



Bell-Housing



GENERAL INFORMATION	page 46
LMG	51
LMC - LDC	63
LMS - LDS	71
MULTI-COMPONENTS	79



Noise is a particularly pervasive problem so much so that there have been statutory regulations in place now for some years, designed to limit harmful occupational exposure.

Many of the machines used in industry today are equipped with oil-hydraulic systems, which happen to be a major source of noise.

① THEORY AND DEFINITION OF NOISE

From a health and hygiene standpoint, noise can be defined as an unpleasant and undesirable sound, or an unpleasant and annoying or intolerable auditory sensation (noise being any sound phenomena that may be accompanied by sensations of disturbance and pain). By definition, acoustic phenomena are oscillatory in character, propagated in a flexible medium and causing pressure variations at the points, and the areas adjacent to those points, through which they pass.

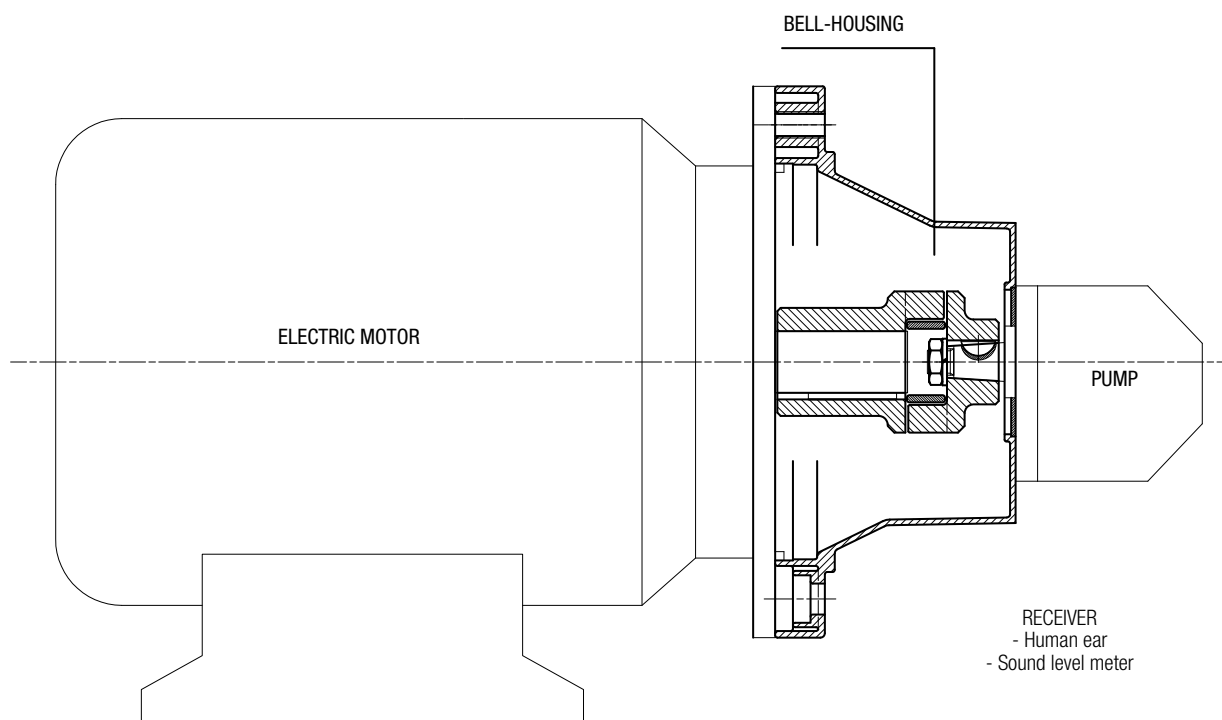
② SOUND

Technically considered, certain elements must be present simultaneously for acoustic phenomena to occur:

- Sound source
- Transmission medium
- Receive

The electric motor and the pump, together with the drive coupling, are the SOURCE OF THE NOISE. The Bell-housing is the noise transmission medium. Depending on whether the monobloc bell-housing is a rigid or low noise type, there will be variations in the flexible properties of the transmission medium. The acoustic phenomena are dissimilar in the two cases, given the differences in pressure variation and particle displacement.

MOTOR AND PUMP UNIT





As mentioned in the presentation, low noise bell-housing will help to attenuate the transmission of vibrations and the emission of noise generated by the system. Self-evidently, however, the mere adoption of a low noise bell-housing will achieve little unless the motor and pump are correctly installed on the machine or on the tank of the hydraulic power unit.

From a health and hygiene standpoint, noise can be defined as an unpleasant and undesirable sound, or an unpleasant and annoying or intolerable auditory sensation (noise being any sound phenomena that may be accompanied by sensations of disturbance and pain).

By definition, acoustic phenomena are oscillatory in character, propagated in a flexible medium and causing pressure variations at the points, and the areas adjacent to those points, through which they pass.

Should be followed in order to achieve best possible results and correct installation:

1 MOTOR AND PUMP UNIT MOUNTED HORIZONTALLY ON OIL TANK LID

- The suction pipe attached to the pump must be rigid, and fitted using a resilient bulkhead flange of the FTA series, which helps to cushion the vibrations propagated between the pipe and the tank lid.
If pipes need to be bent, the radius of curvature must be at least 3 times the pipe diameter.
Do not use elbow fittings, as these will significantly increase pressure losses.
- The pressure pipeline of the pump must be flexible, and long enough to include bends with the minimum radius of curvature recommended by the manufacturer for the specified operating pressure.
- The return pipeline running from the service to the filter must be flexible.
Where oil is returned directly to the tank of the hydraulic power unit through a rigid pipe, it is advisable to use a resilient bulkhead flange of the FTR series, which helps to cushion the vibrations propagated between the pipe and the tank lid.
- Anti-vibration devices (resilient mounts or damping rods) must be located under the feet of the electric motor or the PDM foot brackets, depending on the mounting position of the motor.
- The lids of hydraulic oil tanks must be sturdy enough to support the load they carry.

2 MOTOR AND PUMP UNIT MOUNTED HORIZONTALLY ON MACHINE

- As a matter of good practice, the oil tank and motor-pump unit should be mounted on a single supporting frame of strength sufficient to support the load.
- If the hydraulic system is fitted with a side-mounted filter, the suction pipeline to the pump must be flexible, and long enough to include bends with the minimum radius of curvature recommended by the manufacturer.
- If the suction filter is not side mounted, the pipeline should be rigid and installed in conjunction with a compensating coupling.
- The pressure pipeline of the pump must be flexible, and long enough to include bends with the minimum radius of curvature recommended by the manufacturer for the specified operating pressure.

- The return pipeline running from the service to the filter must be flexible.
Where oil is returned directly to the tank of the hydraulic power unit through a rigid pipe, it is advisable to use a resilient bulkhead flange of the FTR series, which helps to cushion the vibrations propagated between the pipe and the tank lid.
- Anti-vibration devices (resilient mounts or damping rods) must be located under the feet of the electric motor or the PDM foot brackets, depending on the mounting position of the motor.

Note:

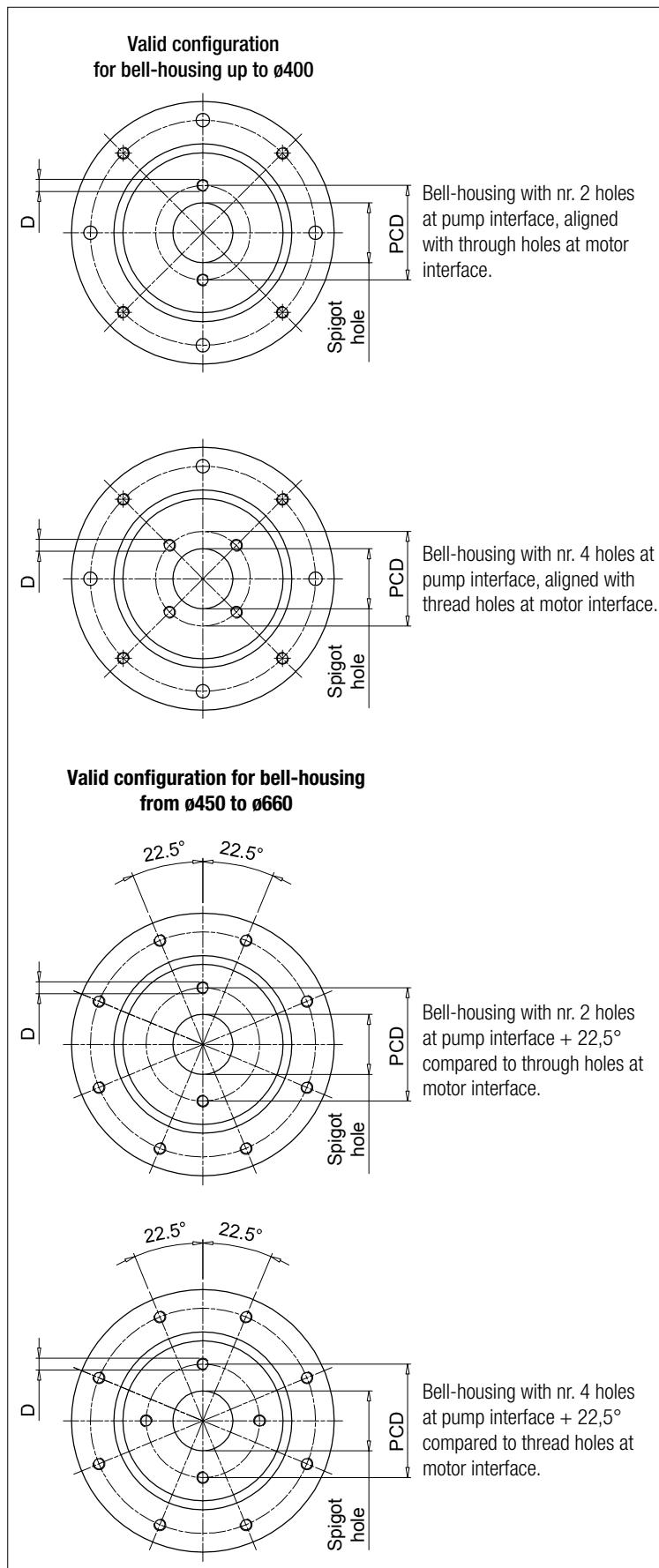
The above guidelines are indicative only, and subordinate to the solutions adopted ultimately by design engineers.

IN CONCLUSION

For best results, in any event, the motor-and-pump unit should be incorporated into the hydraulic system in such a way that no one component is rigidly associated with another, resulting in the propagation of vibration, and consequently noise.



GENERAL INFORMATION PUMP INTERFACE CODES



Spigot hole [mm]	PCD	D	Nr. holes	Code	Type
40	72.00	M8	2	191	-
45.2	88.90	M8	4	096	-
	71.80	M8	4	120	-
50	80.00	M8	2	052	ISO3019-2-50-B2
	93.00	M10	2	053	-
	60.00	M5	4	280	-
	63.00	Ø7	4	057	-
	93.00	M8	2	287	-
50.8	82.50	M8	2	050	SAE A-A 50-2
56	76.00	M6	4	234	-
57.15	106.40	Ø11	2	212	-
60	74.00	M10	4	098	-
	98.50	M6	4	147	-
	75.00	M6	4	227	-
62.7	157.20	M12	4	231	-
63	100.00	M8	2	042	ISO3019-2-63-B2
	125.00	M6	4	043	-
	85.00	M8	4	044	-
	80.00	M8	2	051	-
	80.00	Ø8,5	4	058	-
	100.00	M10	2	062	-
65	85.00	M8	4	168	ISO3019-2-63-B4
	90.00	M8	4	271	-
70	90.00	M8	4	073	-
71.8	84.00	Ø7	4	289	-
71.8	88.90	M10	4	047	-
75	102.00	M10	4	139	-
80	100.00	M8	4	024	ISO3019-2-80-B4
	103.20	M8	2	045	ISO3019-2-80-B2
	100.00	Ø11	4	059	-
	100.00	M10	2	061	-
	110.00	M10	2	063	-
	140.00	M10	2	064	-
	115.00	M10	2	065	-
	100.00	M10	4	067	-
	106.40	M10	2	083	-
	130.00	M8	4	087	-
	100.00	Ø8,5	4	093	-
113.00	M12	4	104	-	
95.00	M8	4	169	-	
103.00	M8	4	242	-	
110.00	M10	4	272	-	
82.55	106.40	M10	2	060	SAE A 82-2
	105.00	M10	4	097	-
	106.40	M8	2	254	-
	146.00	M12	2	260	-
	110.00	M10	2	284	-
85	106.40	M10	2	066	-
90	112.00	M8	2	134	-
	105.00	M8	4	156	-
	118.00	Ø9	2	163	-
	112.00	Ø9	2	164	-
92	140.00	M8	4	088	-
	145.00	M10	4	089	-

"-": out of ISO & SAE Standard



PUMP INTERFACE CODES GENERAL INFORMATION

Spigot hole [mm]	PCD	D	Nr. holes	Code	Type
95	115.00	M8	4	137	-
	127.00	M10	4	131	-
98.4	125.00	Ø11	4	128	-
	125.00	M10	4	023	ISO3019-2-100-B4
100	125.00	M10	2	025	ISO3019-2-100-B2
	125.00	Ø11	2	031	-
	125.00	M5	4	032	-
	190.00	Ø7	4	038	-
	125.00	Ø13	4	041	-
	125.00	M12	2	071	-
	140.00	M12	2	072	-
	146.00	M12	2	075	-
	126.00	M10	2	106	-
	120.00	M8	4	122	-
	160.00	M10	4	141	-
	150.00	M10	4	150	-
	101.6	161.50	M12	4	029
146.00		M12	2	070	SAE B 101-2
127.00		M12	4	125	-
146.00		M10	2	159	-
105	127.00	M10	4	224	-
	146.00	M12	2	076	-
110	175.00	M10	4	110	-
	130.00	M8	4	154	-
	200.00	M10	4	202	-
	135.00	M10	4	219	-
	145.00	M12	4	273	-
112	140.00	M12	2	074	-
	140.00	M10	2	138	-
	130.00	M10	4	264	-
115	180.00	M12	4	198	-
116	160.00	M14	2	084	-
120	210.00	M16	2	094	-
	145.00	M10	4	155	-
	150.00	Ø13	4	267	-
125	160.00	M12	4	026	ISO3019-2-125-B4
	160.00	Ø13	4	033	-
	160.00	M12	2	079	-
	180.00	M16	2	082	ISO3019-2-125-B2
	155.00	M10	4	102	-
	160.00	Ø17	4	113	-
	200.00	M12	4	114	-
	181.20	M16	2	136	-
	200.00	M16	4	200	-
	180.00	Ø20	4	215	-
170.00	Ø18	4	237	-	
127	161.50	M12	4	021	-
	181.20	M16	2	080	SAE C 127-2
	161.50	M14	4	140	-
130	165.00	Ø11	4	054	-
	150.00	M12	4	068	-
	181.20	M16	2	085	-
	165.00	M12	4	124	-
	165.00	M14	4	135	-

"-": out of ISO & SAE Standard

Spigot hole [mm]	PCD	D	Nr. holes	Code	Type
130	165.00	M10	4	253	-
135	160.00	M10	4	151	-
	175.40	M12	4	220	-
140	180.00	M14	4	077	ISO3019-2-140-B4
	180.00	M12	2	081	-
	165.00	M10	4	157	-
	200.00	M16	4	176	ISO3019-2-140-B2
	165.00	M10	4	223	-
	180.00	M16	2	232	-
150	185.00	M16	4	069	-
	228.60	M16	4	022	-
152.4	228.60	M18	2	090	-
	228.60	M18	4	108	-
	217.50	Ø17	4	118	-
	228.60	M20	2	166	SAE D 152-2
	228.60	M20	4	192	SAE D 152 -4
	190.50	M8	4	207	-
160	200.00	M16	4	027	ISO3019 - 2 -160 B4
	200.00	Ø17	4	035	-
	200.00	M16	2	091	-
	224.00	M20	2	092	ISO3019 - 2 -160 B2
	200.00	M12	2	107	-
	230.00	M22	4	111	-
	185.00	M12	4	152	-
	224.00	M16	4	184	-
230.00	M22	4	228	-	
162	188.00	M12	4	263	-
165.1	317.35	M20	4	143	SAE E 165 - 4
	317.35	M24	2	145	SAE E 165 - 2
	229.00	M20	4	201	-
175	317.35	M18	4	204	-
	200.00	M12	4	153	-
177.8	230.00	M18	2	185	-
	350.00	M24	4	146	SAE F 177 - 4
	216.00	M12	4	222	-
180	350.00	M24	2	203	SAE F 177 - 2
	216.00	M12	4	055	-
	216.00	M16	4	078	-
	224.00	M16	4	112	ISO3019 - 2 -180 B4
	216.00	M12	4	132	-
	215.00	M22	4	148	-
	230.00	M22	4	226	-
	250.00	M20	4	028	ISO3019 - 2 -200 B4
250.00	Ø22	4	095	-	
200	280.00	M24	2	117	-
	230.50	M12	4	214	-
203.2	254.00	M14	4	210	-
205	240.00	M16	4	133	-
224	280.00	M20	4	144	ISO3019 - 2 -224 B4
	280.00	Ø22	4	205	-
250	310.00	M24	4	238	-
	315.00	M20	4	282	ISO3019 - 2 -250 B4
275	355.00	M16	4	233	-
	355.00	Ø18	4	281	-

"-": out of ISO & SAE Standard





MULTI-COMPONENTS

Range for IEC motors from size 132 to size 355





Technical data

BMC Modular Bell-Housing Components from IEC motor size 132 to IEC motor size 355

Materials

- Base module: Pressure diecast aluminium alloy
- Pump flange: Aluminium alloy
- Intermediate adapter: Aluminium alloy.
- Screw kit : steel
- Gaskets: Special paper (Guarnital)

Temperature

- From -30 °C to +80 °C

Note

For temperatures outside this range, contact the MP Filtri Technical and Sales Department.

Compatibility with fluids

Modular bell-housing components compatible for use with:

- Mineral oils types HH-LL-HM-HR-HV-HC, to ISO 6743/4 standard
- Water based emulsions types HFAE-HFAS, to ISO 6743/4 standard
- Water glycol type HFC, to ISO 6743/4 standard
- Ask for anodized version

Special Applications

Any applications not covered by the normal indications contained in this catalogue must be evaluated and approved by the MP Filtri Technical and Sales Department.





GENERAL INFORMATION MULTI-COMPONENTS

BMC

Bell-Housing size	Flange ISO 3019-2							IEC Motors size
	50 B2-B4	63 B2-B4	80 B2-B4	100 B2-B4	125 B2-B4	160 B2-B4	200 B2-B4	
BMC200	●	●	●	●				IEC 80 \varnothing 200 - \varnothing 19x40
BMC200	●	●	●	●				IEC 90 \varnothing 200 - \varnothing 24x50
BMC250	●	●	●	●	●			IEC 100 \varnothing 250 - \varnothing 28x60
BMC250	●	●	●	●	●			IEC 112 \varnothing 250 - \varnothing 28x60
BMC300			●	●	●	●		IEC 132 \varnothing 300 - \varnothing 38x80
BMC350			●	●	●	●		IEC 160 \varnothing 350 - \varnothing 42x110
BMC350			●	●	●	●	●	IEC 180 \varnothing 350 - \varnothing 48x110
BMC400			●	●	●	●	●	IEC 200 \varnothing 400 - \varnothing 55x110
BMC450			●	●	●	●	●	IEC 225 \varnothing 450 - \varnothing 60x140

Bell-Housing size	Flange SAE J 744										IEC Motors size
	50-2 (A-A)	82-2 (A)	101-2 (B)	127-2 (C)	152-2 (D)	165-2 (E)	101-4 (B)	127-4 (D)	152-4 (D)	165-4 (E)	
BMC200	●	●									IEC 80 \varnothing 200 - \varnothing 19x40
BMC200	●	●									IEC 90 \varnothing 200 - \varnothing 24x50
BMC250	●	●	●				●				IEC 100 \varnothing 250 - \varnothing 28x60
BMC250	●	●	●	●			●				IEC 112 \varnothing 250 - \varnothing 28x60
BMC300		●	●	●			●	●			IEC 132 \varnothing 300 - \varnothing 38x80
BMC350		●	●	●			●	●			IEC 160 \varnothing 350 - \varnothing 42x110
BMC350		●	●	●	●		●	●	●		IEC 180 \varnothing 350 - \varnothing 48x110
BMC400		●	●	●	●	●	●	●	●	●	IEC 200 \varnothing 400 - \varnothing 55x110
BMC450			●	●	●	●	●	●	●	●	IEC 225 \varnothing 450 - \varnothing 60x140

BMT

Bell-Housing size	Flange ISO 3019-2							IEC Motors size
	50 B2-B4	63 B2-B4	80 B2-B4	100 B2-B4	125 B2-B4	160 B2-B4	200 B2-B4	
BMT300			●	●	●	●		IEC 132 \varnothing 300 - \varnothing 38x80
BMT350			●	●	●	●		IEC 160 \varnothing 350 - \varnothing 42x110
BMT350			●	●	●	●	●	IEC 180 \varnothing 350 - \varnothing 48x110
BMT400			●	●	●	●	●	IEC 200 \varnothing 400 - \varnothing 55x110
BMT450			●	●	●	●	●	IEC 225 \varnothing 450 - \varnothing 60x140
BMT550					●	●	●	IEC 250 \varnothing 550 - \varnothing 65x140
BMT550					●	●	●	IEC 280 \varnothing 550 - \varnothing 75x140
BMT660						●	●	IEC 315 \varnothing 660 - \varnothing 80x170
BAD800						●	●	IEC 355 \varnothing 800 - \varnothing 95x210

Bell-Housing size	Flange SAE J 744										IEC Motors size
	50-2 (A-A)	82-2 (A)	101-2 (B)	127-2 (C)	152-2 (D)	165-2 (E)	101-4 (B)	127-4 (D)	152-4 (D)	165-4 (E)	
BMT300		●	●	●			●	●			IEC 132 \varnothing 300 - \varnothing 38x80
BMT350		●	●	●			●	●			IEC 160 \varnothing 350 - \varnothing 42x110
BMT350		●	●	●	●		●	●	●		IEC 180 \varnothing 350 - \varnothing 48x110
BMT400		●	●	●	●	●	●	●	●	●	IEC 200 \varnothing 400 - \varnothing 55x110
BMT450			●	●	●	●	●	●	●	●	IEC 225 \varnothing 450 - \varnothing 60x140
BMT550				●	●	●	●	●	●	●	IEC 250 \varnothing 550 - \varnothing 65x140
BMT550				●	●	●	●	●	●	●	IEC 280 \varnothing 550 - \varnothing 75x140
BMT660				●	●	●	●	●	●	●	IEC 315 \varnothing 660 - \varnothing 80x170
BAD800				●	●	●	●	●	●	●	IEC 355 \varnothing 800 - \varnothing 95x210



MULTI-COMPONENTS

Designation & Ordering code

BMC

1 Motor base series and size Configuration example:

BMC200A1001	BMC300A1551	BMC400A2016
BMC200A1251	BMC300A1555	BMC450A2507
BMC250A1141	BMC300A1705	
BMC250A1361	BMC350A1945	
	BMC350A1946	

BMT300A0805	BMT550A21567
BMT350A1105	BMT660A25067
BMT400A1106	BAD800A2707
BMT450A1406	

Options

DI	Drain hole + inspection hole
AN	Black anodized finish
SA	Clearance holes at motor interface
Pxx	Customer specification

2 Intermediate adapter series and size Configuration example:

AD60465
AD50385
AD60466
AD50386
AD50467
AD60467

Options

AN	Black anodized finish
Pxx	Customer specification

3 Pump flange series and size Configuration example:

FR1023	FP5026	FP6032	FP7052
FR1025	FP5032	FP6045	FP7066
FR1033	FP5035	FP6058	FP7069
FR1035	FP5045	FP6070	FP7086
FR1040	FP5056	FP6082	FP70111
FR1079	FP5063	FP6086	
	FP5064	FP60101	
	FP5091	FP60110	

Pump interface codes

070	See page 48
------------	-------------

Options

FG	Holes rotated through 45° in relation to standard position
DP	Double set of hole
AN	Black anodized finish
Pxx	Customer specification

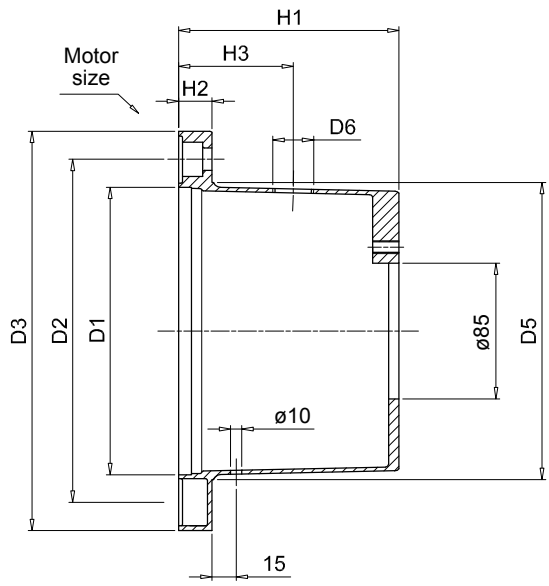
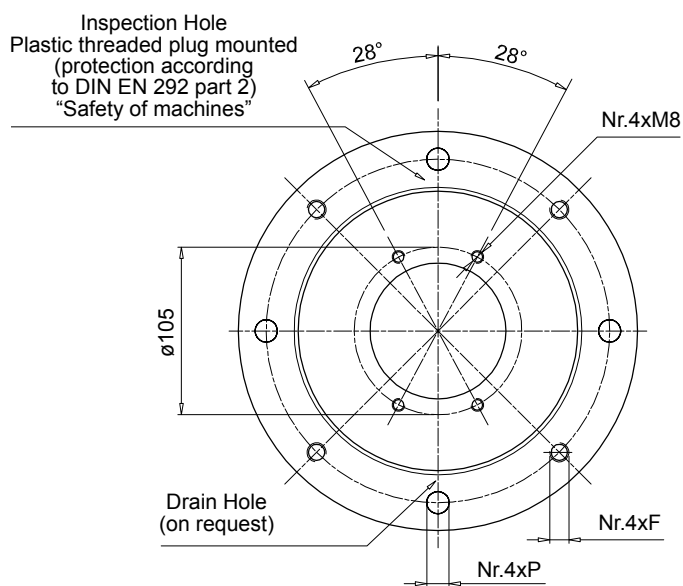
Options

Mounting kit code series and size

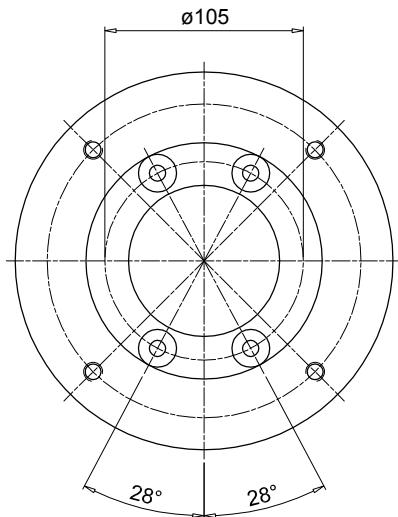
KVG1	
KVG5	
KVG6	See page 99
KVG7	



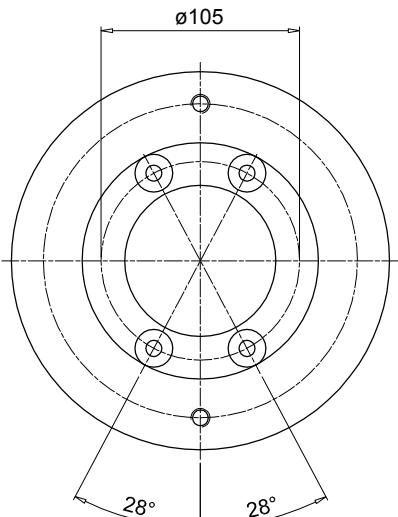
1



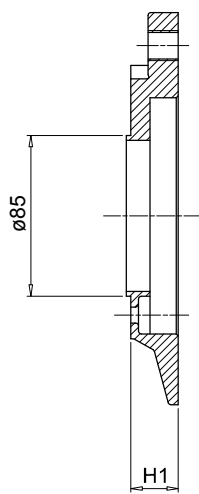
IEC - Electric motors		Motor base code	Dimensions								On request		Weights [kg]
Motor size	Shaft end [d x l]		D1	D2	D3	D5	H1	H2	F	P	H3	D6	
80	19x40	BMC200A1001	130	165	200	135	100	18	M10	11	60	3/4"	0.75
90	24x50	BMC200A1251	130	165	200	135	125	18	M10	11	75	3/4"	0.95
100-112	28x60	BMC250A1141	180	215	250	186	114	19	M12	14	80	3/4"	1.60
		BMC250A1361	180	215	250	186	138	19	M12	14	100	3/4"	1.60
132	38x80	BMC300A1551	230	265	300	235	155	23	M12	14	95	3/4"	3.30



4 Bolt Version



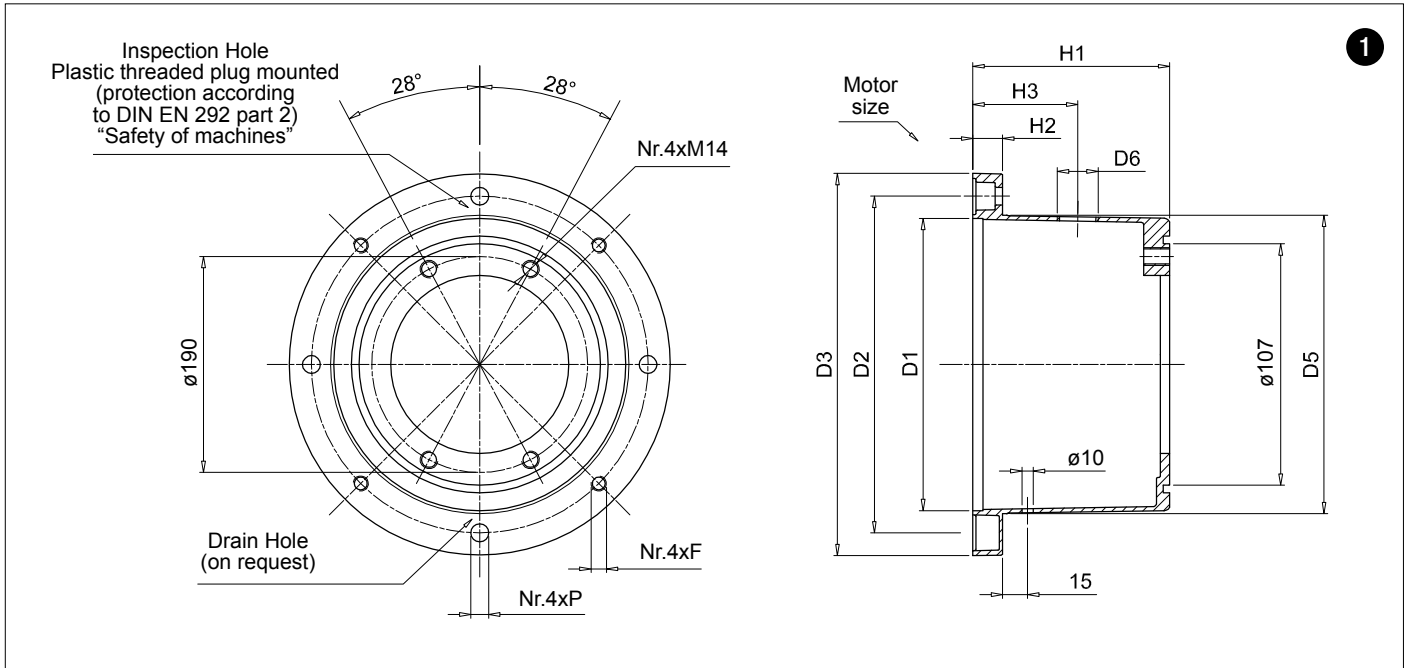
2 Bolt Version



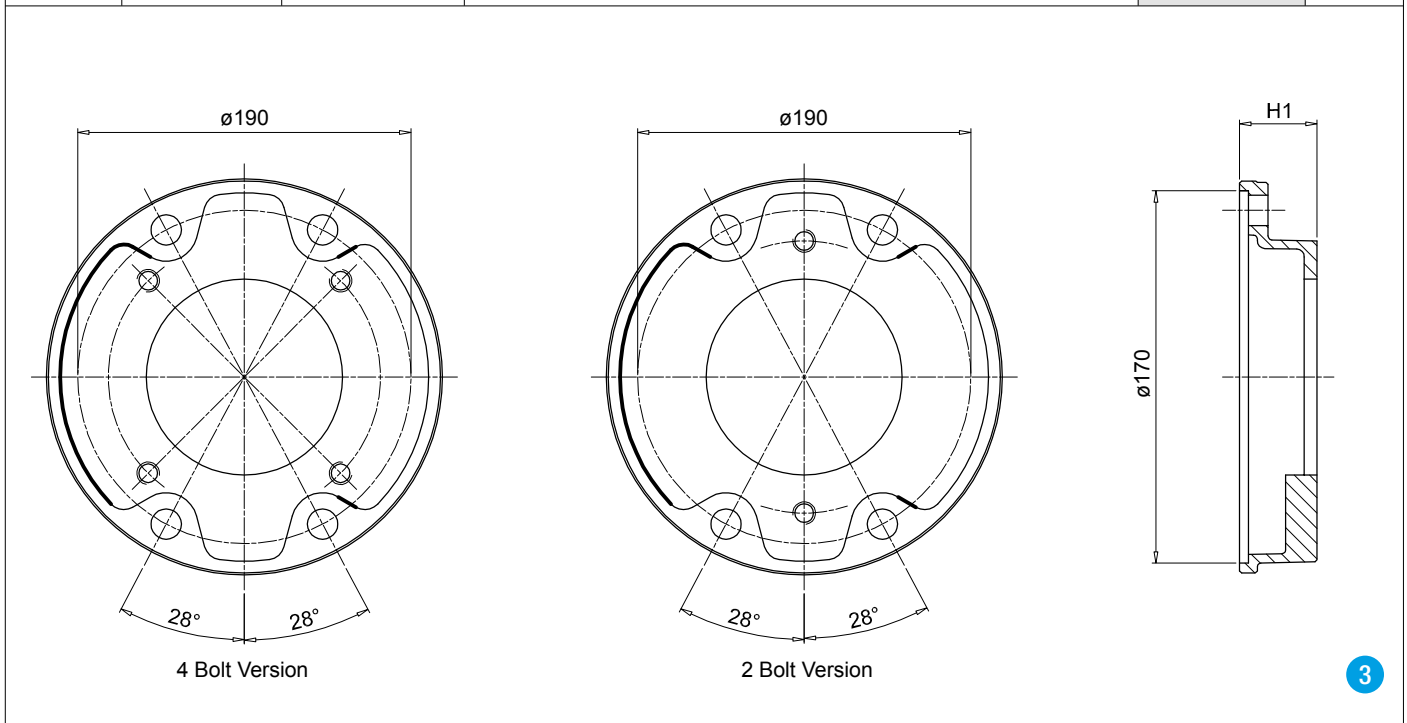
3

Pump flange code	H1	Mounting kit	Available pump interface		Weights [kg]
			2 Bolt	4 Bolt	
FR1023***	23	KVG1 See page 99	D042 - S061 - S063 - S083 - S023 - S070 - S071 - S082 - S075	S024 - S025 - S125 - S154	0.25
FR1025***	25		S080 - S082	S021 - S026 - S068 - S069	0.30
FR1033***	33		S023 - S070 - S071 - S072 - S074 S080 - S082	S021 - S026 - S027	0.80
FR1035***	35		S060 - S063 - S065	-	0.90
FR1040***	40		-	S098 - S227	1.10
FR1079***	79		-	S031	1.30

Pump flange code to be complete with available pump interface
Example: **FR1023S024**



IEC - Electric motors		Motor base code	Dimensions of BMC motor base								On request		Weights [kg]
Motor size	Shaft end [d x l]		D1	D2	D3	D5	H1	H2	F	P	H3	D6	
132	38x80	BMC300A1555	230	265	300	235	155	23	M12	14	95	3/4"	3.3
		BMC300A1705	230	265	300	235	170	23	M12	14	110	3/4"	3.6
16	42x110	BMC350A1785	250	300	350	254	178	31	M16	18	100	1"	4.4
180	48x110	BMC350A1945	250	300	350	254	194	31	M16	18	115	1"	4.9



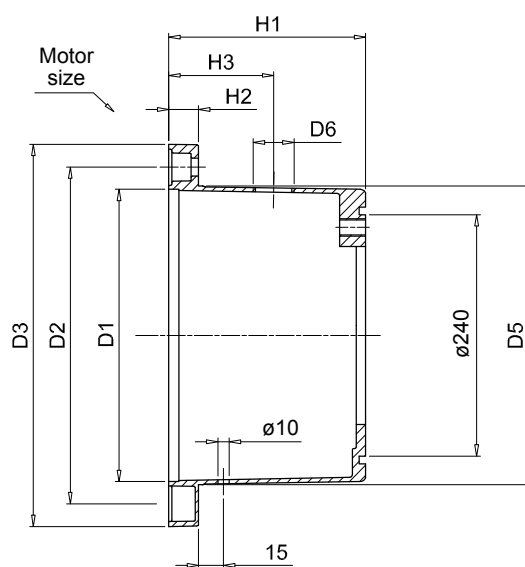
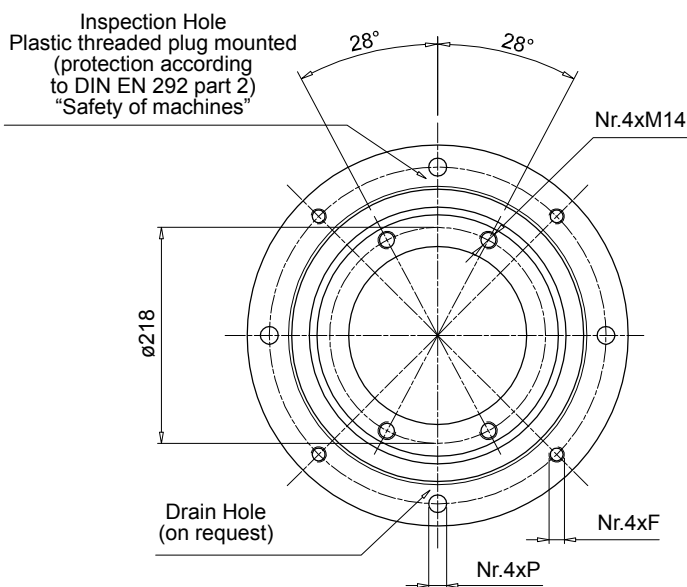
Pump flange code	H1	Mounting kit	Available pump interface		Weights [kg]
			2 Bolt	4 Bolt	
FP5026***	26	KVG5 See page 99	S023 - D042 - S063 - S070 - S072 S075	S024 - S024 - S033 - S125 - S154	1.0
FP5032***	32		-	S024 - S031 - S096 - S125	1.1
FP5035***	35		S023 - D042 - S063 - S070 - S072 - S075 - S060 - S072 - S074 - S075 - S106	S021 - S024 - S025 - S026 - S031 - S059 - S068 - S083 - S097 - S125 - S141	0.9
FP5045***	45		S060 - S070 - S071 - S072 - S074 - S075 - S106	S021 - S024 - S025 - S026 - S068 - S125 - S141	0.9
FP5056***	56		S072	S021 - S026	1.6
FP5063***	63		S070 - S079 - S138	S021 - S025 - S068 - S141	1.7
FP5064***	64		-	S024 - S025 - S059 - S093 - S104	1.7
FP5091***	91		-	S025 - S031 - S033 - S113 - S267	2.2

Pump flange code to be complete with available pump interface

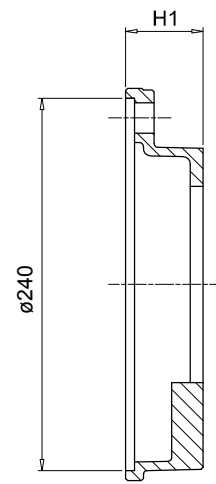
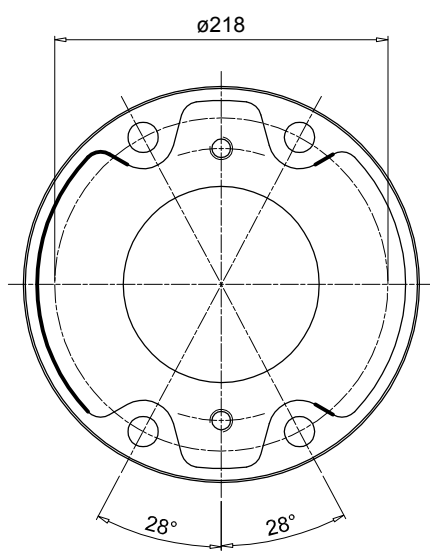
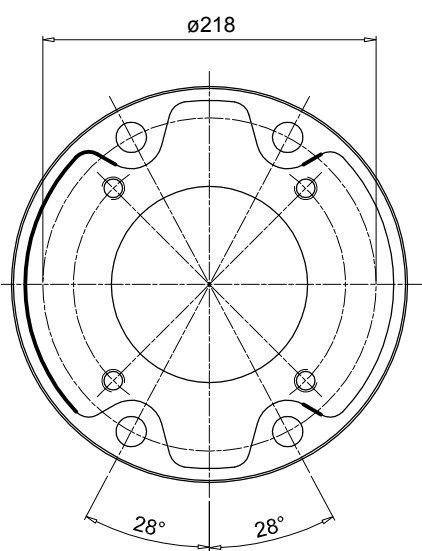
Example: **FP5026S023**



1



IEC - Electric motors		Motor base code	Dimensions								On request		Weights [kg]
Motor size	Shaft end [d x l]		D1	D2	D3	D5	H1	H2	F	P	H3	D6	
160	42x110	BMC350A1786	250	300	350	254	178	31	M16	18	100	1"	4.4
180	48x110	BMC350A1946	250	300	350	254	194	31	M16	18	115	1"	1.9
200	55x110	BMC400A2016	300	350	400	305	201	31	M16	18	125	1 1/2"	6.9



3

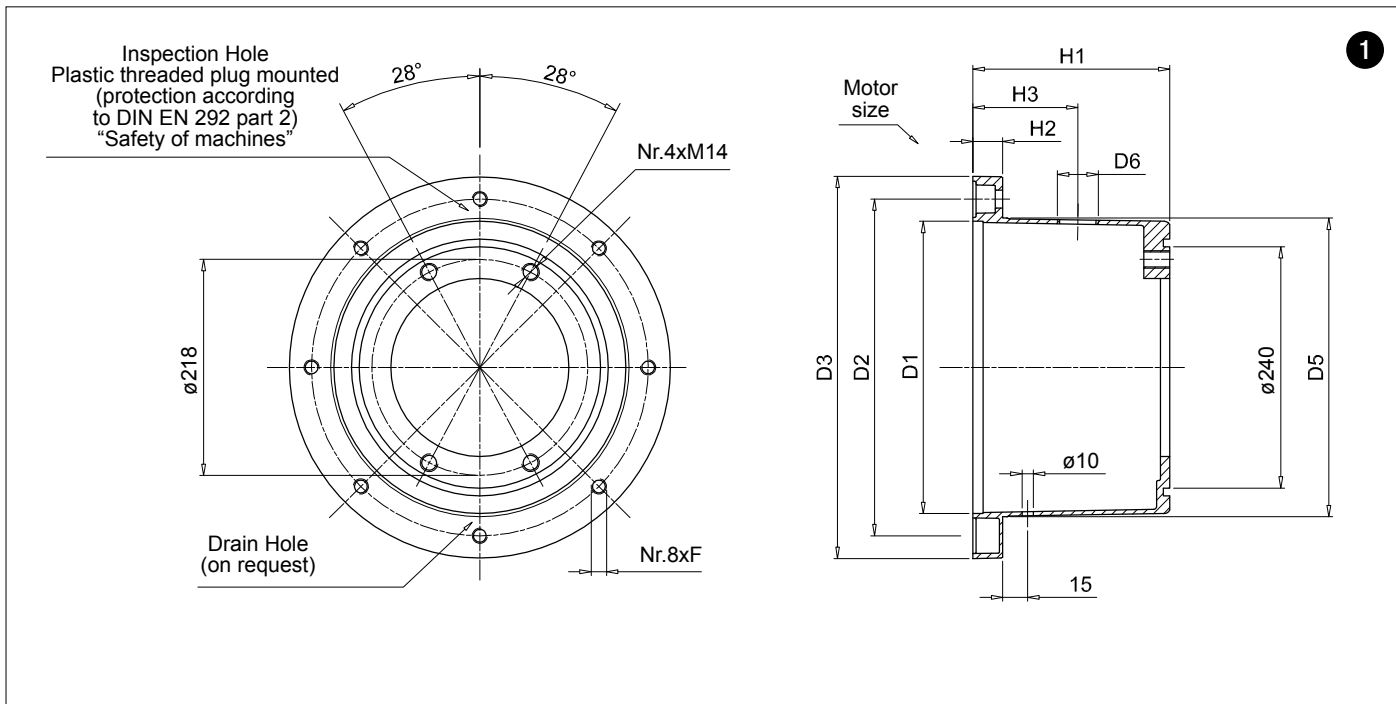
Pump flange code	H1	Mounting kit	Available pump interface		Weights [kg]
			2 Bolt	4 Bolt	
FP6032***	32	KVG6 See page 99	S081 - S082	S021 - S035	1.8
FP6045***	45		S070 - S075 - S080 - S081 - S082	S021 - S025 - S026 - S027 - S069 - S077 - S125 - S198 - S207 - S215 - S253	2.1
FP6058***	58		S079 - S080 - S081 - S082	S024 - S025 - S026 - S027 - S038 - S077 - S078 - S207 - S215 - S237	2.4
FP6070***	70		S080	-	3.0
FP6082***	82		S080 - S081	S038 - S141 - 198 - 215	3.3
FP6086***	86		S090 - S092 - S166 - S091	S021 - S026 - S027 - S077 - S078 - S114 - S132 - 198 - S200	3.4
FP6101***	101		-	S027 - S035 - S113 - S132 - S148 - S176 - S228	4.2
FP6110***	110		S080	S111	5.5

Pump flange code to be complete with available pump interface
 Example: **FP6032S021**

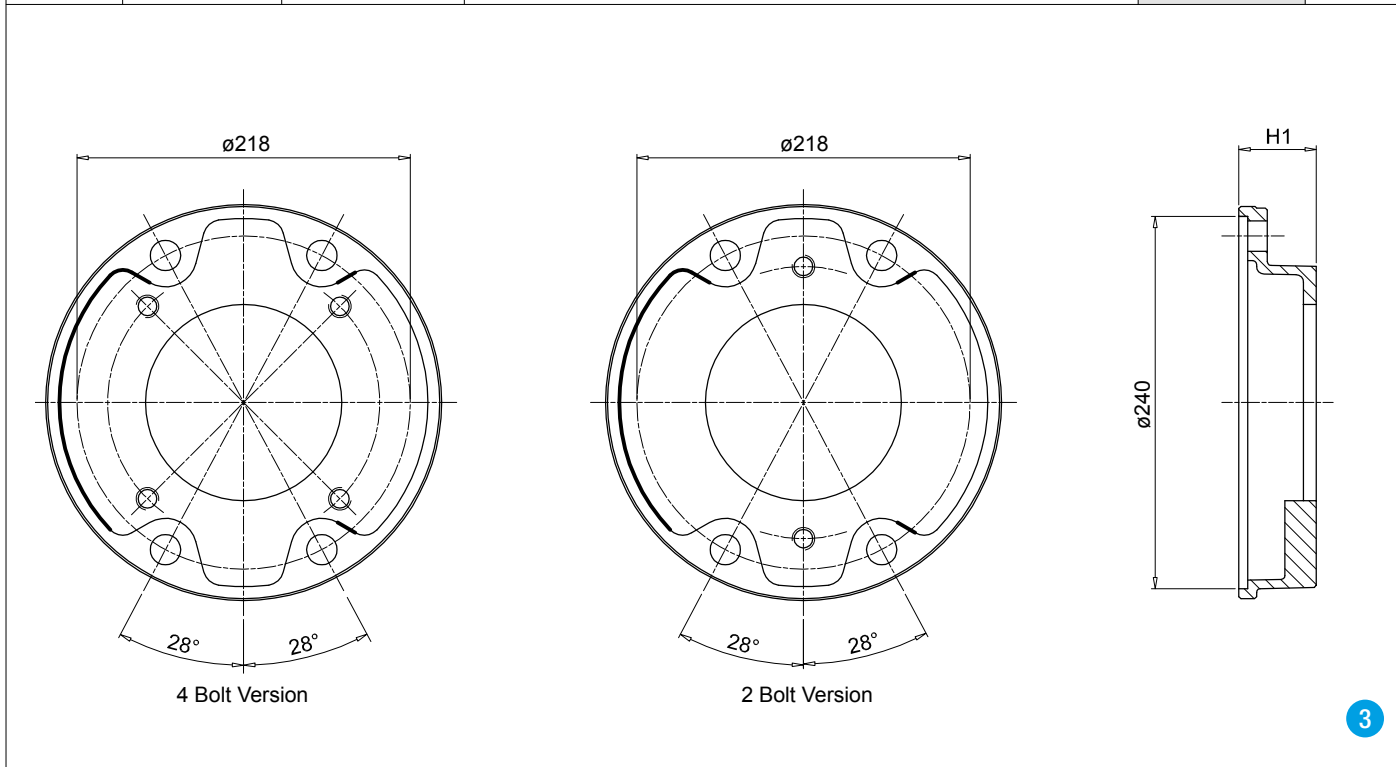


MULTI-COMPONENTS 2

BMC / FLANGE FP6



IEC - Electric motors		Motor base code	Dimensions								On request		Weights [kg]
Motor size	Shaft end [d x l]		D1	D2	D3	D5	H1	H2	F	P	H3	D6	
225	60x140	BMC450A2506	350	400	450	350	250	31	M16	-	175	1"1/2	6.9



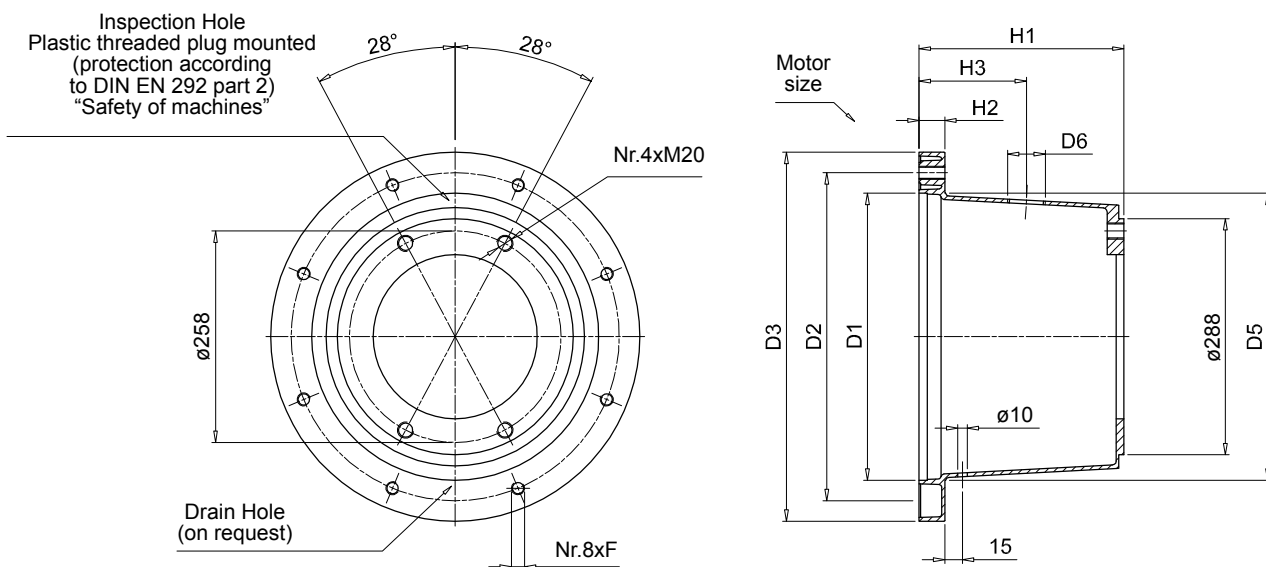
Pump flange code	H1	Mounting kit	Available pump interface		Weights [kg]
			2 Bolt	4 Bolt	
FP6032***	32	KVG6 See page 99	S081 - S082	S021 - S035	1.8
FP6045***	45		S070 - S075 - S080 - S081 - S082	S021 - S025 - S026 - S027 - S069 - S077 - S125 - S198 - S207 - S215 - S253	2.1
FP6058***	58		S079 - S080 - S081 - S082	S024 - S025 - S026 - S027 - S038 - S077 - S078 - S207 - S215 - S237	2.4
FP6070***	70		S080	-	3.0
FP6082***	82		S080 - S081	S038 - S141 - 198 - 215	3.3
FP6086***	86		S090 - S092 - S166 - S091	S021 - S026 - S027 - S077 - S078 - S114 - S132 - 198 - S200	3.4
FP6101***	101		-	S027 - S035 - S113 - S132 - S148 - S176 - S228	4.2
FP6110***	110		S080	S111	5.5

Pump flange code to be complete with available pump interface

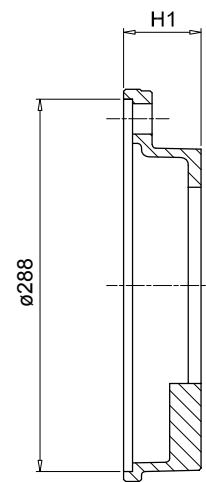
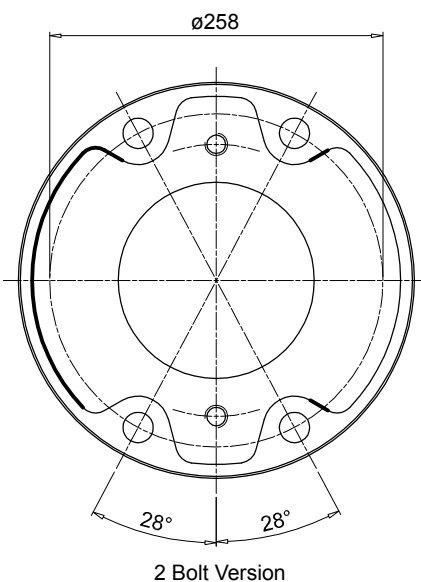
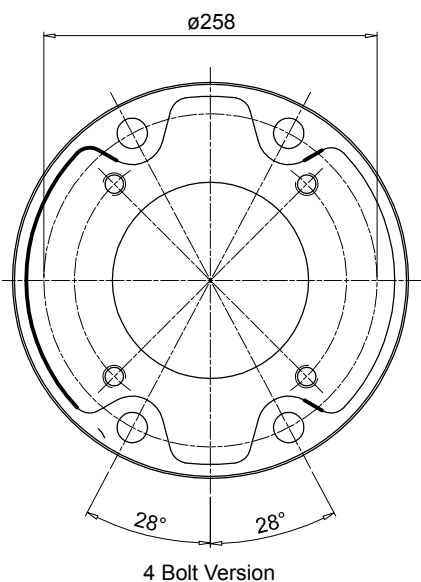
Example: **FP6032S021**



1



IEC - Electric motors		Motor base code	Dimensions								On request		Weights [kg]
Motor size	Shaft end [d x l]		D1	D2	D3	D5	H1	H2	F	P	H3	D6	
225	60x140	BMC450A2507	350	400	450	350	250	31	M16	-	175	1"1/2	6.9



3

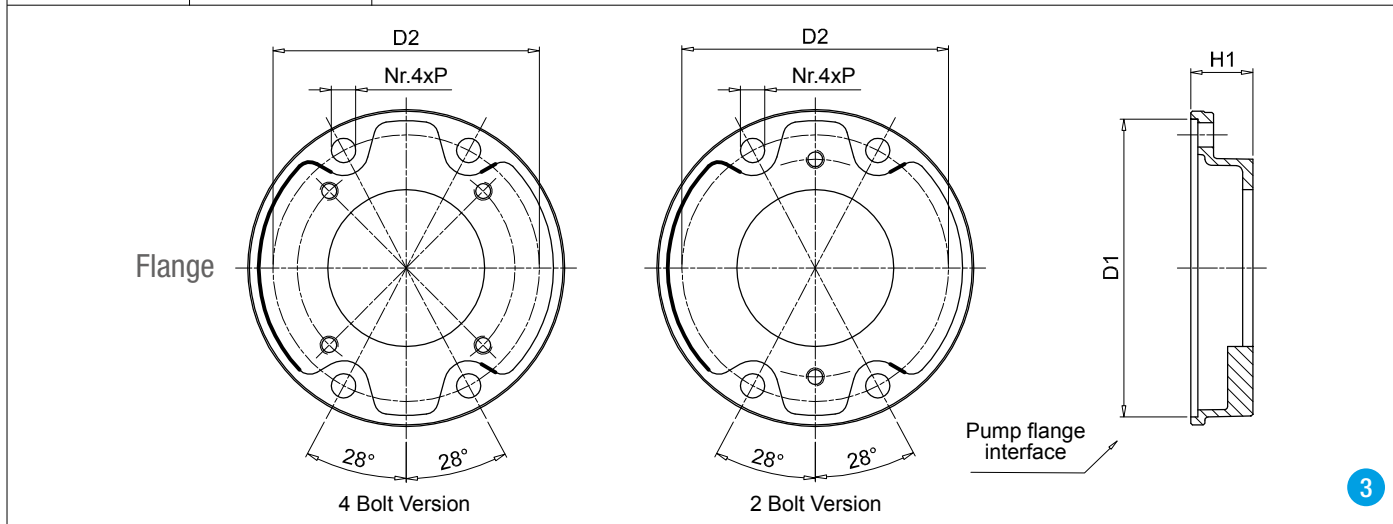
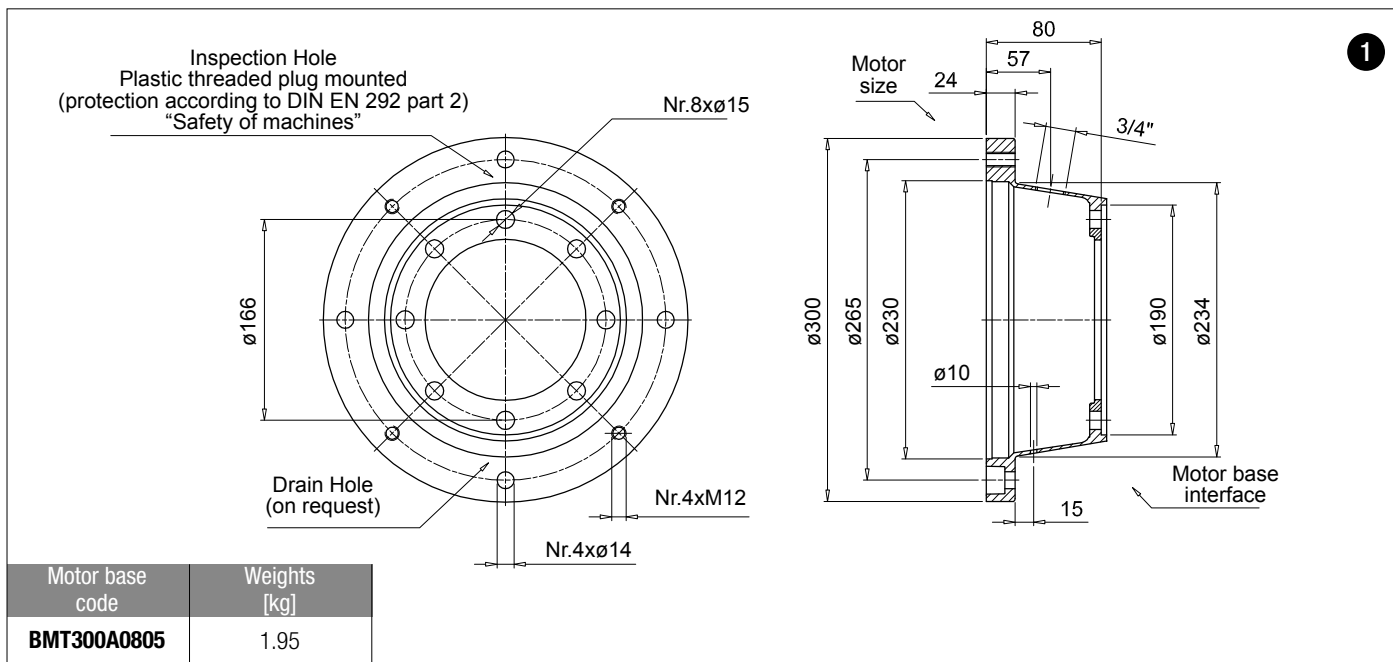
Pump flange code	H1	Mounting kit	Available pump interface		Weights [kg]
			2 Bolt	4 Bolt	
FP7052***	52	KVG7 See page 99	-	S028 - S108 - S112 - S133 - S192	4.4
FP7066***	66		S090 - S092 - S166	-	4.8
FP7069***	69		-	S108 - S143 - S148 - S192 - S201 - S204 - S281 - S282	4.9
FP7086***	86		S091 - S092 - S117 - S166 -	S022 - S027 - S028 - S108 - S112 - S184 - S192 - S201 - S228 - S300	5.2
FP7111***	111		S091 - S092 - S117 - S145	S028 - S108 - S112 - S133 - S184	6.3

Pump flange code to be complete with available pump interface
Example: **FP7052S028**



MULTI-COMPONENTS 3

BMT300



Pump flange code	H1	D1	D2	P	Mounting kit	Available pump interface		Weights [kg]	
						2 Bolt	4 Bolt		
FP5026***	32				KVG5 See page 99	S023 - D042 - S063 - S070 - S072.S075	S024 - S024 - S033 - S125 - S154	1	
FP5032***	45			-		S024 - S031 - S096 - S125	1.1		
FP5035***	58			S023 - D042 - S063 - S070 - S072 - S075 - S060 - S072 - S074 - S075 - S106		S021 - S024 - S025 - S026 - S031 - S059 - S068 - S063 - S097 - S125 - S141	0.9		
FP5045***	70	190	170	S060 - S070 - S071 - S072 - S074 - S075 - S106		S021 - S024 - S025 - S026 - S068 - S125 - S141	0.9		
FP5056***	82			S072		S021 - S026	1.6		
FP5063***	86			S070 - S079 - S138		S021 - S025 - S068 - S141	1.7		
FP5064***	101			-		S024 - S025 - S059 - S093 - S104	1.7		
FP5091***	110			-		S025 - S031 - S033 - S113 - S267	2.2		
FP6032***	32					KVG6 See page 99	S081 - S082	S021 - S035	1.8
FP6045***	45			S070 - S075 - S080 - S081 - S082			S021 - S025 - S026 - S027 - S069 - S077 - S125 - S198 - S207 - S215 - S253	2.1	
FP6058***	58			S079 - S080 - S081 - S082	S024 - S025 - S026 - S027 - S038 - S077 - S078 - S207 - S215 - S237		2.4		
FP6070***	70	258	240	S080	-		3.0		
FP6082***	82			S080 - S081	S038 - S141 - 198 - 215		3.3		
FP6086***	86			S090 - S092 - S166 - S091	S021 - S026 - S027 - S077 - S078 - S114 - S132 - 198 - S200		3.4		
FP6101***	101			-	S027 - S035 - S113 - S132 - S148 - S176 - S228		4.2		
FP6110***	110			S080	S111		5.5		
FP7052***	52				KVG7 See page 99		-	S028 - S108 - S112 - S133 - S192	4.4
FP7066***	66			S090 - S092 - S166			-	4.8	
FP7069***	69	288	258	22		-	S108 - S143 - S148 - S192 - S201 - S204 - S281 - S282	4.9	
FP7086***	86			S091 - S092 - S117 - S166 -		S022 - S027 - S028 - S108 - S112 - S184 - S192 - S201 - S228 - S300	5.2		
FP7111***	111			S091 - S092 - S117 - S145		S028 - S108 - S112 - S133 - S184	6.3		

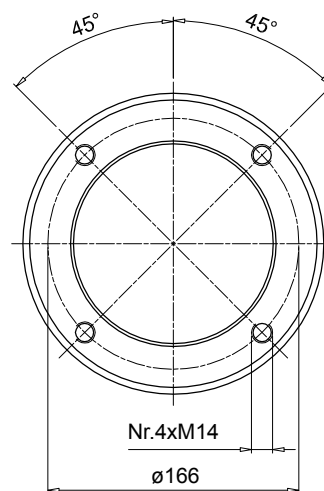
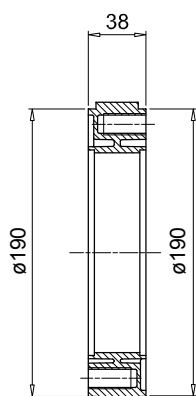
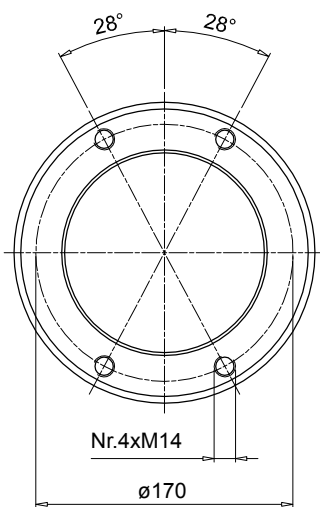
Pump flange code to be complete with available pump interface

Example: **FP6032S021**

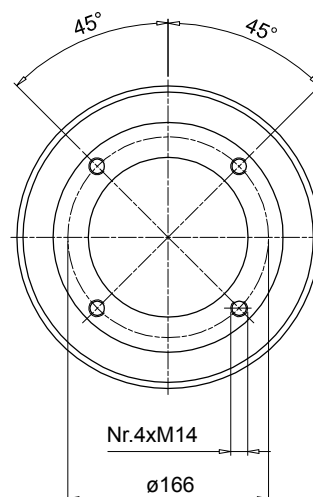
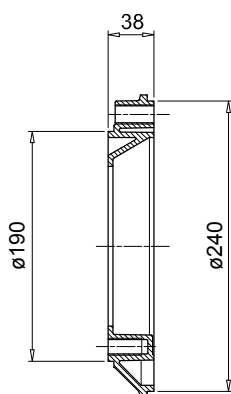
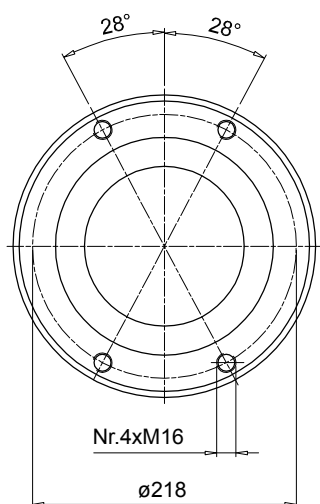


Flange interface

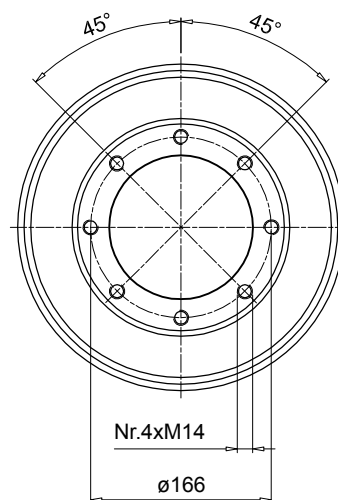
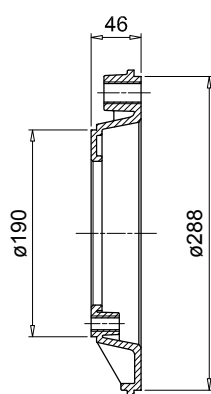
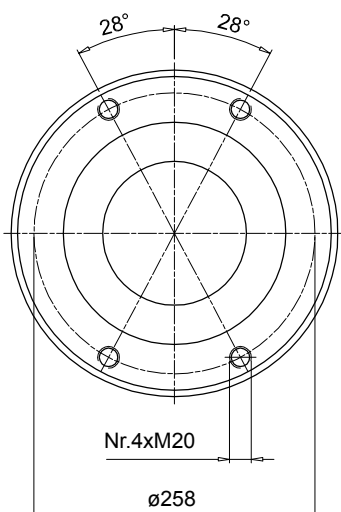
Motor base interface



Code	Weights [kg]
AD50385	1.00



Code	Weights [kg]
AD50386	1.25

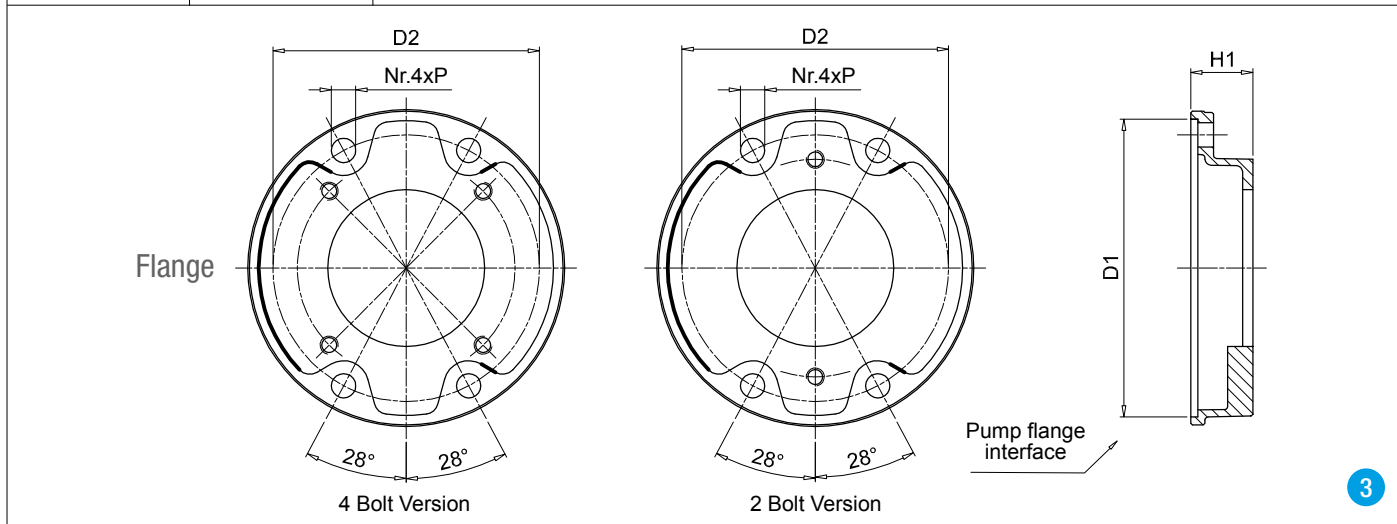
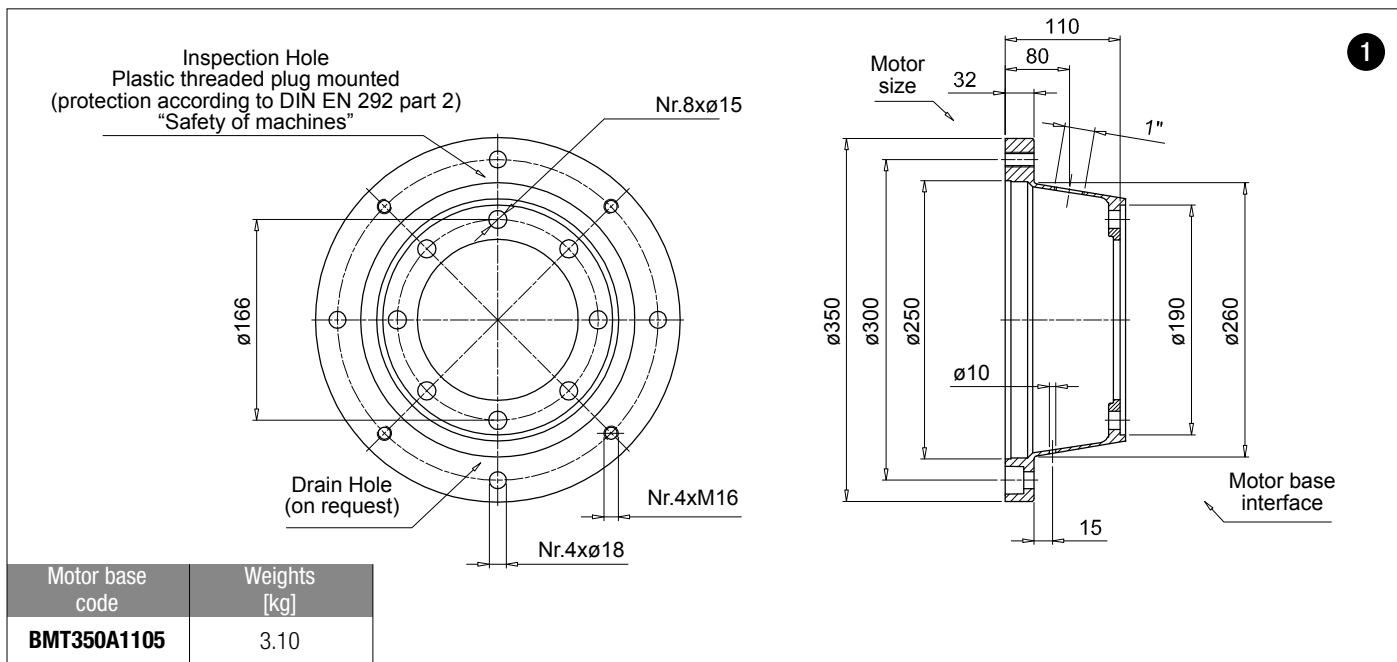


Code	Weights [kg]
AD50467	1.90



MULTI-COMPONENTS 3

BMT350



Pump flange code	H1	D1	D2	P	Mounting kit	Available pump interface		Weights [kg]
						2 Bolt	4 Bolt	
FP5026***	32				KVG5 See page 99	S023 - D042 - S063 - S070 - S072 S075	S024 - S024 - S033 - S125 - S154	1
FP5032***	45					-	S024 - S031 - S096 - S125	1.1
FP5035***	58					S023 - D042 - S063 - S070 - S072 - S075 - S060 - S072 - S074 - S075 - S106	S021 - S024 - S025 - S026 - S031 - S059 - S068 - S083 - S097 - S125 - S141	0.9
FP5045***	70					S060 - S070 - S071 - S072 - S074 - S075 - S106	S021 - S024 - S025 - S026 - S068 - S125 - S141	0.9
FP5056***	82	190	170	15		S072	S021 - S026	1.6
FP5063***	86					S070 - S079 - S138	S021 - S025 - S068 - S141	1.7
FP5064***	101					-	S024 - S025 - S059 - S093 - S104	1.7
FP5091***	110					-	S025 - S031 - S033 - S113 - S267	2.2
FP6032***	32				KVG6 See page 99	S081 - S082	S021 - S035	1.8
FP6045***	45					S070 - S075 - S080 - S081 - S082	S021 - S025 - S026 - S027 - S069 - S077 - S125 - S198 - S207 - S215 - S253	2.1
FP6058***	58					S079 - S080 - S081 - S082	S024 - S025 - S026 - S027 - S038 - S077 - S078 - S207 - S215 - S237	2.4
FP6070***	70					S080	-	3.0
FP6082***	82	258	240	17		S080 - S081	S038 - S141 - 198 - 215	3.3
FP6086***	86					S090 - S092 - S166 - S091	S021 - S026 - S027 - S077 - S078 - S114 - S132 - 198 - S200	3.4
FP6101***	101					-	S027 - S035 - S113 - S132 - S148 - S176 - S228	4.2
FP6110***	110					S080	S111	5.5
FP7052***	52				KVG7 See page 99	-	S028 - S108 - S112 - S133 - S192	4.4
FP7066***	66					S090 - S092 - S166	-	4.8
FP7069***	69	288	258	22		-	S108 - S143 - S148 - S192 - S201 - S204 - S281 - S282	4.9
FP7086***	86					S091 - S092 - S117 - S166 -	S022 - S027 - S028 - S108 - S112 - S184 - S192 - S201 - S228 - S300	5.2
FP7111***	111					S091 - S092 - S117 - S145	S028 - S108 - S112 - S133 - S184	6.3

Pump flange code to be complete with available pump interface

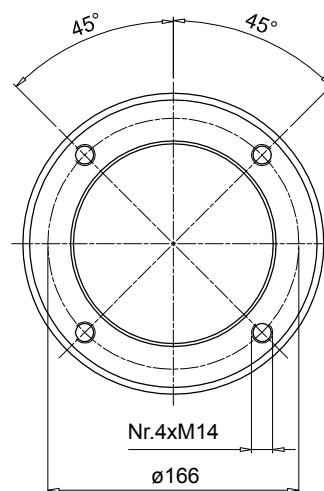
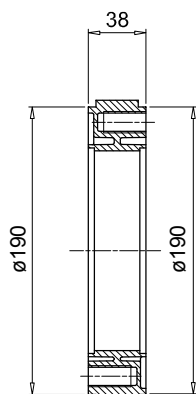
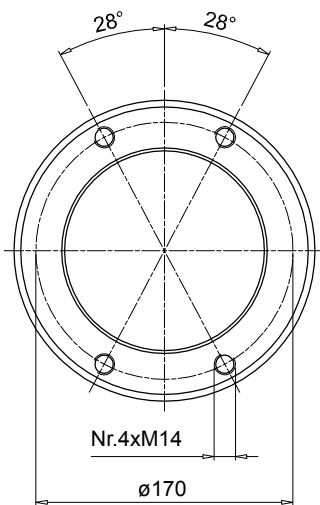
Example: FP6032S021



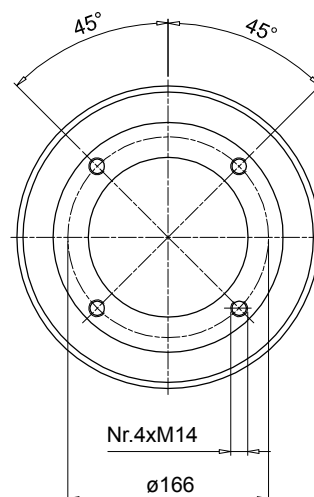
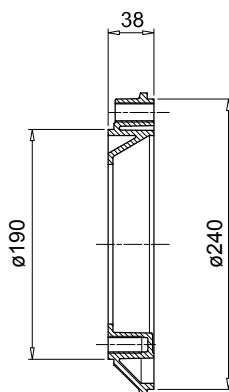
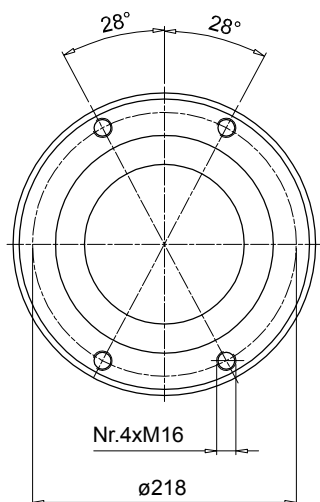


Flange interface

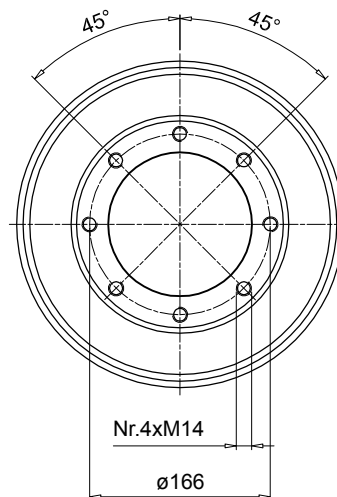
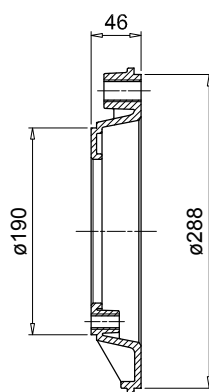
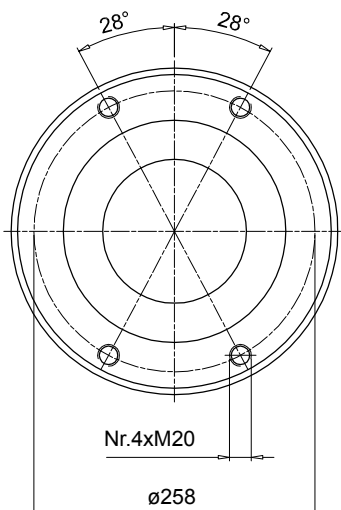
Motor base interface



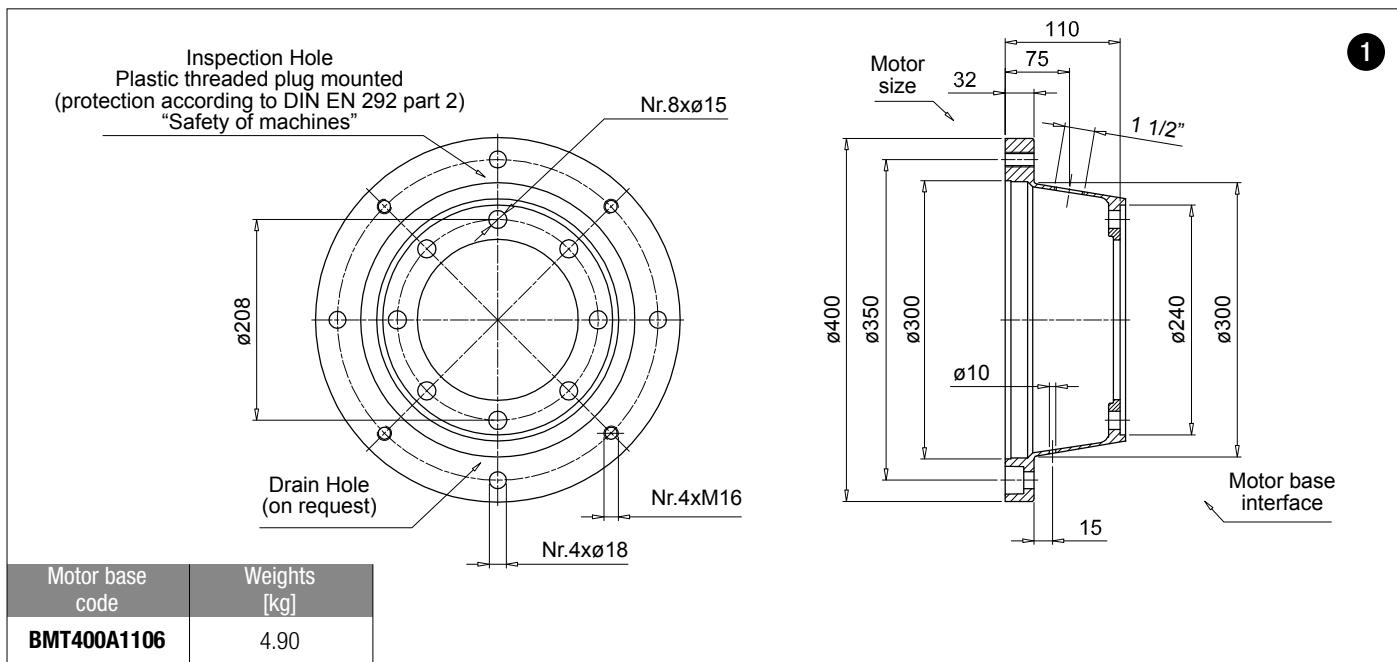
Code	Weights [kg]
AD50385	1.00



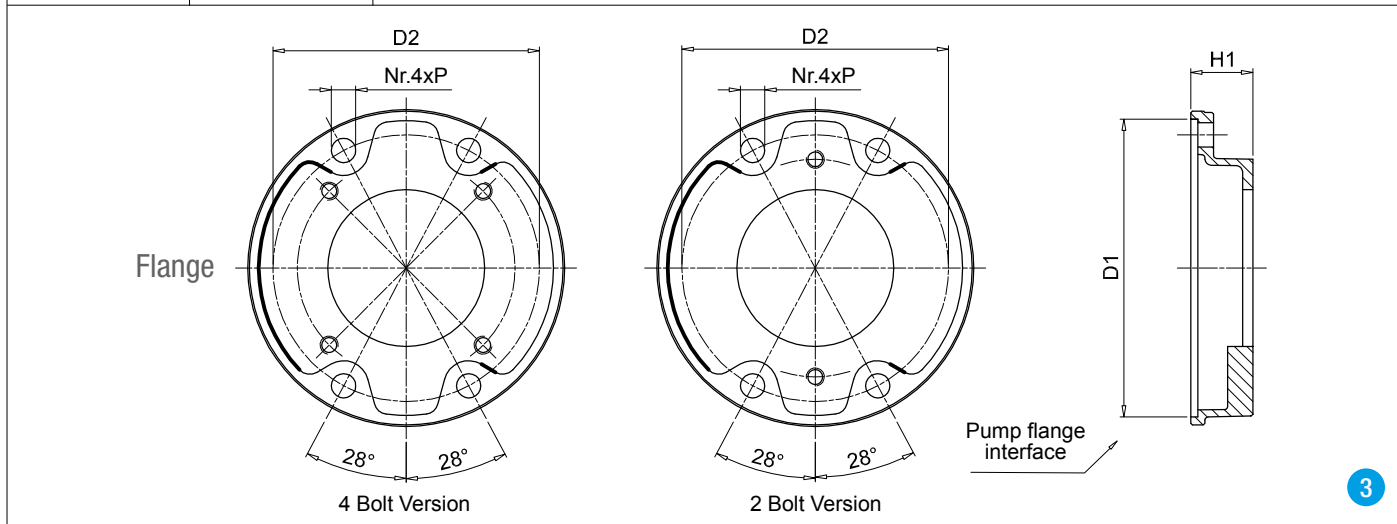
Code	Weights [kg]
AD50386	1.25



Code	Weights [kg]
AD50467	1.90



1



3

Pump flange code	H1	D1	D2	P	Mounting kit	Available pump interface		Weights [kg]	
						2 Bolt	4 Bolt		
FP5026***	32				KVG5 See page 99	S023 - D042 - S063 - S070 - S072 S075	S024 - S024 - S033 - S125 - S154	1	
FP5032***	45			-		S024 - S031 - S096 - S125	1.1		
FP5035***	58			S023 - D042 - S063 - S070 - S072 - S075 - S060 - S072 - S074 - S075 - S106		S021 - S024 - S025 - S026 - S031 - S059 - S068 - S083 - S097 - S125 - S141	0.9		
FP5045***	70			S060 - S070 - S071 - S072 - S074 - S075 - S106		S021 - S024 - S025 - S026 - S068 - S125 - S141	0.9		
FP5056***	82	190	170	15		S072	S021 - S026	1.6	
FP5063***	86					S070 - S079 - S138	S021 - S025 - S068 - S141	1.7	
FP5064***	101					-	S024 - S025 - S059 - S093 - S104	1.7	
FP5091***	110					-	S025 - S031 - S033 - S113 - S267	2.2	
FP6032***	32					KVG6 See page 99	S081 - S082	S021 - S035	1.8
FP6045***	45			S070 - S075 - S080 - S081 - S082			S021 - S025 - S026 - S027 - S069 - S077 - S125 - S198 - S207 - S215 - S253	2.1	
FP6058***	58			S079 - S080 - S081 - S082	S024 - S025 - S026 - S027 - S038 - S077 - S078 - S207 - S215 - S237		2.4		
FP6070***	70			S080	-		3.0		
FP6082***	82	258	240	17	S080 - S081		S038 - S141 - 198 - 215	3.3	
FP6086***	86				S090 - S092 - S166 - S091		S021 - S026 - S027 - S077 - S078 - S114 - S132 - 198 - S200	3.4	
FP6101***	101				-		S027 - S035 - S113 - S132 - S148 - S176 - S228	4.2	
FP6110***	110				S080		S111	5.5	
FP7052***	52				KVG7 See page 99		-	S028 - S108 - S112 - S133 - S192	4.4
FP7066***	66						S090 - S092 - S166	-	4.8
FP7069***	69	288	258	22		-	S108 - S143 - S148 - S192 - S201 - S204 - S281 - S282	4.9	
FP7086***	86					S091 - S092 - S117 - S166 -	S022 - S027 - S028 - S108 - S112 - S184 - S192 - S201 - S228 - S300	5.2	
FP7111***	111					S091 - S092 - S117 - S145	S028 - S108 - S112 - S133 - S184	6.3	

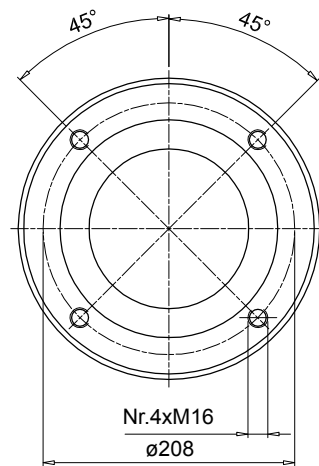
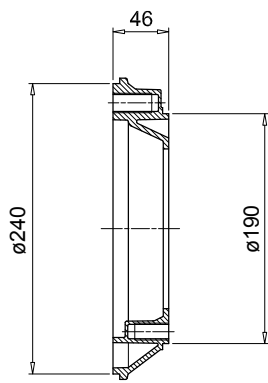
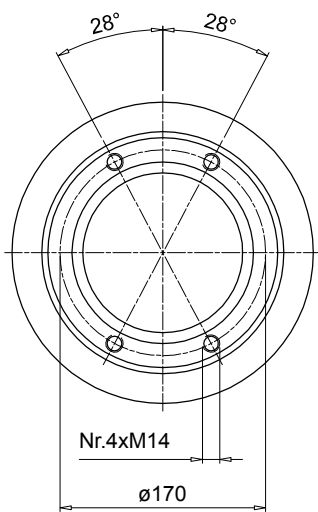
Pump flange code to be complete with available pump interface

Example: **FP6032S021**

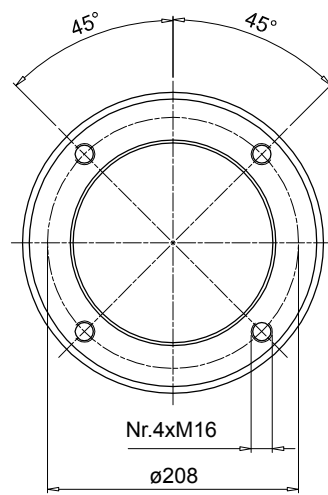
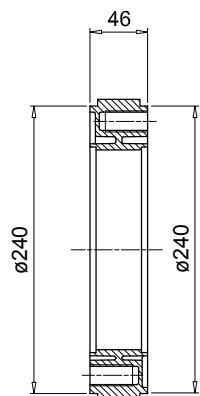
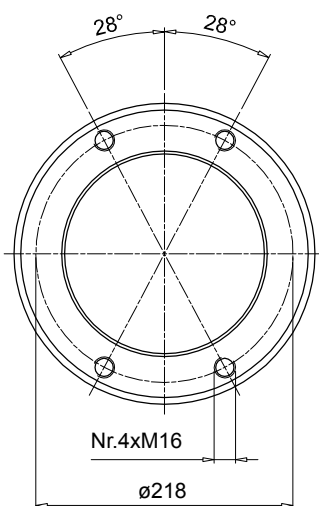


Flange interface

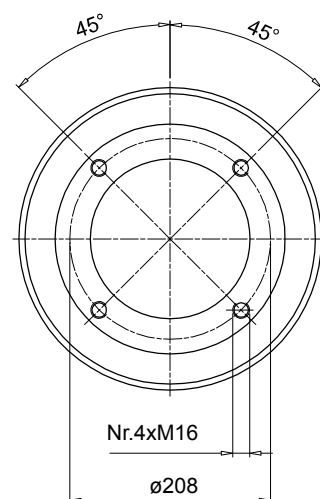
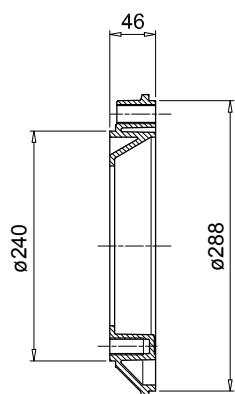
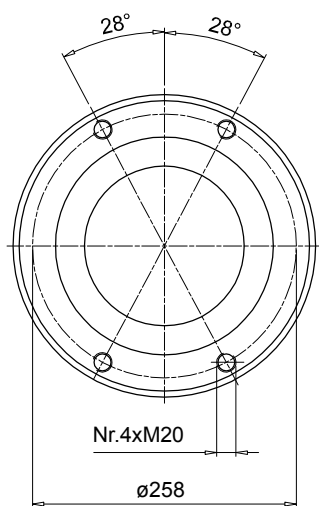
Motor base interface



Code	Weights [kg]
AD60465	1.30



Code	Weights [kg]
AD60466	1.60

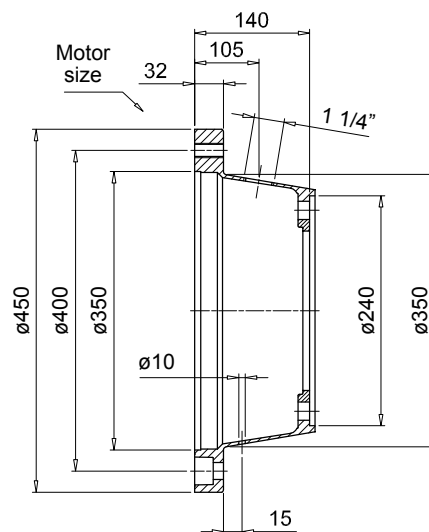
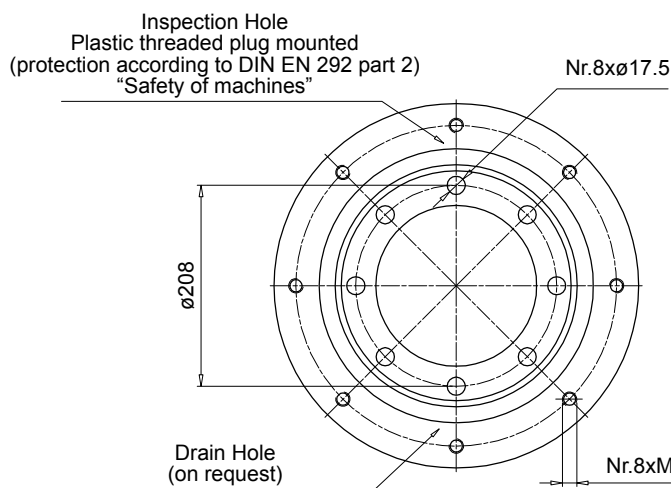


Code	Weights [kg]
AD60467	2.50

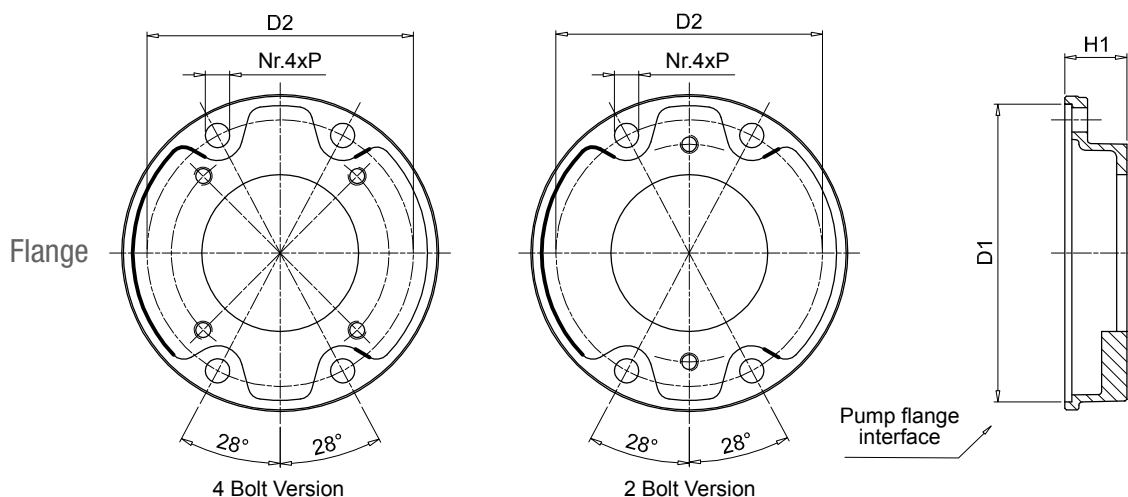


MULTI-COMPONENTS 3

BMT450



Motor base code	Weights [kg]
BMT450A1406	5.00



Pump flange code	H1	D1	D2	P	Mounting kit	Available pump interface		Weights [kg]	
						2 Bolt	4 Bolt		
FP5026***	32				KVG5 See page 99	S023 - D042 - S063 - S070 - S072 S075	S024 - S024 - S033 - S125 - S154	1.0	
FP5032***	45			-		S024 - S031 - S096 - S125	1.1		
FP5035***	58			S023 - D042 - S063 - S070 - S072 - S075 - S060 - S072 - S074 - S075 - S106		S021 - S024 - S025 - S026 - S031 - S059 - S068 - S083 - S097 - S125 - S141	0.9		
FP5045***	70			S060 - S070 - S071 - S072 - S074 - S075 - S106		S021 - S024 - S025 - S026 - S068 - S125 - S141	0.9		
FP5056***	82	190	170	15		S072	S021 - S026	1.6	
FP5063***	86					S070 - S079 - S138	S021 - S025 - S068 - S141	1.7	
FP5064***	101					-	S024 - S025 - S059 - S093 - S104	1.7	
FP5091***	110					-	S025 - S031 - S033 - S113 - S267	2.2	
FP6032***	32					KVG6 See page 99	S081 - S082	S021 - S035	1.8
FP6045***	45						S070 - S075 - S080 - S081 - S082	S021 - S025 - S026 - S027 - S069 - S077 - S125 - S198 - S207 - S215 - S253	2.1
FP6058***	58				S079 - S080 - S081 - S082		S024 - S025 - S026 - S027 - S038 - S077 - S078 - S207 - S215 - S237	2.4	
FP6070***	70				S080		-	3.0	
FP6082***	82	258	240	17	S080 - S081		S038 - S141 - 198 - 215	3.3	
FP6086***	86				S090 - S092 - S166 - S091		S021 - S026 - S027 - S077 - S078 - S114 - S132 - 198 - S200	3.4	
FP6101***	101				-		S027 - S035 - S113 - S132 - S148 - S176 - S228	4.2	
FP6110***	110				S080		S111	5.5	
FP7052***	52				KVG7 See page 99	-	S028 - S108 - S112 - S133 - S192	4.4	
FP7066***	66					S090 - S092 - S166	-	4.8	
FP7069***	69	288	258	22		-	S108 - S143 - S148 - S192 - S201 - S204 - S281 - S282	4.9	
FP7086***	86					S091 - S092 - S117 - S166 -	S022 - S027 - S028 - S108 - S112 - S184 - S192 - S201 - S228 - S300	5.2	
FP7111***	111					S091 - S092 - S117 - S145	S028 - S108 - S112 - S133 - S184	6.3	

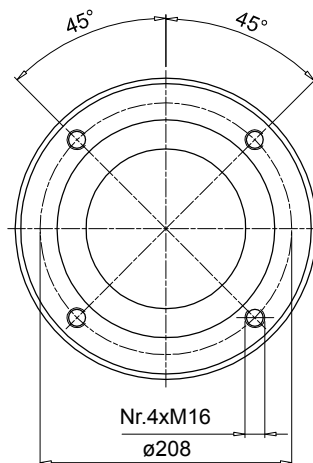
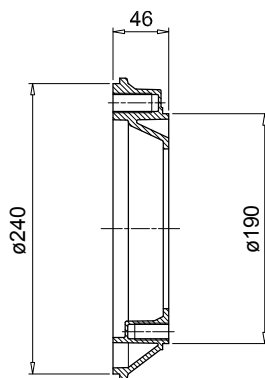
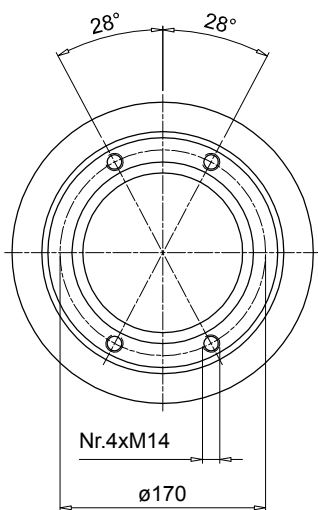
Pump flange code to be complete with available pump interface

Example: **FP6032S021**

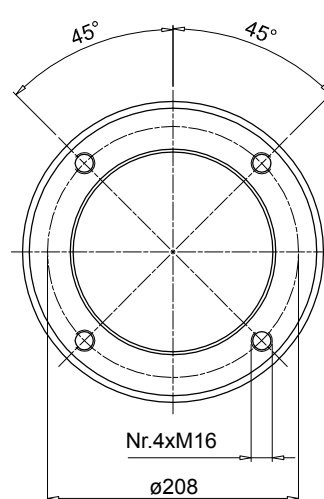
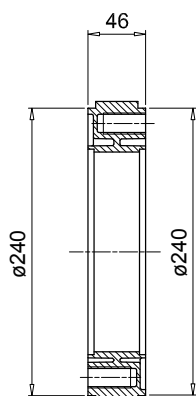
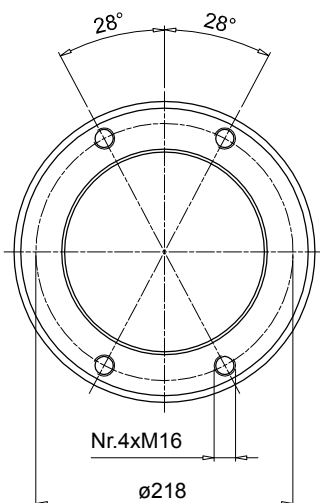


Flange interface

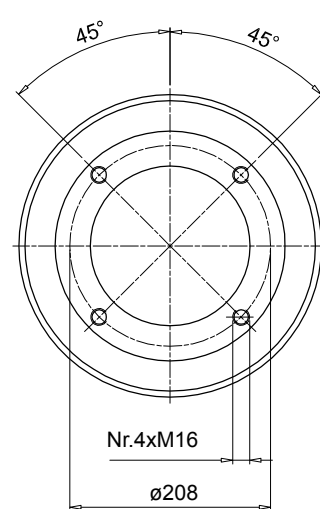
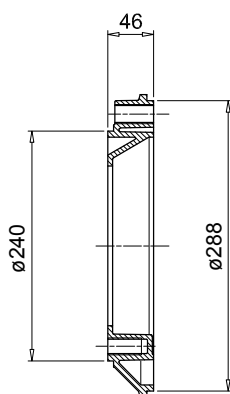
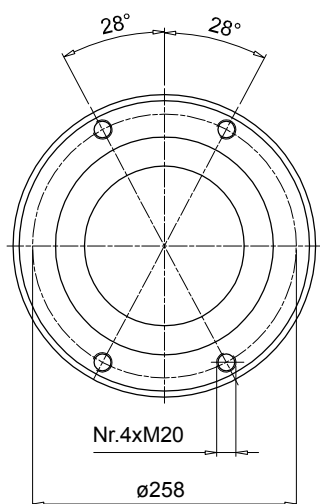
Motor base interface



Code	Weights [kg]
AD60465	1.30



Code	Weights [kg]
AD60466	1.60

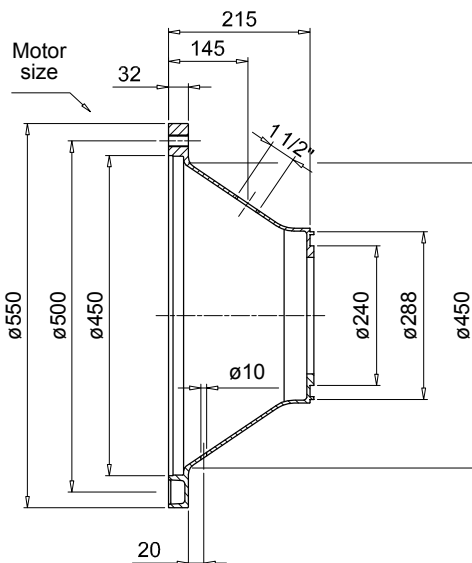
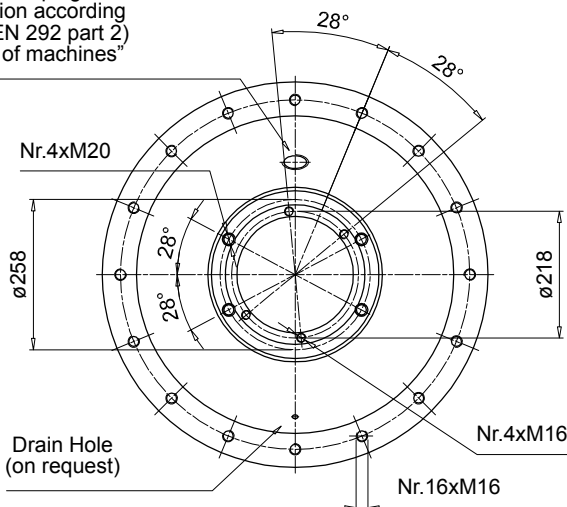


Code	Weights [kg]
AD60467	2.50

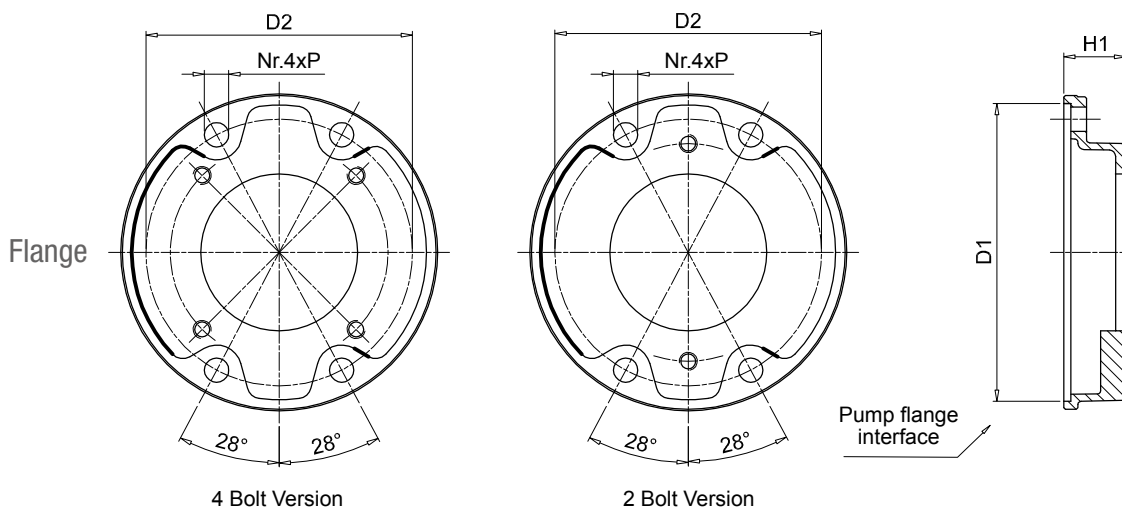


1

Inspection Hole
Plastic threaded plug mounted
(protection according
to DIN EN 292 part 2)
"Safety of machines"



Motor base code	Weights [kg]
BMT550A21567	8.80



3

Pump flange code	H1	D1	D2	P	Mounting kit	Available pump interface		Weights [kg]	
						2 Bolt	4 Bolt		
FP6032***	32				KVG6 See page 99	S081 - S082	S021 - S035	1.8	
FP6045***	45			S070 - S075 - S080 - S081 - S082		S021 - S025 - S026 - S027 - S069 - S077 - S125 - S198 - S207 - S215 - S253	2.1		
FP6058***	58			S079 - S080 - S081 - S082		S024 - S025 - S026 - S027 - S038 - S077 - S078 - S207 - S215 - S237	2.4		
FP6070***	70	258	240	S080		-	3.0		
FP6082***	82			S080 - S081		S038 - S141 - 198 - 215	3.3		
FP6086***	86			S090 - S092 - S166 - S091		S021 - S026 - S027 - S077 - S078 - S114 - S132 - 198 - S200	3.4		
FP6101***	101			-		S027 - S035 - S113 - S132 - S148 - S176 - S228	4.2		
FP6110***	110			S080		S111	5.5		
FP7052***	52					KVG7 See page 99	-	S028 - S108 - S112 - S133 - S192	4.4
FP7066***	66			S090 - S092 - S166			-	4.8	
FP7069***	69	288	258	22	-		S108 - S143 - S148 - S192 - S201 - S204 - S281 - S282	4.9	
FP7086***	86			S091 - S092 - S117 - S166 -	S022 - S027 - S028 - S108 - S112 - S184 - S192 - S201 - S228 - S300		5.2		
FP7111***	111			S091 - S092 - S117 - S145	S028 - S108 - S112 - S133 - S184		6.3		

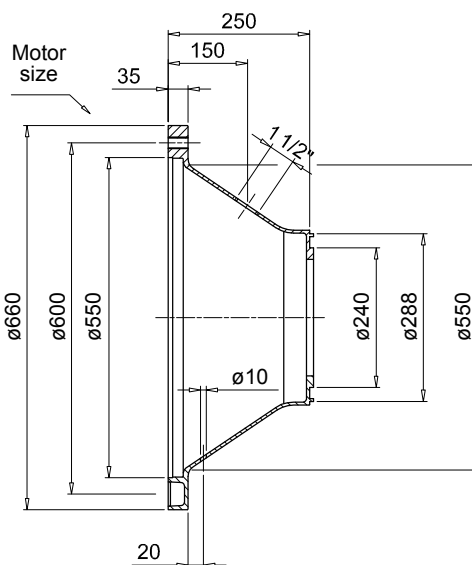
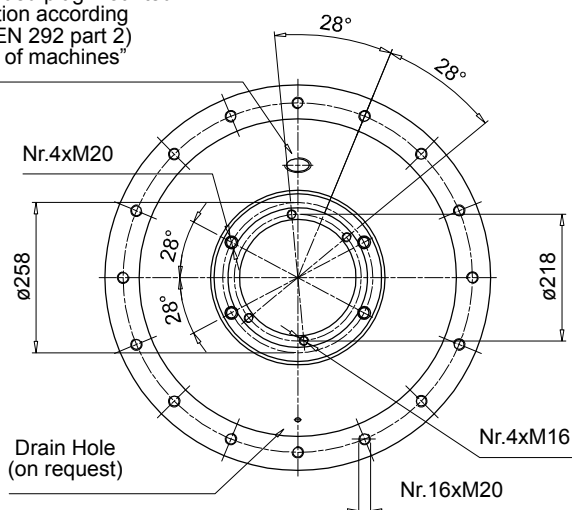
Pump flange code to be complete with available pump interface

Example: **FP6032S021**

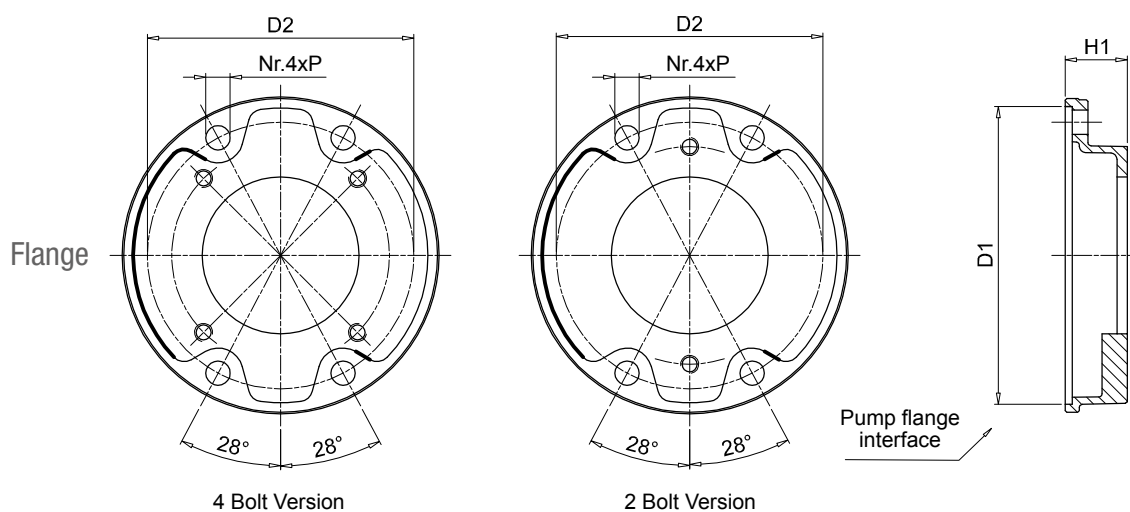


1

Inspection Hole
Plastic threaded plug mounted
(protection according to DIN EN 292 part 2)
"Safety of machines"



Motor base code	Weights [kg]
BMT660A25067	12.00



3

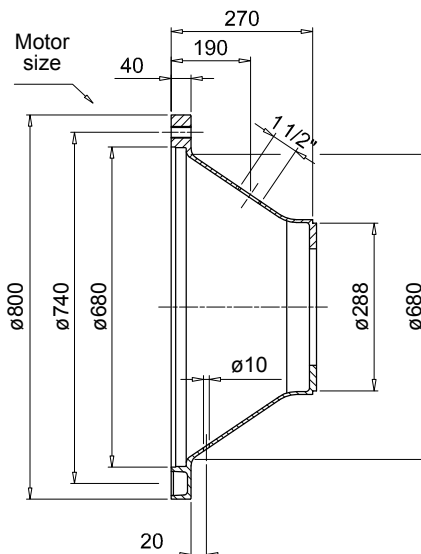
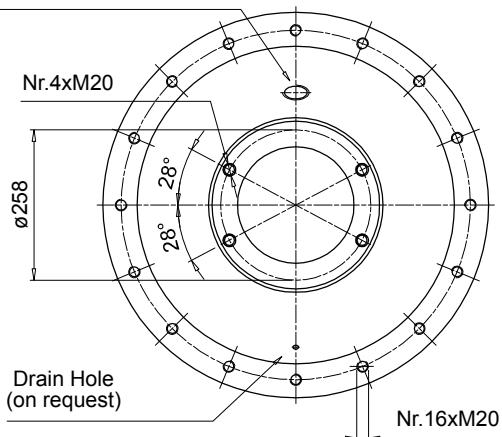
Pump flange code	H1	D1	D2	P	Mounting kit	Available pump interface		Weights [kg]	
						2 Bolt	4 Bolt		
FP6032***	32				KVG6 See page 99	S081 - S082	S021 - S035	1.8	
FP6045***	45			S070 - S075 - S080 - S081 - S082		S021 - S025 - S026 - S027 - S069 - S077 - S125 - S198 - S207 - S215 - S253	2.1		
FP6058***	58			S079 - S080 - S081 - S082		S024 - S025 - S026 - S027 - S038 - S077 - S078 - S207 - S215 - S237	2.4		
FP6070***	70	258	240	17		S080	-	3.0	
FP6082***	82					S080 - S081	S038 - S141 - 198 - 215	3.3	
FP6086***	86					S090 - S092 - S166 - S091	S021 - S026 - S027 - S077 - S078 - S114 - S132 - 198 - S200	3.4	
FP6101***	101					-	S027 - S035 - S113 - S132 - S148 - S176 - S228	4.2	
FP6110***	110					S080	S111	5.5	
FP7052***	52					KVG7 See page 99	-	S028 - S108 - S112 - S133 - S192	4.4
FP7066***	66						S090 - S092 - S166	-	4.8
FP7069***	69	288	258	22	-		S108 - S143 - S148 - S192 - S201 - S204 - S281 - S282	4.9	
FP7086***	86				S091 - S092 - S117 - S166 -		S022 - S027 - S028 - S108 - S112 - S184 - S192 - S201 - S228 - S300	5.2	
FP7111***	111				S091 - S092 - S117 - S145		S028 - S108 - S112 - S133 - S184	6.3	

Pump flange code to be complete with available pump interface
Example: **FP6032S021**

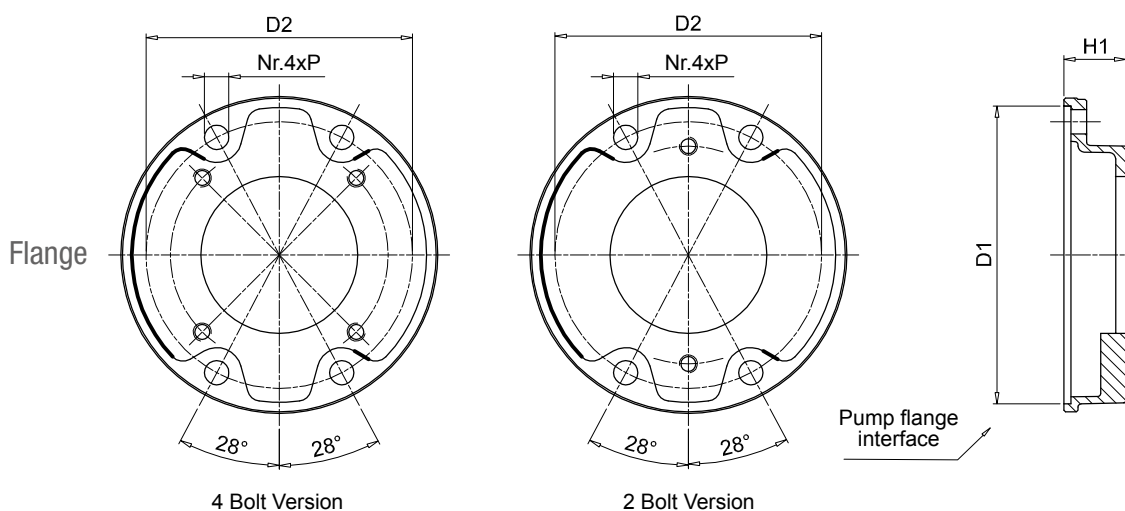


1

Inspection Hole
Plastic threaded plug mounted
(protection according to DIN EN 292 part 2)
"Safety of machines"



Motor base code	Weights [kg]
BAD800A2707	31.00



3

Pump flange code	H1	D1	D2	P	Mounting kit	Available pump interface		Weights [kg]
						2 Bolt	4 Bolt	
FP7052***	52				-		S028 - S108 - S112 - S133 - S192	4.4
FP7066***	66				KVG7	S090 - S092 - S166	-	4.8
FP7069***	69	288	258	22	See page 99	-	S108 - S143 - S148 - S192 - S201 - S204 - S281 - S282	4.9
FP7086***	86					S091 - S092 - S117 - S166 -	S022 - S027 - S028 - S108 - S112 - S184 - S192 - S201 - S228 - S300	5.2
FP7111***	111					S091 - S092 - S117 - S145	S028 - S108 - S112 - S133 - S184	6.3

Pump flange code to be complete with available pump interface

Example: **FP7052S028**



KVG1

Components				
Item	Description	Q.ty	Material	Torque
1	Gasket for auxiliary flange FR1	1	Paper	-
2	Screw T.C.E.I. M8x20 UNI-5931 8.8	4	Steel	15 Nm

KVG5

Components				
Item	Description	Q.ty	Material	Torque
1	Gasket for auxiliary flange FP5 / AD5	1	Paper	-
2	Screw T.C.E.I. M14x35 UNI-5931 8.8	4	Steel	90 Nm
3	Washer Schnorr 14	4	Steel	-

KVG6

Components				
Item	Description	Q.ty	Material	Torque
1	Gasket for auxiliary flange FP6 / AD6	1	Paper	-
2	Screw T.C.E.I. M16x35 UNI-5931 8.8	4	Steel	130 Nm
3	Washer Schnorr 16	4	Steel	-

KVG7

Components				
Item	Description	Q.ty	Material	Torque
1	Gasket for auxiliary flange FP7 / AD7	1	Paper	-
2	Screw T.C.E.I. M20x50 UNI-5931 8.8	4	Steel	200 Nm
3	Washer Schnorr 20	4	Steel	-