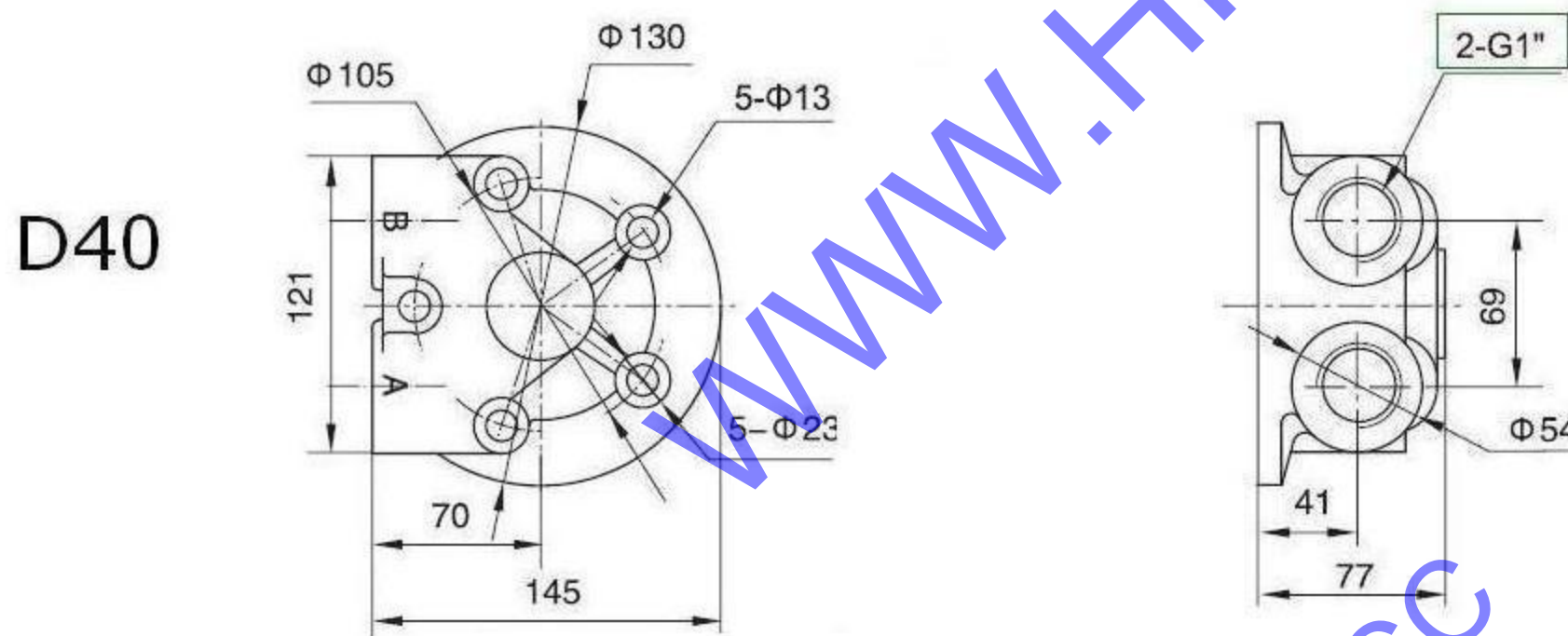
I Shaft:Female spline shaft



IA Shaft:Involute female spline shaft



Oil distributor

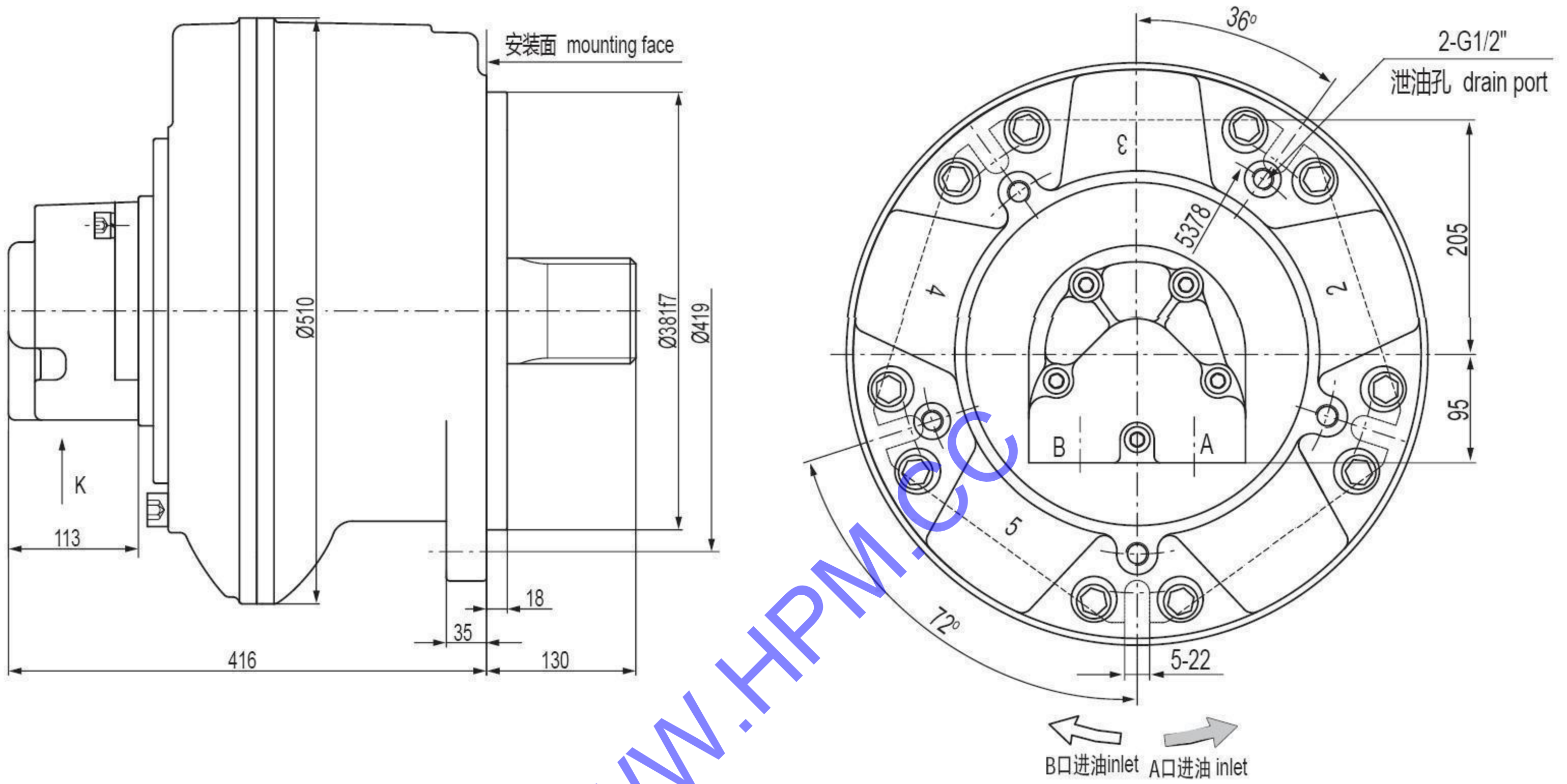


Parameters

Model	Displacement (ml/r)	Pressure(Mpa)		Torque(N.m)		Cont.Speed rang (r/min)	Max. Speed (r/min)	Weight (kg)
		Peak pressure	Cont. pressure	Rate torque	Theoric torque			
GM5-525	526	45	25	2094	82.2	0.4-350	500	168
GM5-650	659	45	25	2623	103	0.4-350	500	168
GM5-800	807	42.5	25	3150	126	0.4-320	500	168
GM5-1000	1039	42.5	25	4000	162	0.4-320	450	168
GM5-1200	1185	40	25	4600	185	0.4-300	400	168
GM5-1300	1340	40	25	5220	209	0.4-300	400	168
GM5-1450	1462	37.5	25	5700	228	0.4-300	350	168
GM5-1600	1634	37.5	25	6300	254	0.4-270	350	168
GM5-1800	1816	35	25	7055	283	0.4-250	300	168
GM5-2000	2007	35	25	7820	313	0.4-200	250	168

Other popular name : **INM/XHS/AKS / - 6**

Installation

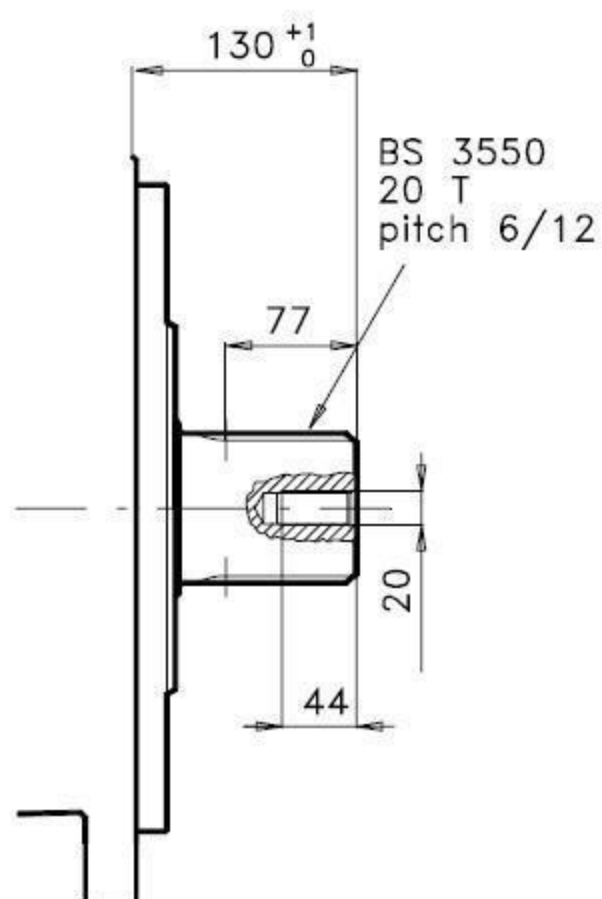


Shaft Selection

A Shaft: Male splined shaft

A1 Shaft: Involute splined shaft

parameter



DIN	80-3-25 DIN 5480	65-3-20 DIN 5480	BS3550 6/12 Pitch
	d0 Ø75.0	Ø60.0	A Ø88.0 ^{-0.047} / _{-0.17}
	d1 Ø80.0 ^{+0.740} / ₊₀ H14	Ø65.0 ^{+0.740} / ₊₀ H14	B Ø84.6
	d2 Ø74.0 ^{+0.190} / ₊₀ H11	Ø59.0 ^{+0.190} / ₊₀ H11	C Ø80.0 ^{-0.480} / _{-0.070}
	A Ø5.25	Ø5.25	D Ø97.0 ^{-0.082} / _{-0.030}
	da Ø68.9 ^{+0.740} / ₊₀ H9	Ø54.1 ^{+0.190} / ₊₀ H11	E Ø8.12
	d3 Ø79.4 ⁻⁰ / _{-0.190} h11	Ø64.4 ⁻⁰ / _{-0.190} h11	
	d4 Ø73.4 ⁻⁰ / _{-0.740} h14	Ø58.4 ⁻⁰ / _{-0.740} h14	
	B Ø6.0	Ø6.0	
	db Ø85.9 ^{-0.036} / _{-0.090} f8	Ø70.9 ^{-0.030} / _{-0.076} f8	

GM 6 Series Swivelling Cylinder Motor

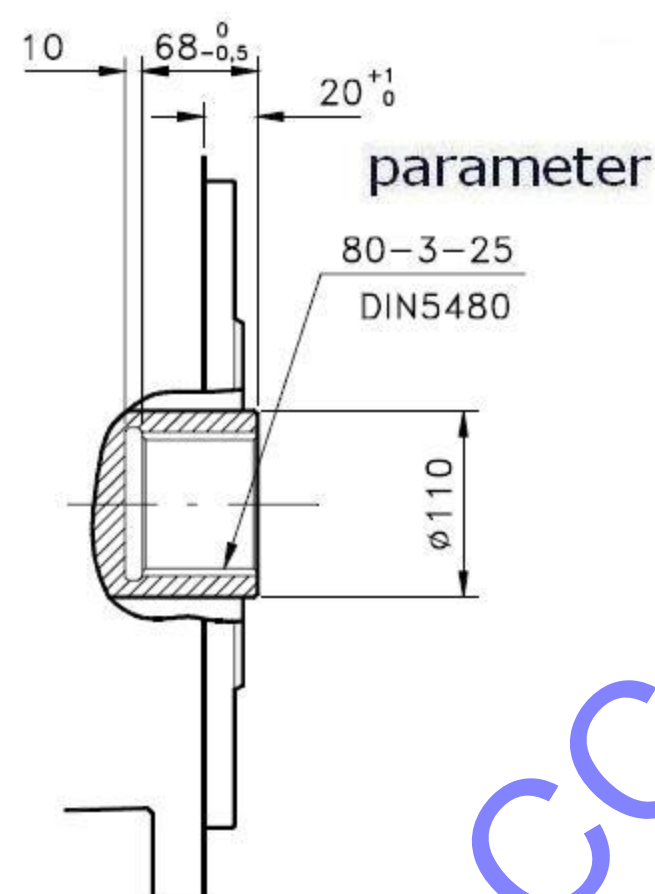
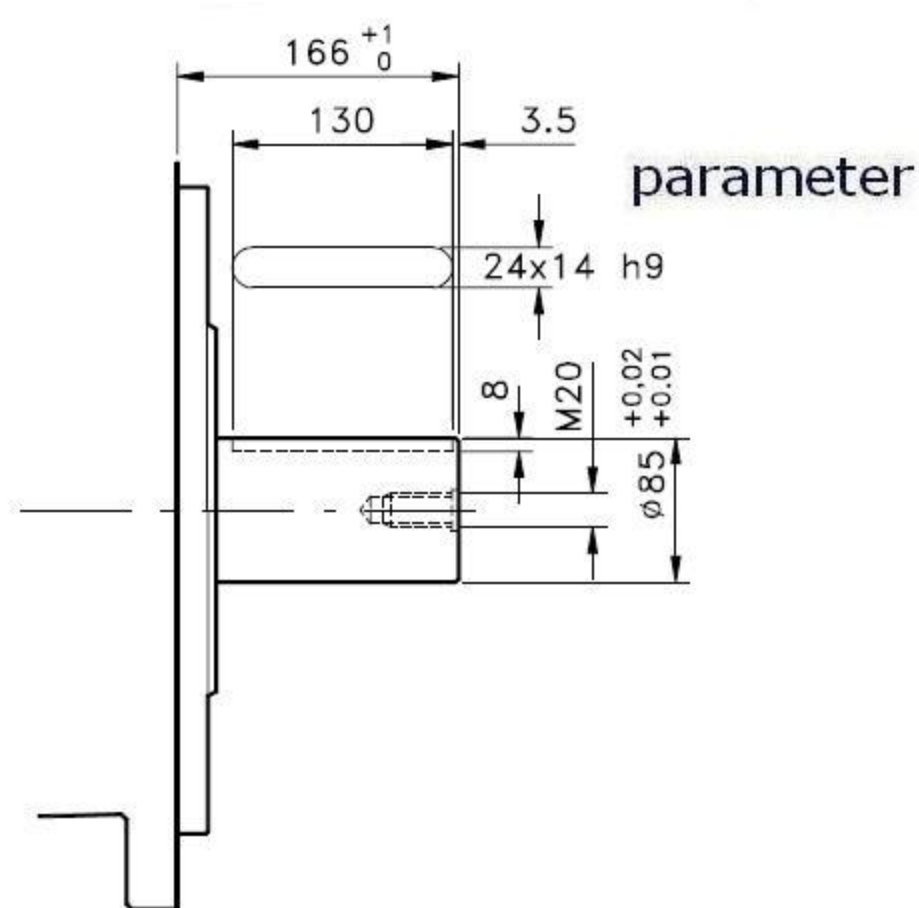


Other popular name : **INM/XHS/AKS / - 6**

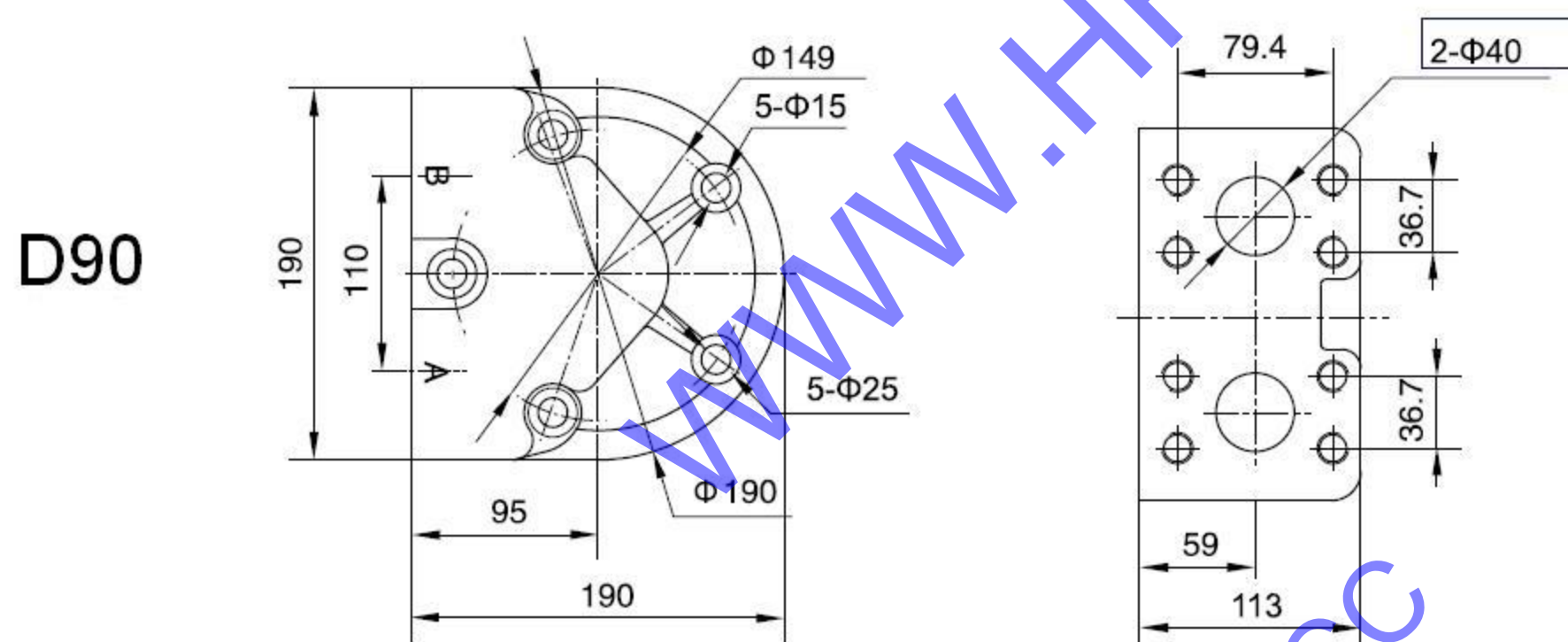
Shaft Selection

B Shaft:Cylindrical shaft

I Shaft:Female spline shaft



Oil distributor



Parameters

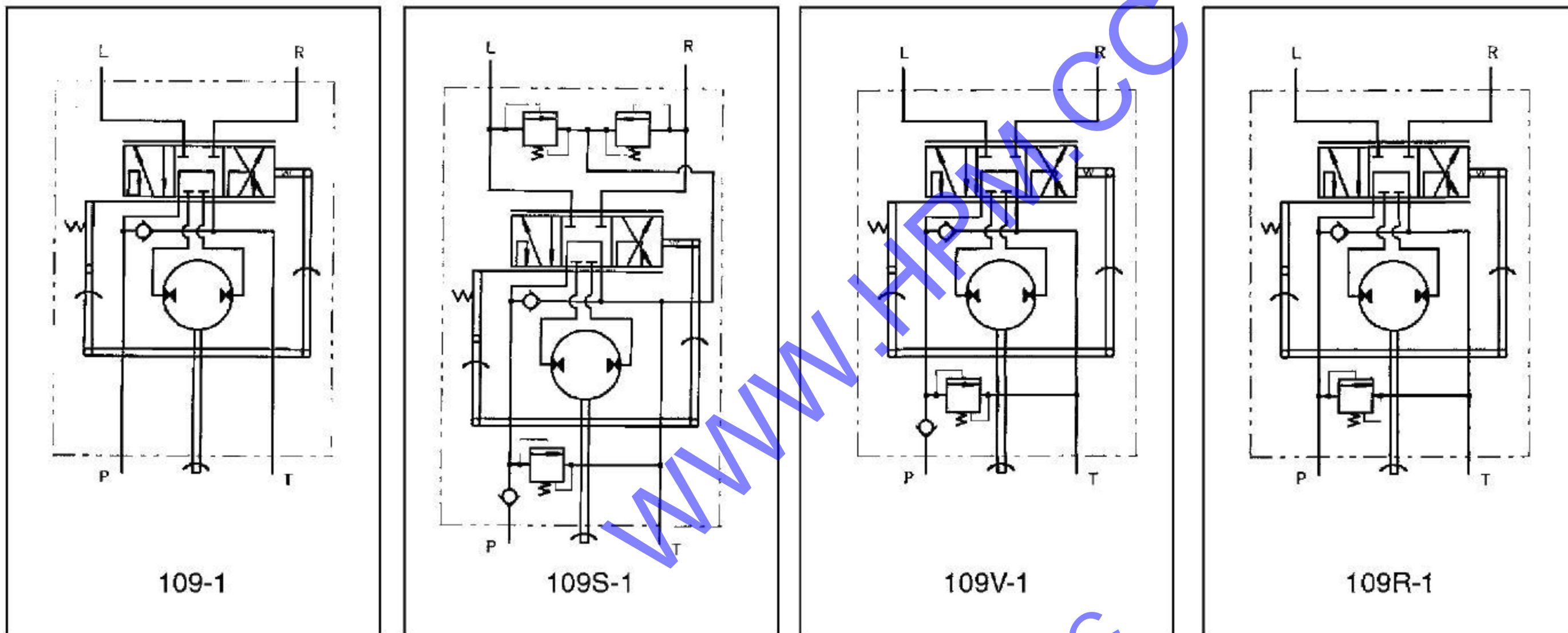
Model	Displacement (ml/r)	Pressure(Mpa)		Torque(N.m)		Cont.Speed rang (r/min)	Max. Speed (r/min)	Weight (kg)
		Peak pressure	Cont. pressure	Rate torque	Theoric torque			
GM6-1700	1690	40	25	6600	260	0.4-250	400	280
GM6-2100	2127	35	25	8300	328	0.4-220	350	280
GM6-2500	2513	35	25	9800	390	0.4-200	300	280
GM6-3000	3041	30	25	11875	470	0.4-170	250	280

109(S) Series hydraulic steering units

Parameters

HPM Model	Danfoss Model	Displacement (ml/r)	Rated Flow(L/min)	Rated Pressure (Mpa)	Steering Torque (N.m)	Length
109(S)-1-20	OSPM 20 ON	20	3-20	12.5	<1.8	87
109(S)-1-32	OSPM 32 ON	32		12.5	<1.8	92
109(S)-1-40	OSPM 40 ON	40		12.5	<1.8	96
109(S)-1-50	OSPM 50 ON	50		12.5	<1.8	100
109(S)-1-63	OSPM 63 ON	63		12.5	<1.8	105
109(S)-1-80	OSPM 80 ON	80		12.5	<1.8	113

Function



Order Code

109	Pos.1	-	Pos.2	-	Pos.3	-	Pos.4	-	Pos.5
-----	-------	---	-------	---	-------	---	-------	---	-------

Pos.1 - Integrated Valve Parameter

Omit: Without valve
 S: With Relief Valve, Check Valve, Shock Valves
 V: With Relief Valve, Check Valve
 R: With Relief Valve

Pos.2 - Function Code

1: 1: Open Center Non-Reaction

Pos.3 - Displacement mL/r

20, 32, 40, 50, 63, 80

Pos.4 - Integrated Valve Parameter

Relief Valve Pressure Settings(MPa): 06, 07, 08, 09, 10

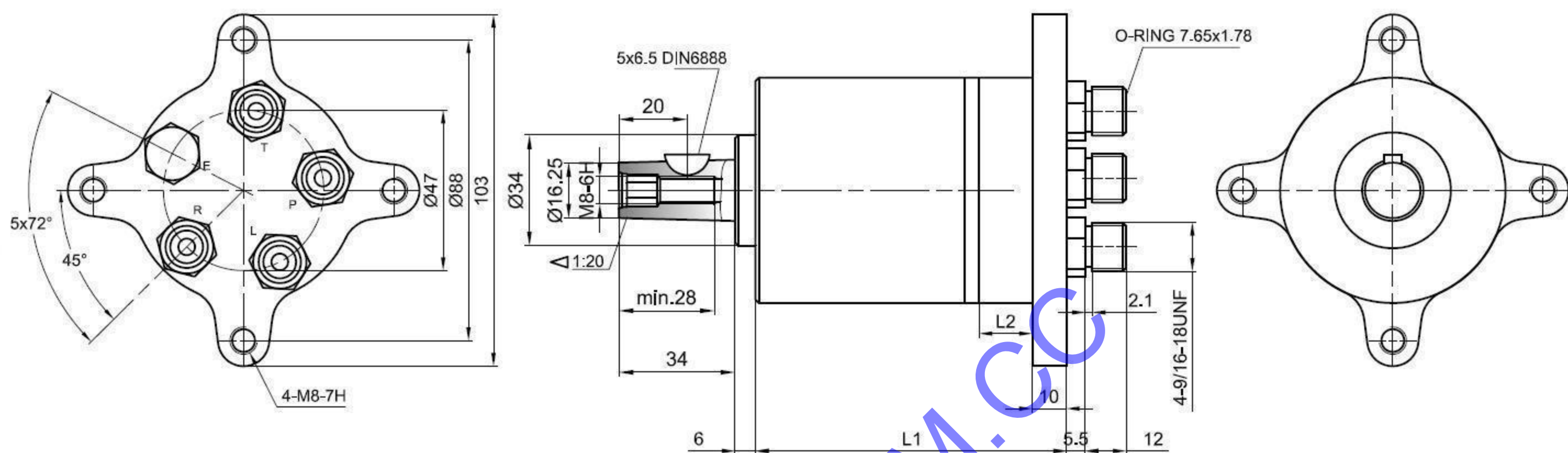
Pos.5 - Mounting Data

- A: Tapered 1:20, Key 5x6.5, Ports: 9/16-18UNF;
- B: Tapered 1:12, With 11/16 In-40 Serrations and 5/8-18UNF, Ports: 9/16-18UNF;
- C: DIN 5482 B17x14, Ports: 9/16-18UNF ;
- D: Tapered 1:20, Key 5x6.5, Ports: M14x1.5;
- E: Tapered 1:12, With 11/16 In-40 Serrations and 5/8-18UNF, Ports: M14x1.5;
- F: DIN 5482 B17x14, Ports: M14x1.5.

Hydraulic steering units

Drawing example

109S-1-x-x-A



101(S) Series hydraulic steering units

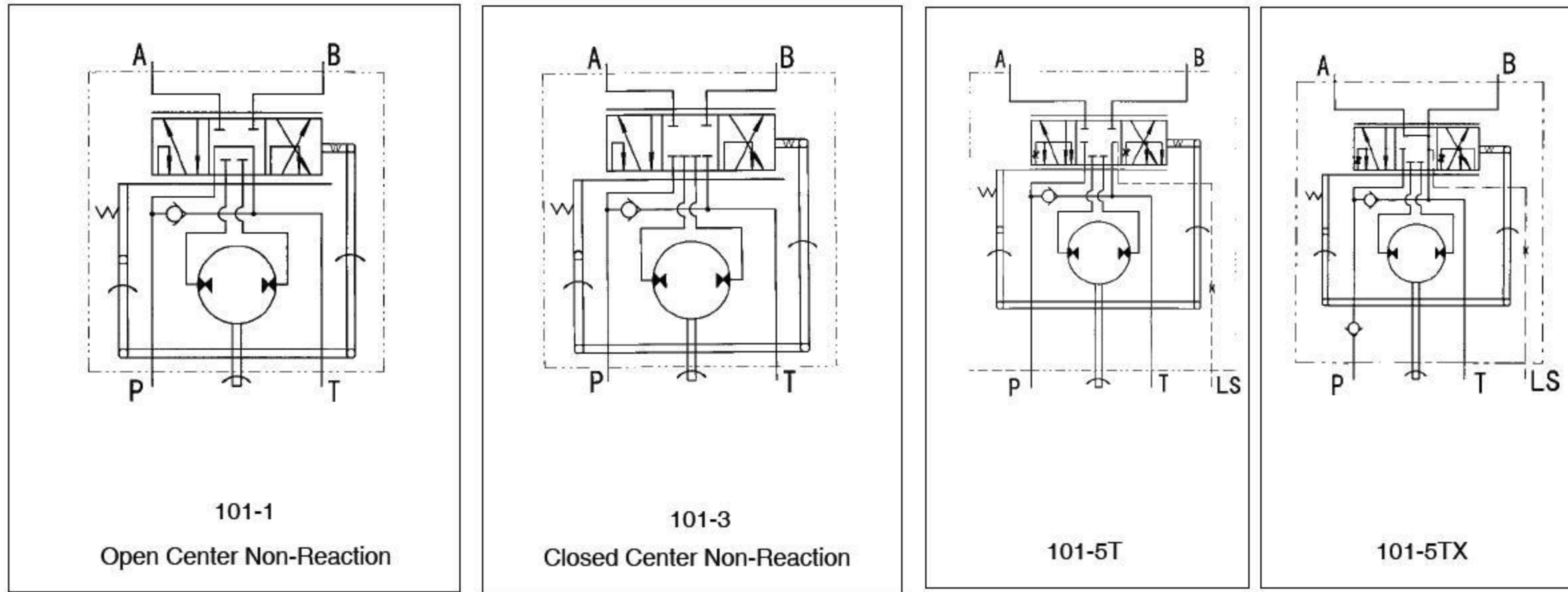
101-Replace with Danfoss OSPB Series (without build-in valve function)
101S-Replace with Danfoss OSPC Series (with build-in valve function)

101(Danfoss OSPB)

Parameters

HPM Model--Danfoss Model Open center non-reaction	HPM Model--Danfoss Model Closed center non-reaction	HPM Model--Danfoss Model Loading sensing	Displace ment	Rated Flow	Max.input Pressure	Max.Cont.Back Pressure	Length	Weight		
101-1-50	OSPB 50 ON	101-3-50 OSPB 50 CN	101-5T(X)-50	OSPB 50 LS	50	5	17.5	2.5	131	5.7
101-1-63	OSPB 63 ON	101-3-63 OSPB 63 CN	101-5T(X)-63	OSPB 63 LS	63	6	17.5	2.5	133	5.76
101-1-80	OSPB 80 ON	101-3-80 OSPB 80 CN	101-5T(X)-80	OSPB 80 LS	80	8	17.5	2.5	135	5.84
101-1-100	OSPB 100 ON	101-3-100 OSPB 100 CN	101-5T(X)-100	OSPB 100 LS	100	10	17.5	2.5	138	5.91
101-1-125	OSPB 125 ON	101-3-125 OSPB 125 CN	101-5T(X)-125	OSPB 125 LS	125	13	17.5	2.5	141	6.05
101-1-160	OSPB 160 ON	101-3-160 OSPB 160 CN	101-5T(X)-160	OSPB 160 LS	160	16	17.5	2.5	146	6.25
101-1-200	OSPB 200 ON	101-3-200 OSPB 200 CN	101-5T(X)-200	OSPB 200 LS	200	20	17.5	2.5	151	6.45
101-1-250	OSPB 250 ON	101-3-250 OSPB 250 CN	101-5T(X)-250	OSPB 250 LS	250	25	17.5	2.5	157	6.68
101-1-280	OSPB 280 ON	101-3-280 OSPB 280 CN	101-5T(X)-280	OSPB 280 LS	280	28	17.5	2.5	162	6.86
101-1-315	OSPB 315 ON	101-3-315 OSPB 315 CN	101-5T(X)-315	OSPB 315 LS	315	32	17.5	2.5	167	7.06
101-1-400	OSPB 400 ON	101-3-400 OSPB 400 CN	101-5T(X)-400	OSPB 400 LS	400	40	17.5	2.5	177	7.45

Function



Order Code

	Pos.1	Pos.2	Pos.3
101	-	*	-

Pos.1	-	Function Code
-------	---	---------------

1:Open Center Non-Reaction 2:Open Center Reaction
 3:Closed Center Non-Reaction 5 T :Load Sensing Type Pipe Mounting
 5TX :Load Sensing Type Pipe Mounting

(X: When the 101-5TX series SCU is in neutral position, both of its left and right cavity are connected with T port.)

Pos.2	-	Displacement mL/r
-------	---	-------------------

50, 63, 80, 100, 125, 160, 200, 250, 280, 315, 400

Pos.3	-	Ports Code
-------	---	------------

A B C D E U G Q M F I N

Ports and Mounting

Code	Ports P, T, A, B	Column Mounting C	Column Mounting V	Post LS	Ports LL, EL	
A	M20x1.5	M10	M12	M12x1.5		
B	M20x1.5 O-ring			M12x1.5 O-ring		
C	M18x1.5			M12x1.5		
D	M18x1.5 O-ring			M12x1.5 O-ring		
E	G1/2			G1/4		
U	G1/2 O-ring	M10x1	M10x1	M10x1 O-ring		
M	3/4-16UNF O-ring	M12	M10	7/16-20UNF O-ring		
F		3/8-16 UNC				3/8-24 UNF
I		M10				
N		M10x1.25				
W	φ 18.5	M10	M12	M12x1.5		
H	φ 18.5	M10	M10	M12x1.5		

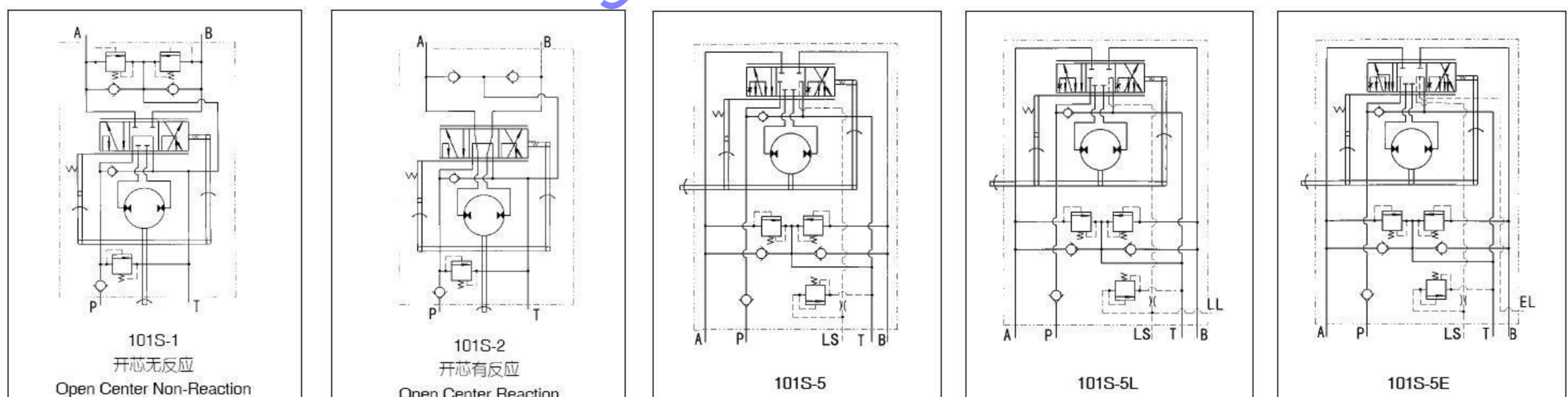
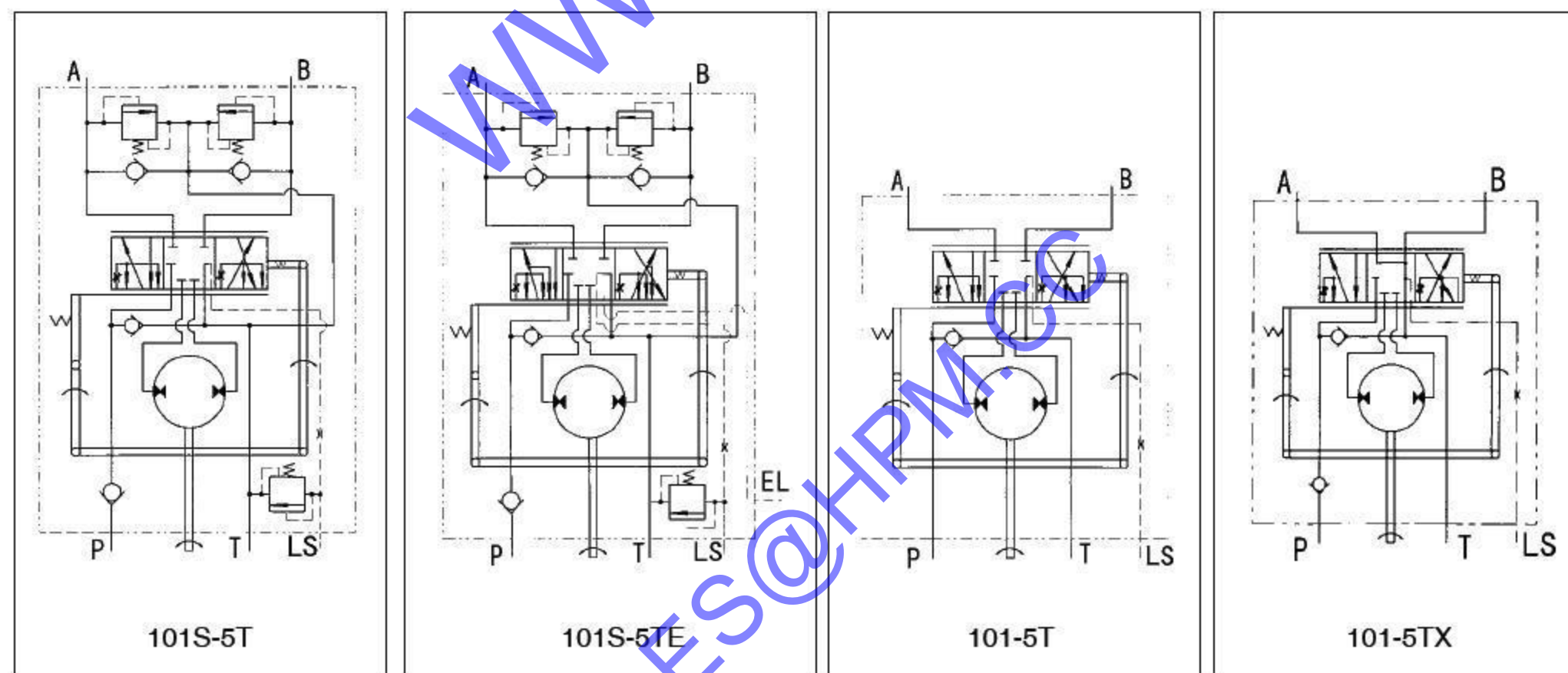
Hydraulic steering units

101S(Danfoss OSPC)

Parameters

HPM Model--Danfoss Model Open center non-reaction		HPM Model--Danfoss Model Closed center reaction		HPM Model--Danfoss Model Loading sensing		Displacement	Max.input speed	Max.input Pressure	Max.Cont. Back Pressure
101S-1-50	OSPC 50 ON	101S-2-50	OSPC 50 OR	101S -5/-5L/-5E/-5T(E) -50	OSPC 50 LS				
101S-1-63	OSPC 63 ON	101S-2-63	OSPC 63 OR	101S -5/-5L/-5E/-5T(E) -63	OSPC 63 LS	63	17.5	2.5	
101S-1-80	OSPC 80 ON	101S-2-80	OSPC 80 OR	101S -5/-5L/-5E/-5T(E) -80	OSPC 80 LS	80	17.5	2.5	
101S-1-100	OSPC 100 ON	101S-2-100	OSPC 100 OR	101S -5/-5L/-5E/-5T(E) -100	OSPC 100 LS	100	17.5	2.5	
101S-1-125	OSPC 125 ON	101S-2-125	OSPC 125 OR	101S -5/-5L/-5E/-5T(E) -125	OSPC 125 LS	125	17.5	2.5	
101S-1-160	OSPC 160 ON	101S-2-160	OSPC 160 OR	101S -5/-5L/-5E/-5T(E) -160	OSPC 160 LS	160	17.5	2.5	
101S-1-200	OSPC 200 ON	101S-2-200	OSPC 200 OR	101S -5/-5L/-5E/-5T(E) -200	OSPC 200 LS	200	17.5	2.5	
101S-1-250	OSPC 250 ON	101S-2-250	OSPC 250 OR	101S -5/-5L/-5E/-5T(E) -250	OSPC 250 LS	250	17.5	2.5	
101S-1-280	OSPC 280 ON	101S-2-280	OSPC 280 OR	101S -5/-5L/-5E/-5T(E) -280	OSPC 280 LS	280	17.5	2.5	
101S-1-315	OSPC 315 ON	101S-2-315	OSPC 315 OR	101S -5/-5L/-5E/-5T(E) -315	OSPC 315 LS	315	75 rpm	17.5	2.5
101S-1-400	OSPC 400 ON	101S-2-400	OSPC 400 OR	101S -5/-5L/-5E/-5T(E) -400	OSPC 400 LS	400		17.5	2.5

Function



Hydraulic steering units



Order Code

	Pos.1	Pos.2	Pos.3	Pos.4	Pos.5	Pos.6
101S	-	*	-	***	-	**

Pos.1 - Function Code

1:Open Center Non-Reaction 2:Open Center Reaction 5:Load Sensing Type (Modulary Mounting)

5 T: Load Sensing Type (T:Pipe Mounting)

Pos.2 - Electrohydraulic Control Signal Connection

Only for Loading sensing type(101S-1、 2 type Omit Pos.3)

Omit : No electrohydraulic signal.

L:The pressure signal at LS connection drawn forth from the LL connection.

E:The pressure signal at the port A or B drawn forth from the EL connection.

Pos.3 - Displacement mL/r

50、 63、 80、 100、 125、 160、 200、 250、 280、 315、 400

Pos.4 - Integrated Valve Parameters

Relief valve pressure settings (MPa):06、 07、 08、 10、 12、 14、 15、 16、 17.5

Shock valves pressure settings is 6 MPa higher than relief valve

Pos.5 - Ports Code

A、 B、 C、 D、 E、 U、 M、 F、 I、 N、 W、 H

Ports and mounting see page 101 order code

Order code

For example: 101S-5TE - 125 - 10 - E

Ports: P, T,A,B G1/2;
 Column Mounting Thread C M10;
 Port: LS G1/4; Port: EL M10x1
 Relief Valve Pressure Settings :10MPa;
 Shock Valves Pressure Settings :16MPa
 Displacement: 125 mL/r
 Pipe Mounting,with an Electrohydraulic Signal

Hydraulic steering units

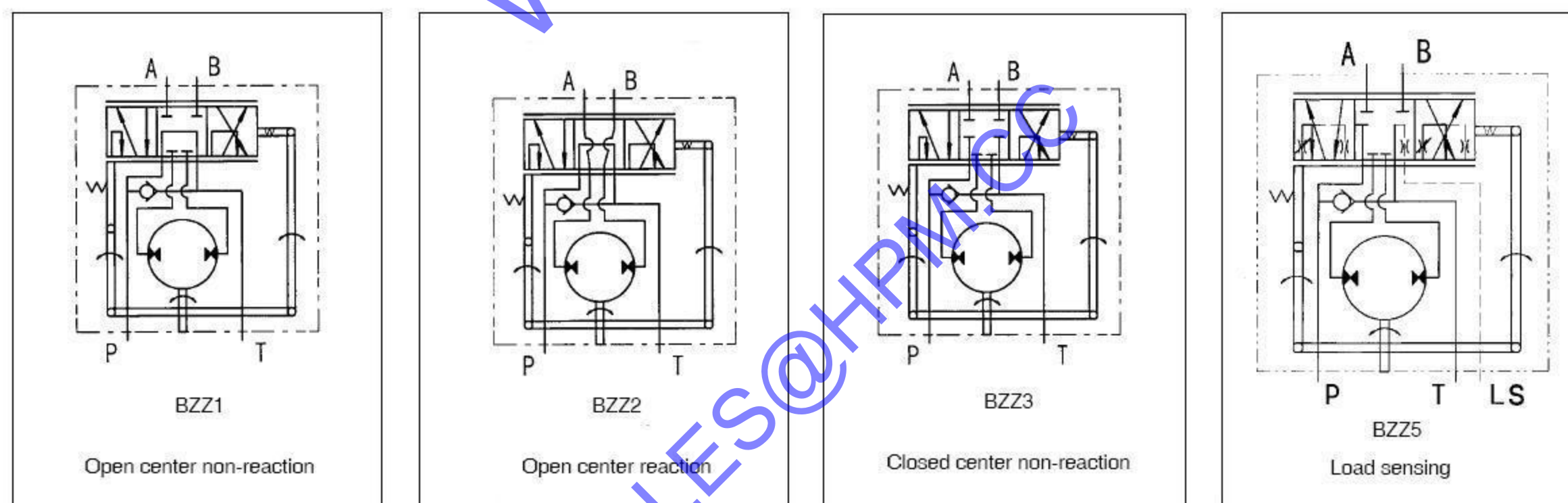
BZZ(Danfoss OSPB OSPL)

Seperated structure, Sizes a little bigger than 101 series, big displacement feasible

Parameters

HPM Model	Displacement (ml/r)	Flow(L/min)	Max.input Pressure(Mpa)	Max.Cont.Back Pressure(Mpa)	Weight(kg)
BZZ-1 2 3 50	50	4	16	2.5	4.72
BZZ-1 2 3 63	63	5			4.85
BZZ-1 2 3 80	80	6			5.00
BZZ-1 2 3 100	100	7.5			5.27
BZZ-1 2 3 125	125	9.5			5.43
BZZ-1 2 3 160	160	12			5.75
BZZ-1 2 3 200	200	15			6.08
BZZ-1 2 3 250	250	19			6.48
BZZ-1 2 3 280	280	21			6.78
BZZ-1 2 3 315	315	24			7.13
BZZ-1 2 3 400	400	30			7.78
BZZ-1 2 3 500	500	38			8.67
BZZ-1 2 3 630	630	48			9.72
BZZ-1 2 3 800	800	60			11.18
BZZ-1 2 3 1000	1000	75			12.80

Function



Order Code

	Pos.1	Pos.2	Pos.3	Pos.4
BZZ	-	*	-	***
				**
				-
				*

Pos.1 -

1:Open Center Non-Reaction 2:Open Center Reaction 3:Closed center non-reaction 5: Load Sensing Type

Hydraulic steering units

Pos.2 – Mounting Data

A: Long spigot, cross-block mounting B: SAE involute spline mounting C: Short spigot, cross-block mounting

Pos.3 – Displacement mL/r

50, 63, 80, 100, 125, 160, 200, 250, 280, 315, 400, 500, 630, 800, 1000,

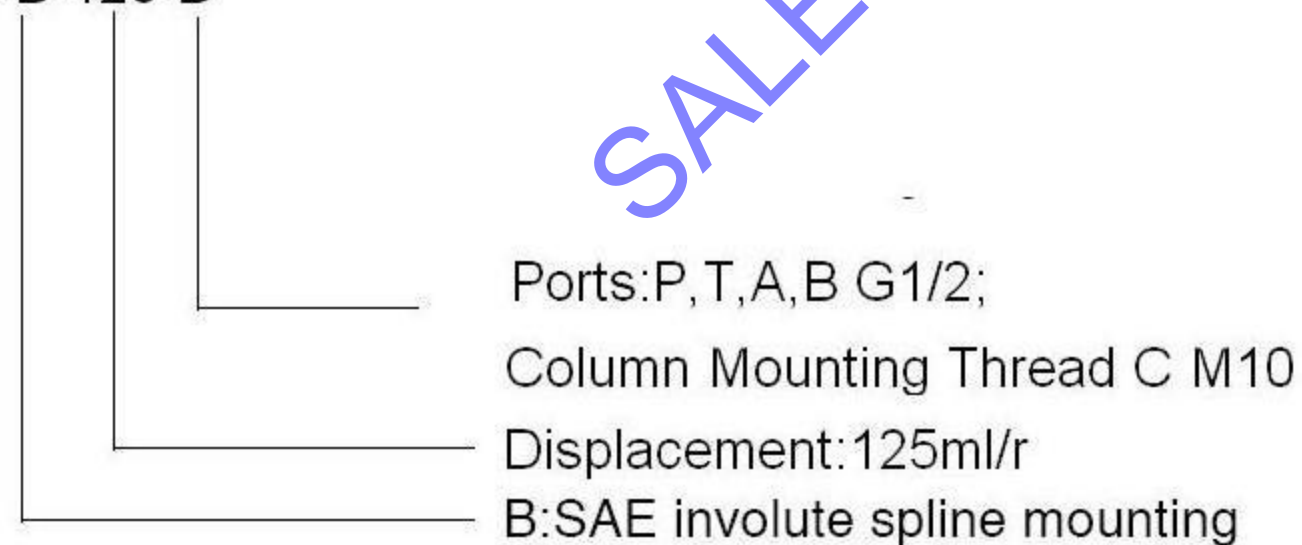
Pos.4 – Ports Code

Category	Code	Ports P, T, A, B	Column Mounting C	Valve Mounting V	Port LS
Ports Code	(omit)	M20×1.5	M10	M12	M12×1.5
	A	M18×1.5	M10	M12	M12×1.5
	B	G1/2	M10	M10×1	G1/4
	C	3/4-16UNF O-ring	3/8-16UNC	3/8-24UNF	7/16-20UNF O-ring
	D	M20×1.5 O-ring	M10	M12	M12×1.5 O-ring
	E	M18×1.5 O-ring	M10	M12	M12×1.5 O-ring
	G	M22×1.5	M10	M12	M12×1.5
	Q	M22×1.5 O-ring	M10	M12	M12×1.5 O-ring
	U	G1/2 O-ring	M10	M10×1	G1/4 O-ring
	M	3/4-16UNF O-ring	M10	M12	7/16-20UNF O-ring
	I	3/4-16UNF O-ring	M10	M10	7/16-20UNF O-ring
	N	3/4-16UNF O-ring	M10×1.25	M10	7/16-20UNF O-ring
	R	P, T: M22×1.5 A, B: M18×1.5	M10	M12	M12×1.5
S	P, T: M22×1.5 O-ring A, B: M18×1.5 O-ring	M10	M12	M12×1.5	

Note 1: Ports P, T, A, B Depth : 14 mm; Column Mounting C & V Depth: 16 mm; Port LS Depth: 12mm.

Order code

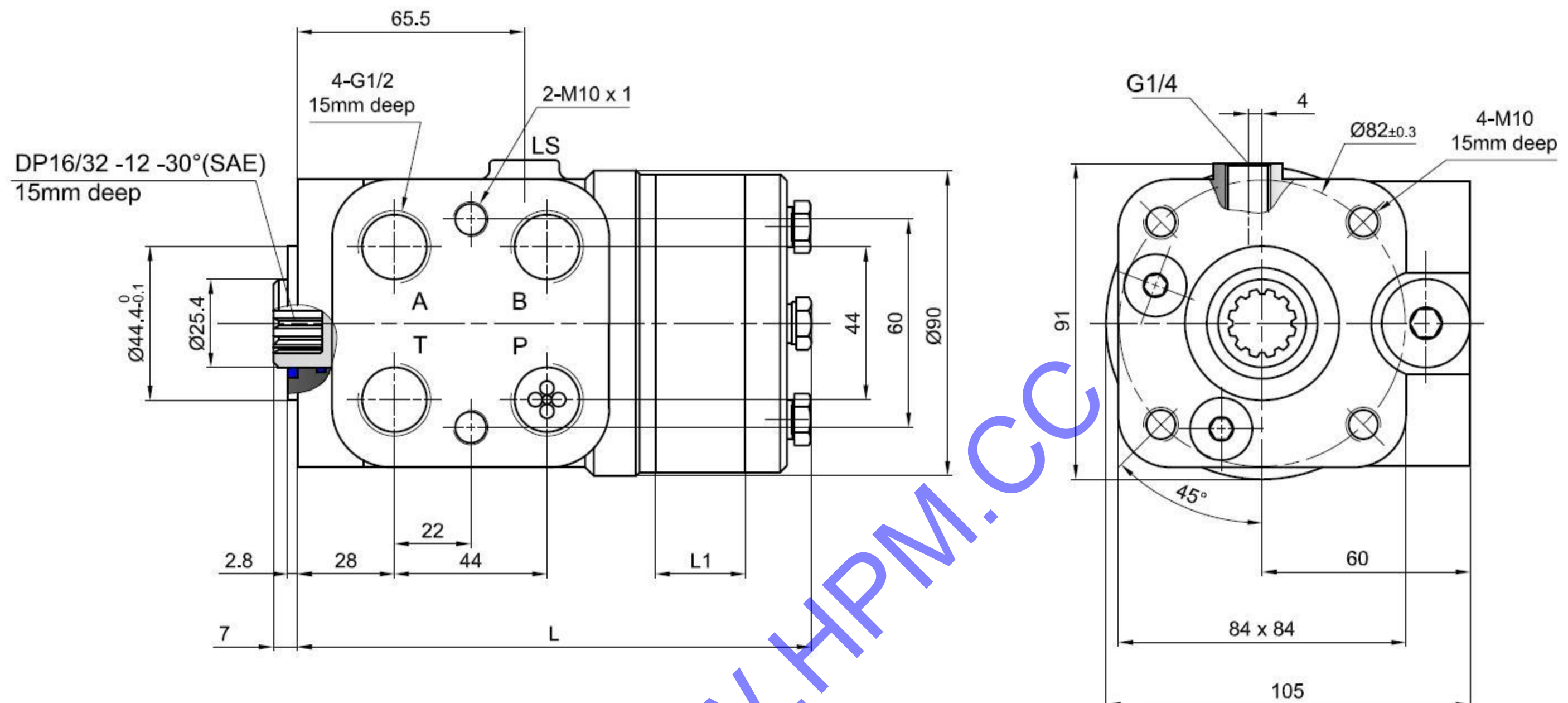
For example: BZZ1-B-125-B



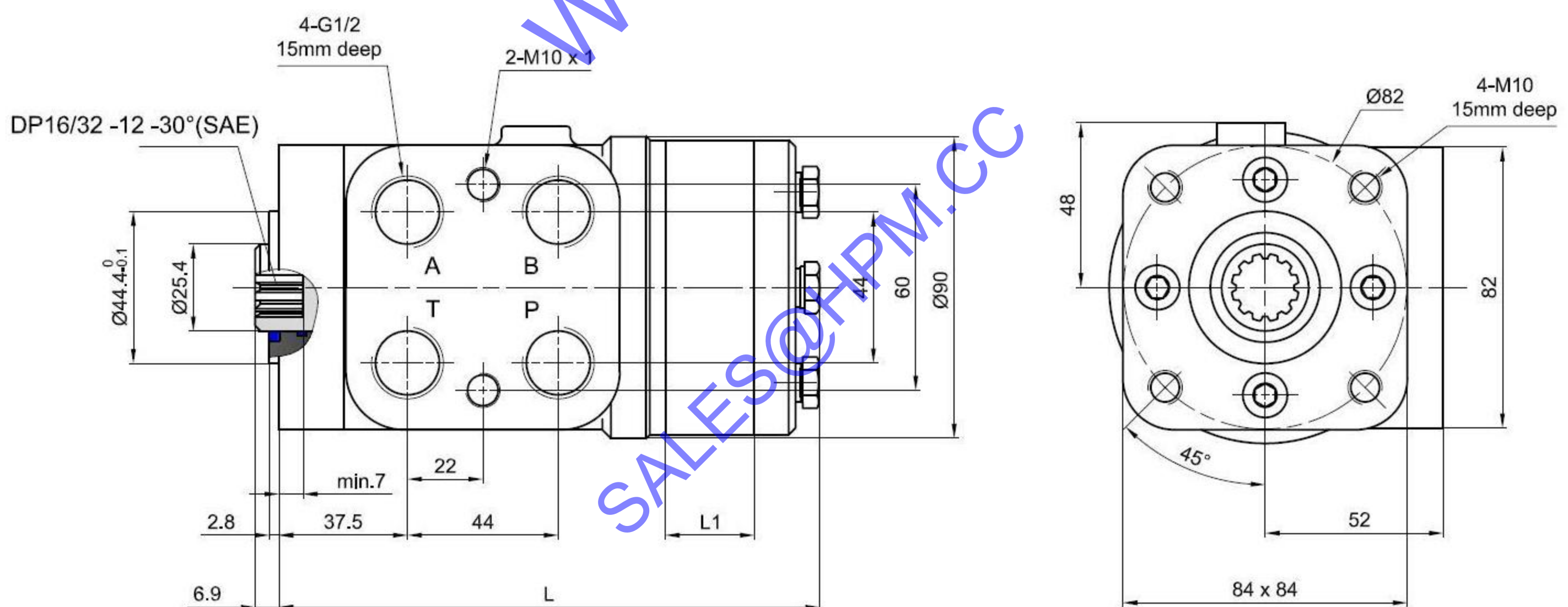
Hydraulic steering units

Drawing example

101S-5T-x-E



BZZ1-x-B-B



Remarks

For other type steering units, and accessory please contact with our sales department. Like Coaxial Flow Amplifying steering units, Torque Amplifiers, Valve Blocks, Priority valves, Columns

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