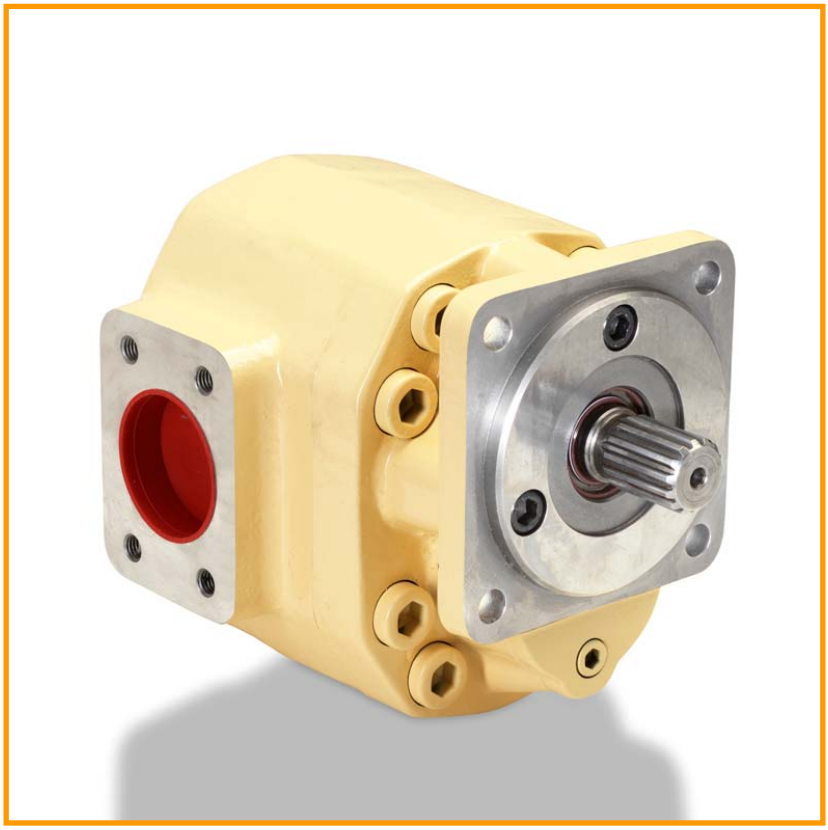
Fluidea

01.06

Gear pumps



Series WA 32 & 40

OPERATING PARAMETERS

Maximum outlet pressure:	See on the following pages
Inlet pressure:	See below*
Speed range:	See on the following pages
Fluid temperature:	Minimum at start up….....-40 °C Maximum continuous.....+80 °C Maximum intermittent .....+100 °C
Fluid viscosity:	Maximum at start up….....2000 mm2/sec Maximum continuous.....250 mm2/sec Minimum continuous.....10 mm2/sec Optimum. 15-25 mm2/sec
Fluid cleanliness class:	ISO4406.....21/16/13 NAS 1638.....9
Fluid velocity:	Maximum in inlet line….....2.5 m/sec Optimum in inlet line….....1.5 m/sec
Fluids:	Hydraulic mineral oils HL and HLP (DIN 51524)
Rotation:	Clockwise (C), anticlockwise (A) and reversibile (D) when applicable, view from shaft end

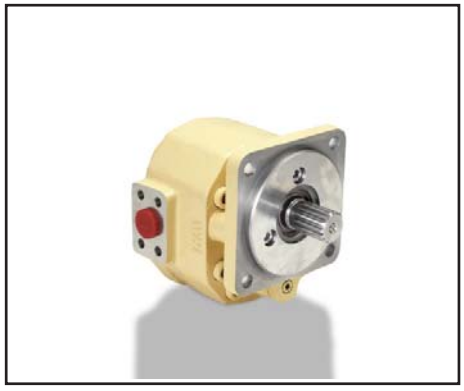
For characteristics diagrams (pressure - flow - efficiency - maximum power) and driving shaft's loads please consult the general tecnical data sheet available on our web site.

*** INLET CONDITIONS:**

It is extremely important that pumps are installed so that they can always fill with fluid in any working condition.

Pumps' inlet ports are designed to facilitate full volume fill, however it is important to obser-ve the following recommendations in order to optimize pump's performance and life:

- Use large diameter pipes and fittings and possibly avoid sharp bends and long lenghts in suction lines to minimize pressure losses; ensure that fluid velocity does not exceed above limits.
- Never run pumps dry; particolar care should be taken to open any shut-off valves.
- If necessary fill inlet line with fluid and ensure that inlet line is air tight.
- Particular care should be taken where high speeds and/or high fluid viscosities are involved. As a general rule pressure at the pump inlet port should not be less tha 0,8 bar absolute @ normal viscosity of 23 mm2/sec



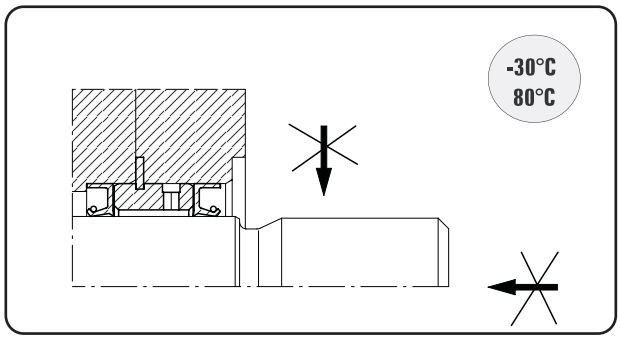
Model	32045	32055	32063	32072	32085	32100
Displacement [ccm/rev]	45	55	63	72	85	100
Rated pressure [MPa]	25					21
Max speed [rpm]	3000					

Seal design | Dimensions data | Drive shaft | Mounting flange | Ports

Ordering key

Pump	Seal design	Group	Displacement [ccm/rev.]	Drive shaft	Flanges	Ports	Rotation A- anticlockwise C- clockwise
W	C	32	055	C	5	A1	C
W	A C	32	045 063 055 072 085 100	C G	2 3 4 5	A1 B26	A C

Seal design, Installation dimensions



code A, C

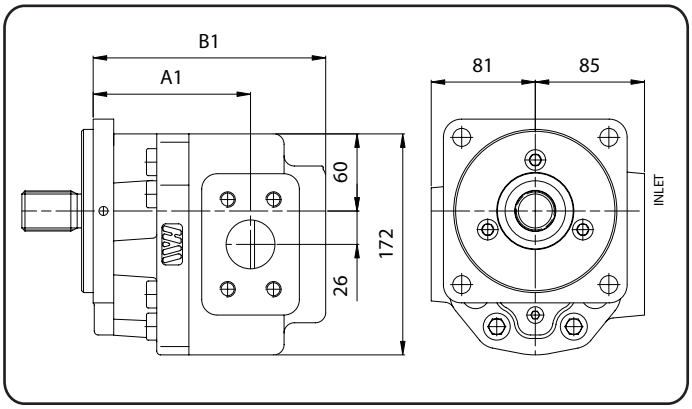
code A

Suitable for external drives and flexible coupling

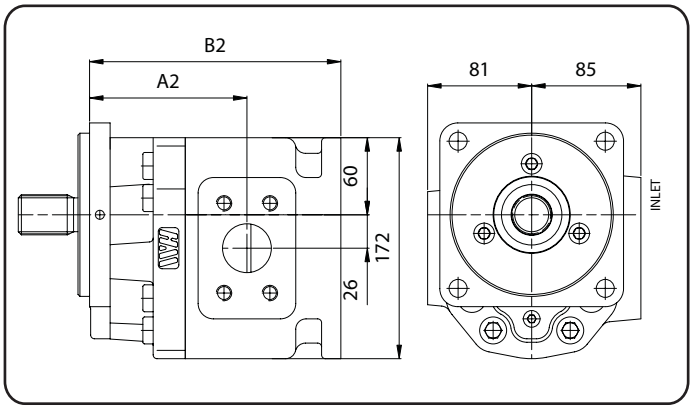
code C

Visible-bleed drilling suitable for drives with no load for direct mounting on torque converters and gear boxes

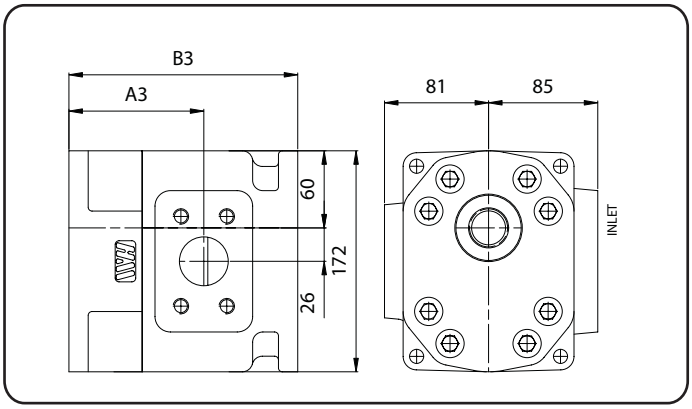
Installation dimensions



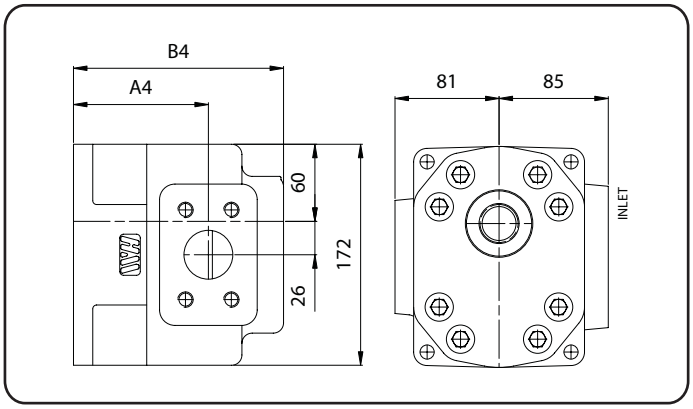
Single unit



Front unit



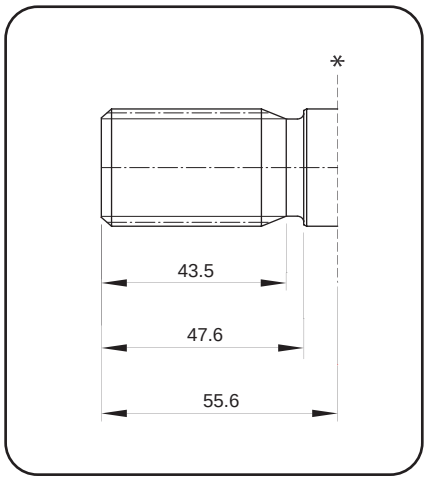
Intermediate unit



Rear unit

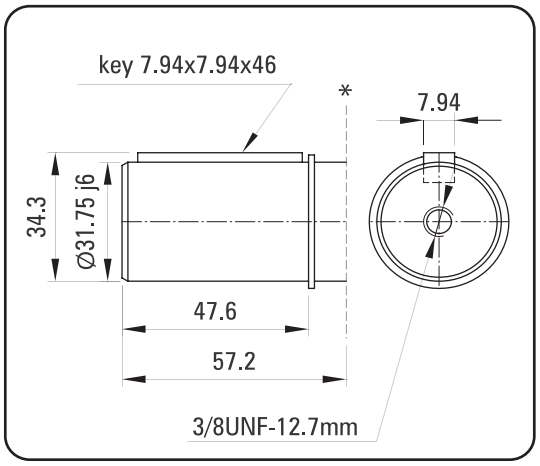
	Single unit		Front unit		Intermediate unit		Rear unit	
Series	A1	B1	A2	B2	A3	B3	A4	B4
32045	118	176,5	118	191	100,5	173,5	100,5	159
32055	118	176,5	118	191	100,5	173,5	100,5	159
32063	122,5	181	122,5	195,5	105	178	105	163,5
32072	127,5	186	127,5	200,5	110	183	110	168,5
32085	134	192,5	134	207	116,5	189,5	116,5	175
32100	143	201,5	143	216	125,5	198,5	125,5	184

Drive shafts



involute spilne	SAE C
	1.250"
side fit	flat root
diametral pitch	12/24
pressure angle	30 °
number of teeth	14
major diameter	31,20/ 31,12

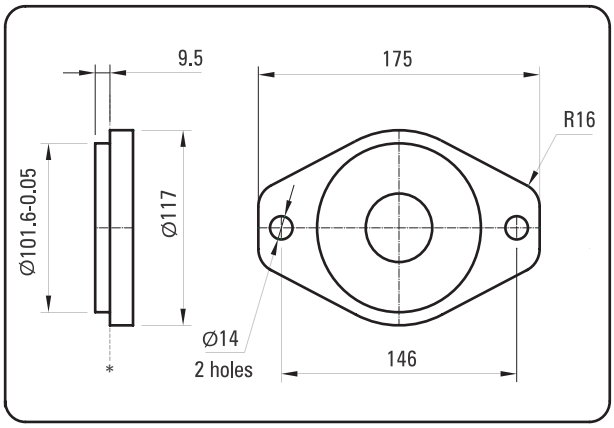
code C



code G

Mounting flanges

SAE B



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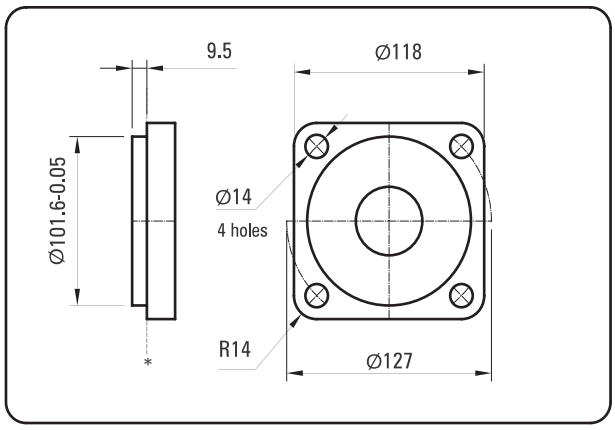
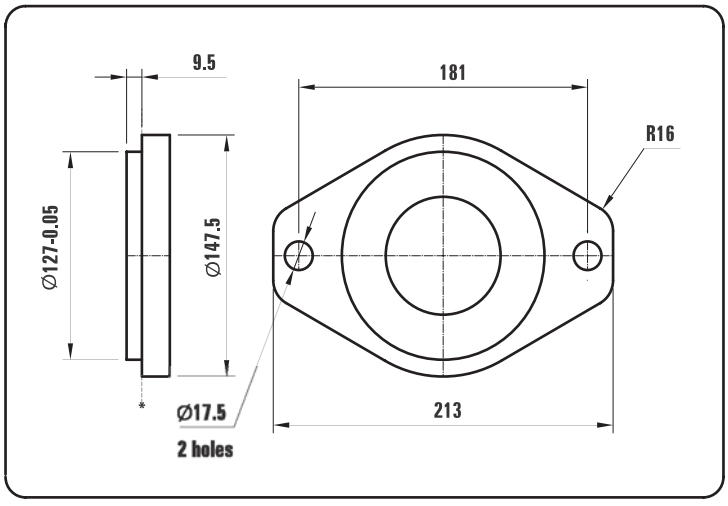


code 3

SAE C



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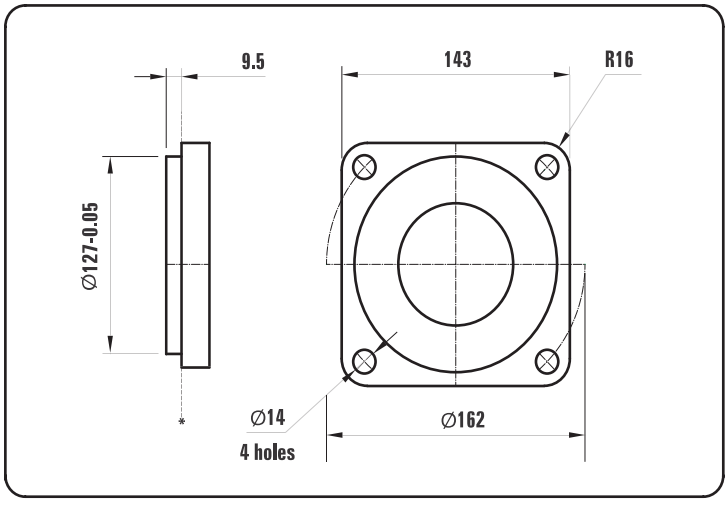

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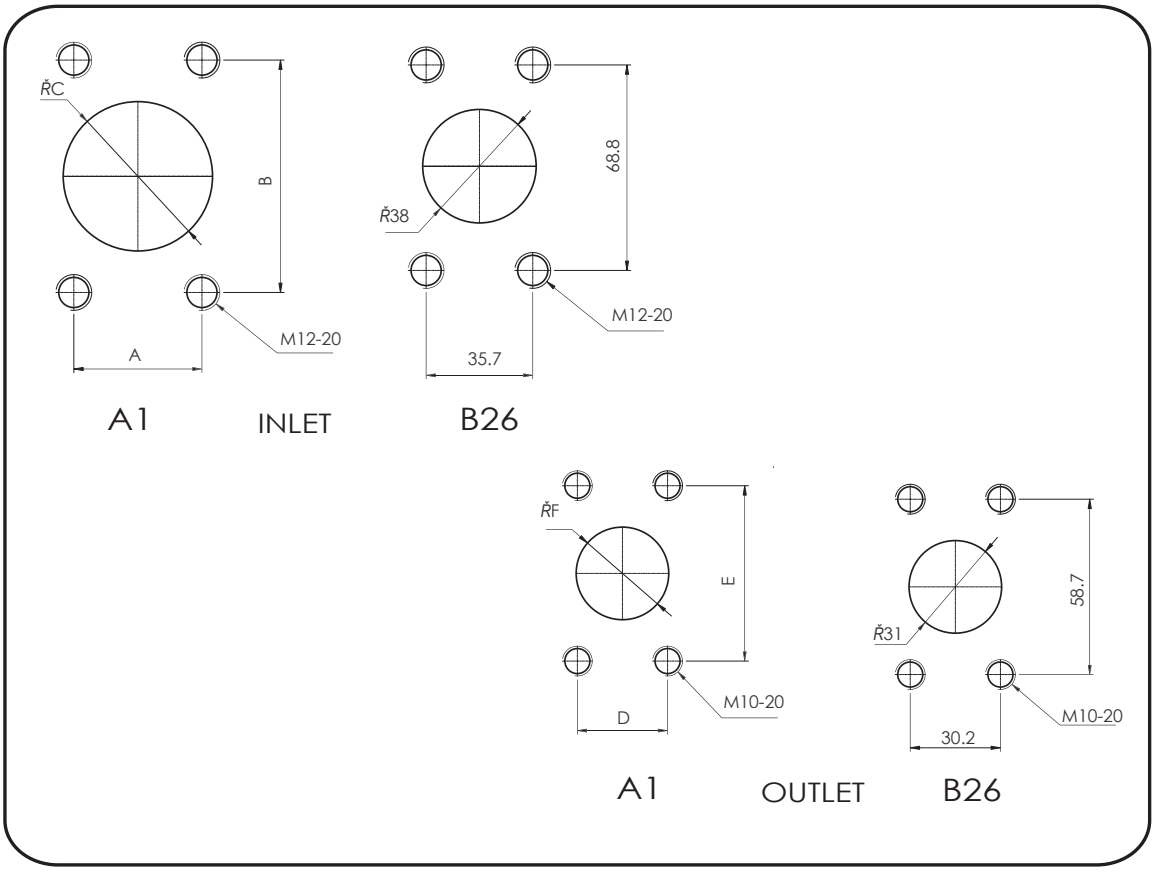
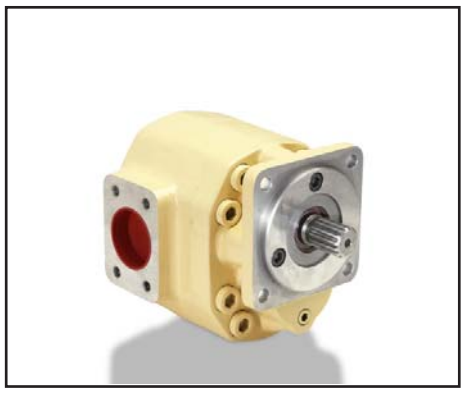


Series	INLET: A1			OUTLET: A1		
	A	B	C	D	E	F
32045	69,8	35,7	38	30,2	52,4	31
32055	69,8	35,7	38	30,2	52,4	31
32063	69,8	35,7	38	30,2	52,4	31
32072	69,8	35,7	38	30,2	58,7	31
32085	69,8	35,7	38	30,2	58,7	31
32100	69,8	35,7	38	30,2	58,7	31



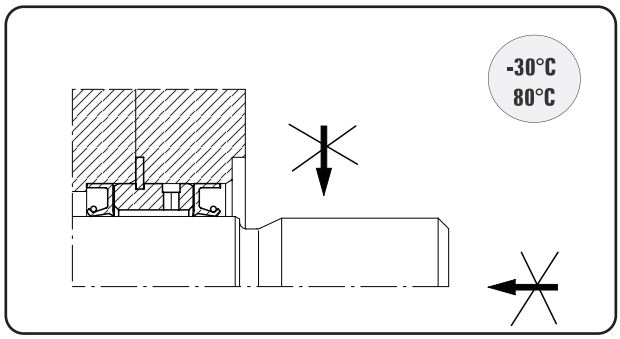
Model	40100	40118	40137	40155	40176	40200
Displacement [ccm/rev]	100	118	137	155	176	200
Rated pressure [Mpa]	25	25	25	25	21	20

Seal design | Dimensions data | Drive shaft | Mounting flange | Ports

Ordering key

Pump	Seal design	Group	Displacement [ccm/rev.]	Drive shaft	Flanges	Ports	Rotation A- anticlockwise C- clockwise
W	C	40	055	C	5	A1	C
W	A C	40	100 118 137 155 176 200	C G	4 5	A1 B26	A C

Seal design, Installation dimensions



code A, C

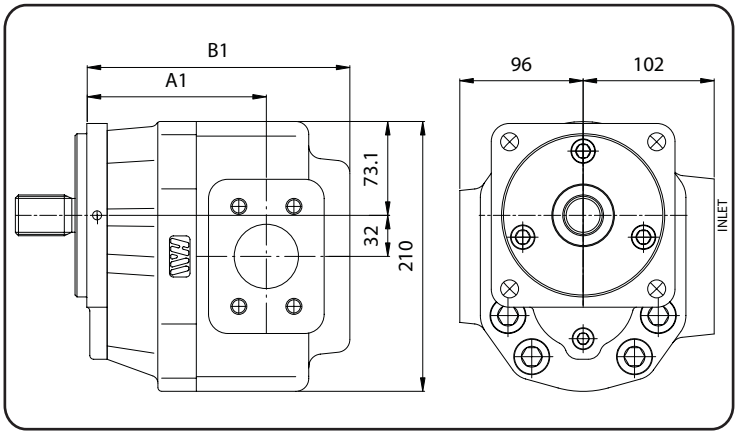
code A

Suitable for external drives and flexible coupling

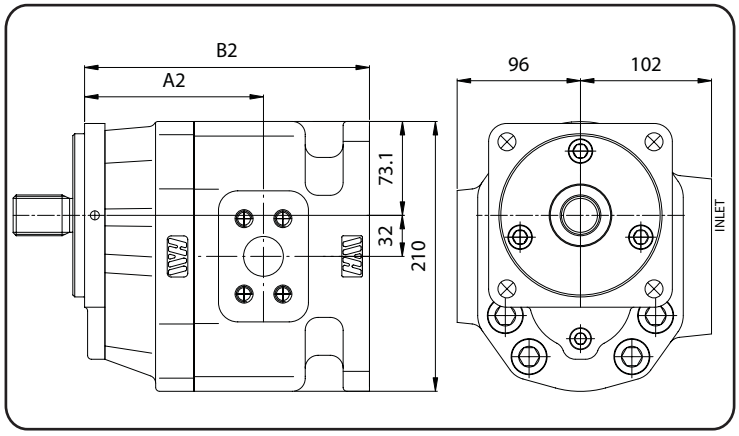
code C

Visible-bleed drilling suitable for drives with no load for direct mounting on torque converters and gear boxes

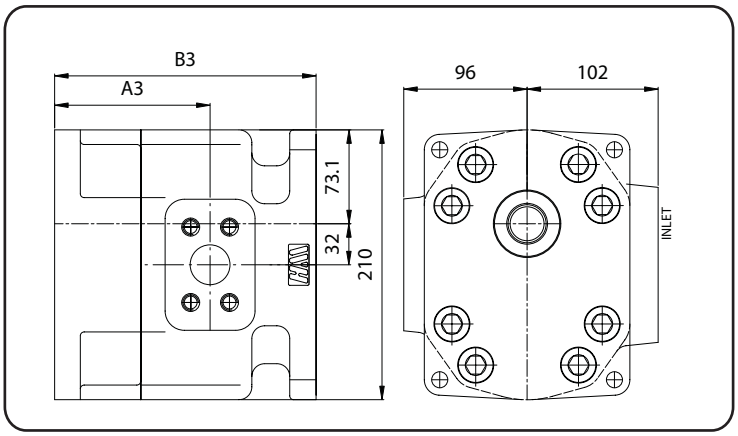
Installation dimensions



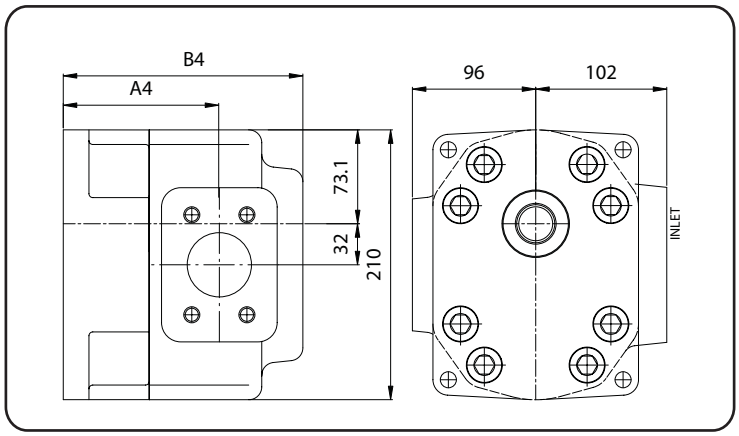
Single unit



Front unit



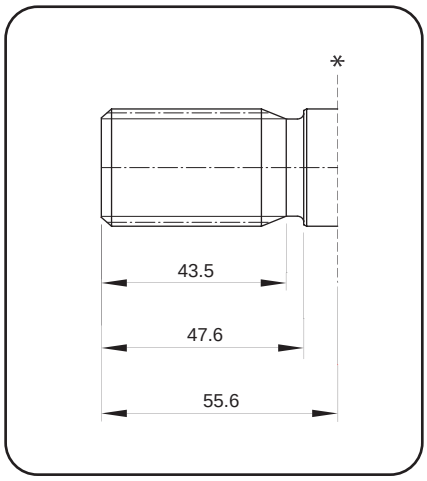
Intermediate unit



Rear unit

	Single unit		Front unit		Intermediate unit		Rear unit	
Series	A1	B1	A2	B2	A3	B3	A4	B4
40100	139	204,5	139,5	221,5	121,5	203,5	121	186,5
40118	146	211,5	146,5	228,5	128,5	210,5	128	193,5
40137	152,5	217,5	153,5	235,5	135	217	134,5	199,5
40155	139	223,5	139,5	241,5	121	223,5	121	205,5
40176	146,5	231,5	146,5	249,5	128,5	231	128,5	213
40200	155	239,5	155,5	257,5	137	239,5	137	221,5

Drive shafts



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diametral pitch	12/24
pressure angle	30 °
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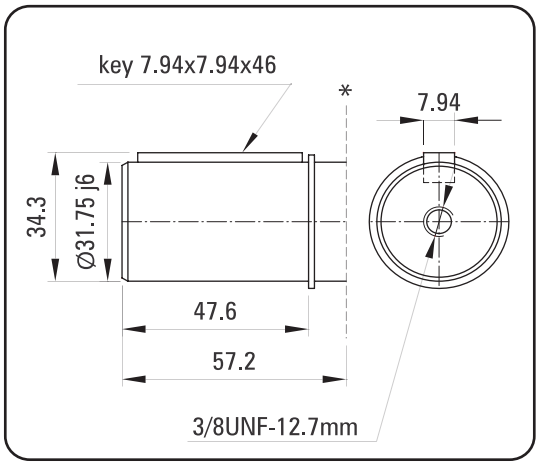
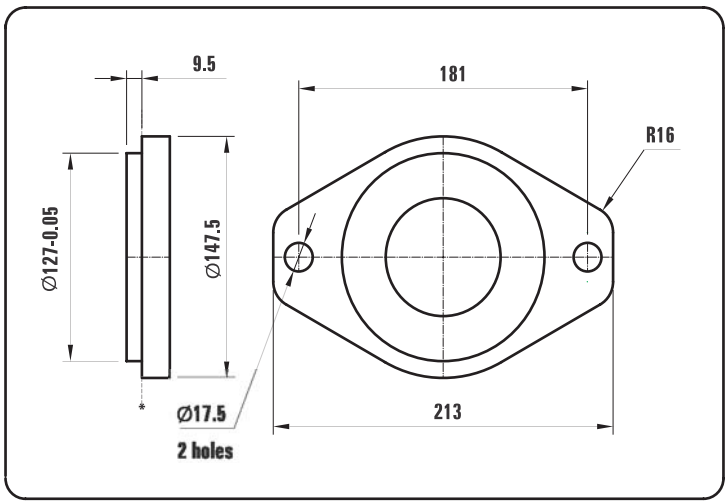


code G

Mounting flanges

SAE C



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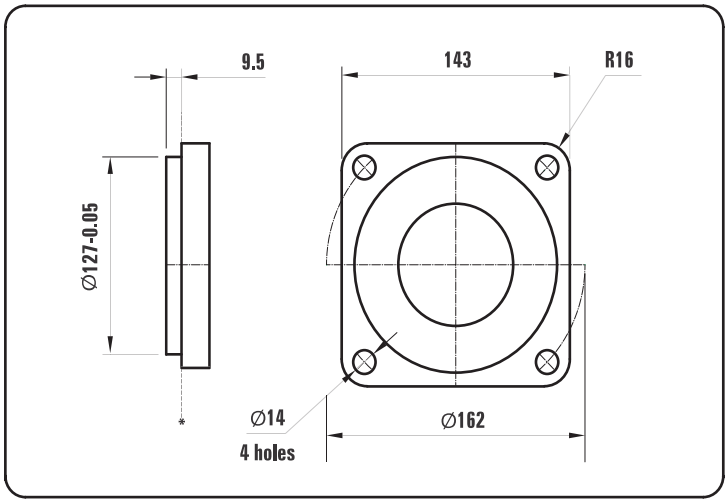
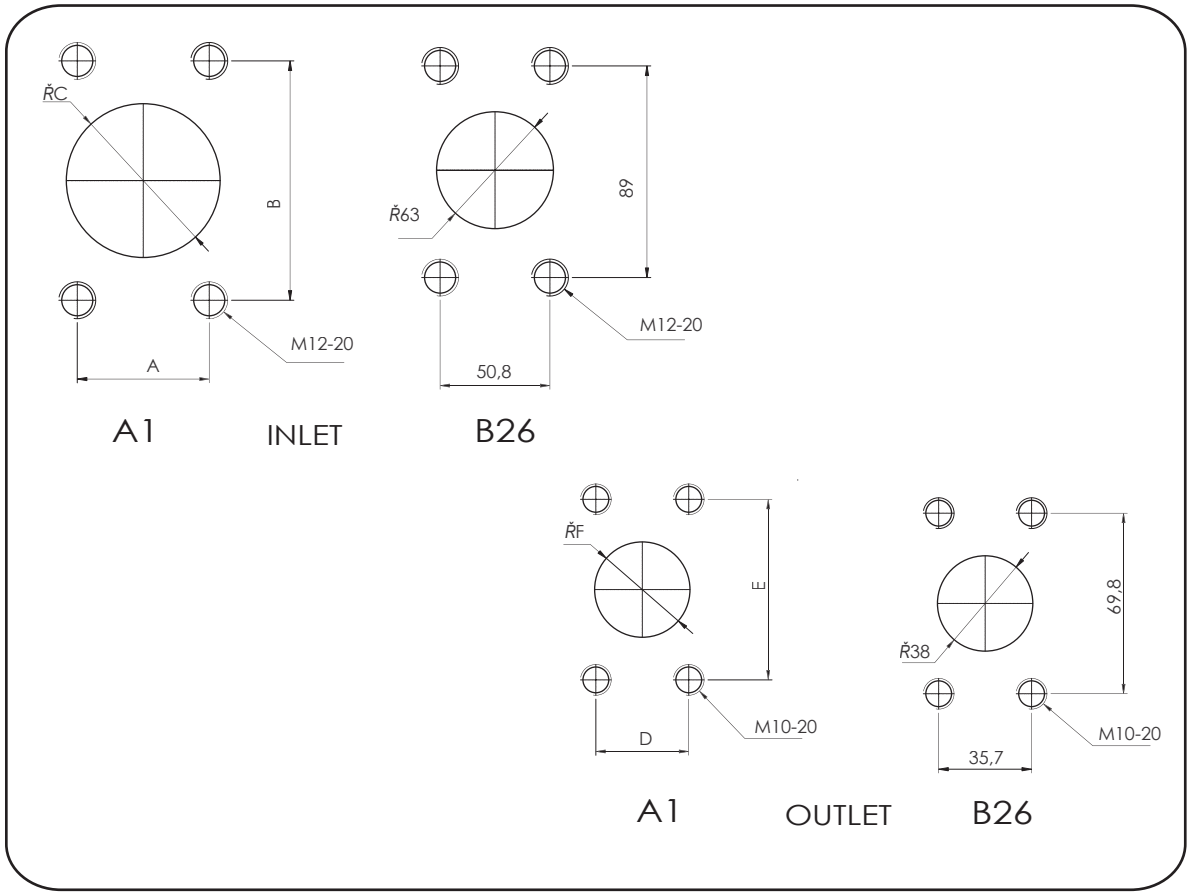


code 5

Ports



Series	INLET: A1			OUTLET: A1		
	A	B	C	D	E	F
40100	35,7	69,8	38	30,2	58,7	31
40118	42,8	77,8	50	30,2	58,7	31
40137	42,8	77,8	50	30,2	58,7	31
40155	42,8	77,8	50	30,2	58,7	31
40176	50,8	89,0	63	35,7	69,8	38
40200	50,8	89,0	63	35,7	69,8	38

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