

CMV.
Variable Displacement Motor.
Bent Axis Design.

Linde Hydraulics

Linde

PRODUCT



Pressure
Level

- ☒ High Pressure Hydraulics
☐ Medium Pressure Hydraulics

Application

- ☒ Open Circuit
☒ Closed Circuit

DOCUMENT

Specification

- ☐ Inquiry Form (Modelcode & Availability)
☒ **Datasheet**

Operation

- ☐ Basic Instructions
☐ Additional Instructions

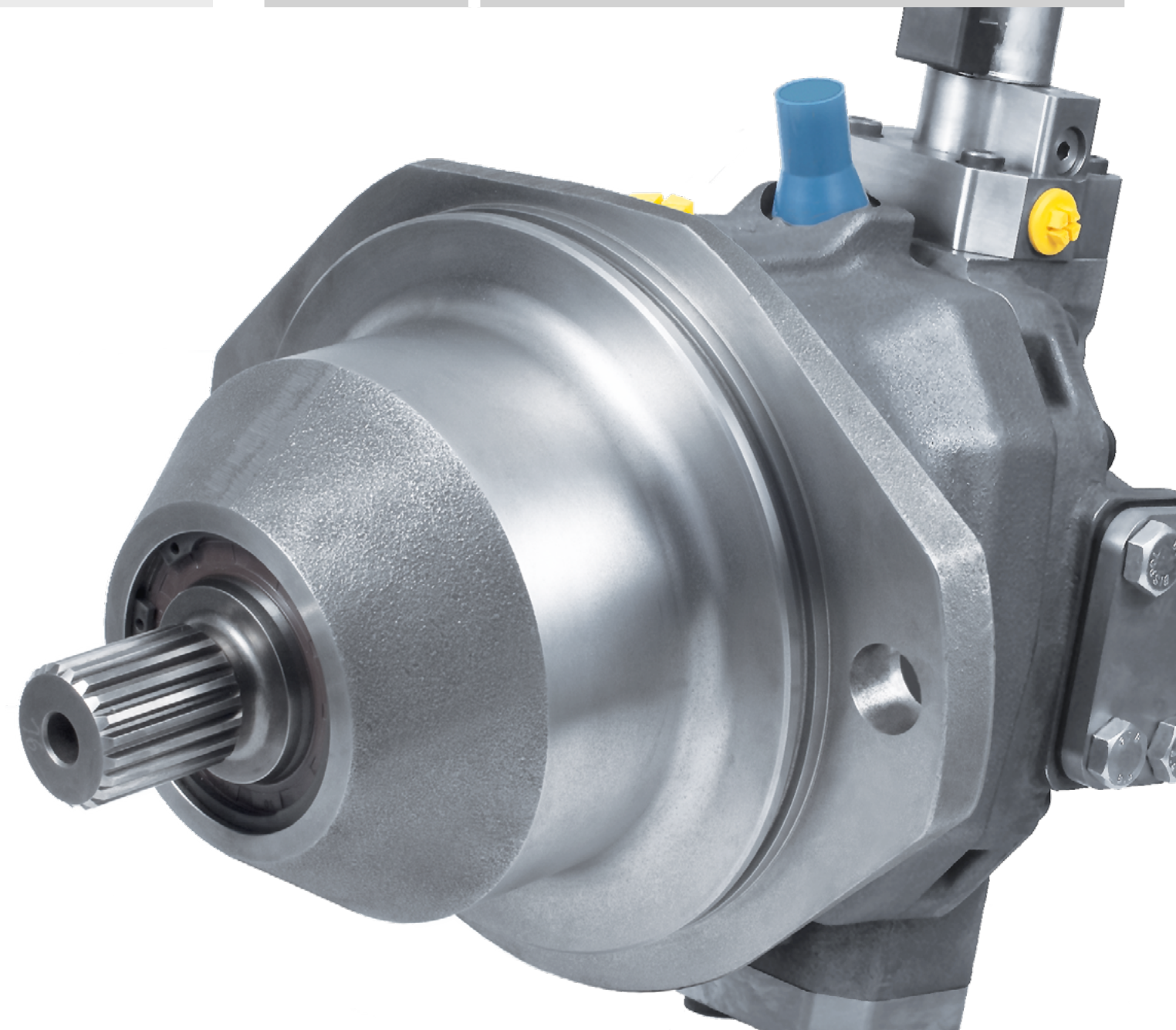
Assembly

- ☐ Basic Instructions
☐ Additional Instructions

Release

19/04/2023

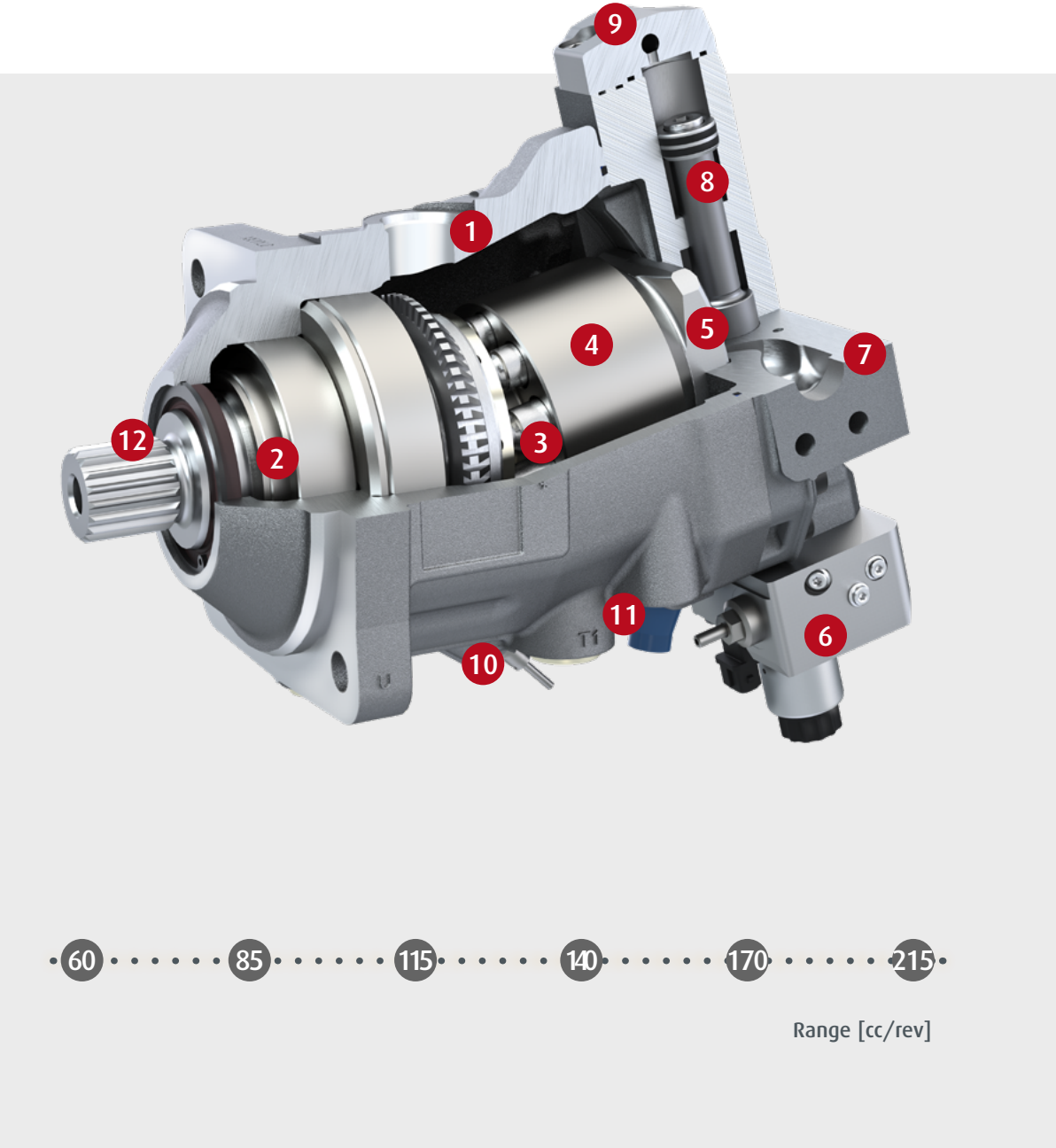
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Overview | Key Facts

In the following you will find the design characteristics and related advantages of the CMV. The components mentioned here are referred to repeatedly in the following sections of this datasheet.

With the next generation of the bent axis motors, Linde Hydraulics expands its customer oriented portfolio of high-quality components for hydraulic systems. Due to their standardized interfaces, e.g. the plug-in flange according to ISO, the CMV and CMF fit a high variety of applications, without the need of adaptors. The motors enable a more cost effective operation of the respective applications thanks to low windage losses and lighter weight.

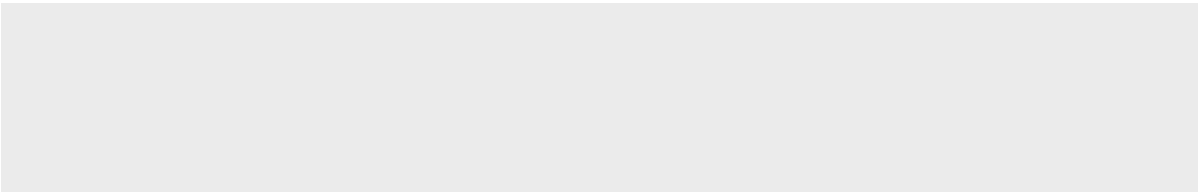


1		Robust design bent axis motor with high power density		Suitable for a wide range of applications
2		Drive shaft assembly		High speed capability
3		Pistons		High flexibility
4		Rotating group with variable displacement		High starting torque
5		Port plate		High functional reliability - even under adverse operating conditions
6		Modular concept of various displacement and/or pressure controls (e.g. pressure side selection)		Precise control & low hysteresis
7		Optimized flow concept		Prevention of housing pressure peaks and vibrations
8		Control piston		Sensing of speed and direction of rotation
9		Asymmetrically damped changeover switch		Easy handling
10		Sensor		Easy replacement without the need of application
11		Thread for mounting of lifting devices		
12		Standardized interfaces		

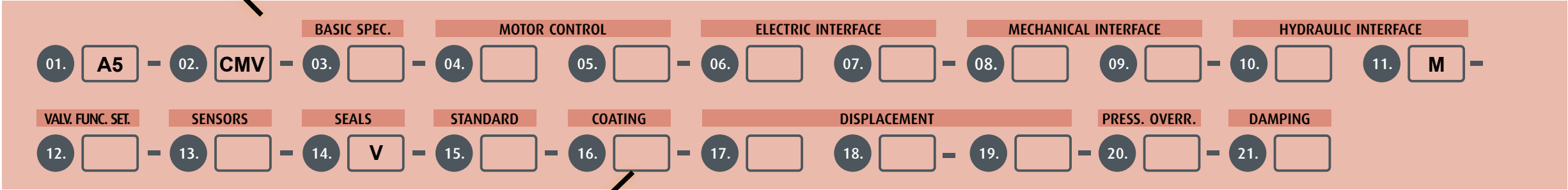


Configuration | Modelcode & Availability | Type

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Modelcode for orders/inquiries



Modelcode items describing a configuration element each

Signalization	●	○	Signalization	■
Availability from	Now	Upon request	Preference	Preferred option

Configuration | Modelcode & Availability | Type

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1.

MODELCODE
ITEM

CMV

Type

Item	Feature												
1.	Type												
	Characteristic												
	Type												
CMV	CMV			Bent Axis Design Variable Displacement Motor									

Signalization

●

○

Availability from

Now

Upon request

Signalization


Preference

Preferred option

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A5
Model Code Release

[illegible]

Signalization	●	○	Signalization	
Availability from	Now	Upon request	Preference	Preferred option



Configuration | Modelcode & Availability | Nominal Size

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3.

MODELCODE
ITEM

Nominal Size

Item	Feature									
3.	Nominal size									
	Characteristic				Nominal size					Spec.
	Nominal size	Maximum displacement range [cc/rev]			060	085	115	140	170	215
060	60	62			○					
085	85	87.7			●					
115	115	115.3				●				
140	140	144.1					●			
170	170	170						●		
215	215	217.9							●	

Signalization

●

○

Availability from

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



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




Item	Feature										
4.	Displacement controller										
	Characteristic					Nominal size					Spec.
	Control	Default position	Characteristic (schematically shown)	Max. controlled		060	085	115	140	170	215
00		Vgmax		Vgmax	No displacement controller	○	●	●	●	●	●
		Vgmin		Vgmin							
E2		Vgmax		Vgmax	2-position (negative control, minimum Vgmin=0)	○	○	○	○	○	○
		Vgmin		Vgmin							
E4		Vgmax		Vgmax	Proportional (ΔI = 35 to 80 % of IG resolution, negative control, minimum Vgmin = 0)	○	●	●	●	●	●
		Vgmin		Vgmin							
E5		Vgmax		Vgmax	2-position (positive control, minimum Vgmin = 0)	○	○	○	○	○	○
		Vgmin		Vgmin							
E6		Vgmax		Vgmax	Proportional (ΔI = 35 to 80 % of IG resolution, positive control, minimum Vgmin = 0)	○	●	●	●	●	●
		Vgmin		Vgmin							

4.

MODELCODE ITEM



Displacement Controller

Item	Feature										
	Characteristic					Nominal size					Spec.
	Control	Default position	Characteristic (schematically shown)	Max. controlled		060	085	115	140	170	215
H2		Vgmax		Vgmax	2-position (reference pressure = case pressure, negative control, minimum Vgmin = 0)	○	○	○	○	○	○
		Vgmin		Vgmin							
H4		Vgmax		Vgmax	Proportional (ΔpSt = 10 bar resolution, reference pressure = case pressure, negative control, minimum Vgmin = 0)	○	●	●	●	●	●
		Vgmin		Vgmin							
H5		Vgmax		Vgmax	2-position (reference pressure = case pressure, positive control, minimum Vgmin = 0)	○	○	○	○	○	○
		Vgmin		Vgmin							
H6		Vgmax		Vgmax	Proportional (ΔpSt = 10 bar resolution, reference pressure = case pressure, positive control, minimum Vgmin = 0)	○	●	●	●	●	●
		Vgmin		Vgmin							
											

Signalization

●


○

Availability from

Now

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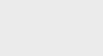



Work Ports

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Item	Feature																				
5.	Pressure controller and/or override signal																				
	Characteristic											Nominal size					Spec.				
	Default position	Characteristic (schematically shown)	Max. controlled												060	085	115	140	170	215	
00				No pressure controller, no override signal																	
				Compatibility with displacement controller											○	●	●	●	●	●	
				00	E2	E4	E5	E6	HC	H2	H4	H5	H6								
						✓		✓			✓		✓								
P0	Vgmax		Vgmax	Pressure controller (15 bar pressure gain), shuttle valve = highest work port pressure																	
				Compatibility with displacement controller											○	●	●	●	●	●	
				00	E2	E4	E5	E6	HC	H2	H4	H5	H6								
	Vgmin		Vgmin			✓					✓										
P1	Vgmax		Vgmax	Pressure controller (100 bar pressure gain), shuttle valve = highest work port pressure																	
				Compatibility with displacement controller											○	●	●	●	●	●	
				00	E2	E4	E5	E6	HC	H2	H4	H5	H6								
	Vgmin		Vgmin	✓																	
P3	Vgmax		Vgmax	Pressure controller (15 bar pressure gain), shuttle valve = highest work port pressure, remote signal for reduction of pressure controller setting																	
				Compatibility with displacement controller											○	●	●	●	●	●	
				00	E2	E4	E5	E6	HC	H2	H4	H5	H6								
	Vgmin		Vgmin	✓																	


5.



MODELCODE ITEM

Pressure Controller and/or Override Signal

Item	Feature																
	Characteristic											Nominal size					Spec.
	Default position	Characteristic (schematically shown)	Max. controlled									060	085	115	140	170	215
P4	Vgmax		Vgmax	Pressure controller (15 bar pressure gain), electric controlled pressure side selection													
	Vgmin		Vgmin	Compatibility with displacement controller								○	●	●	●	●	●
			00	E2	E4	E5	E6	HC	H2	H4	H5	H6					
P6	Vgmax		Vgmax	Pressure controller (15 bar pressure gain), electric controlled pressure side selection, electric VGmax switch													
	Vgmin		Vgmin	Compatibility with displacement controller								○	○	○	○	○	○
			00	E2	E4	E5	E6	HC	H2	H4	H5	H6					
P8	Vgmax		Vgmax	Pressure controller (100 bar pressure gain), shuttle valve = highest work port pressure, remote signal for reduction of pressure controller setting													
	Vgmin		Vgmin	Compatibility with displacement controller								○	●	●	●	●	●
			00	E2	E4	E5	E6	HC	H2	H4	H5	H6					

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Item	Feature										
6.	Electric connectors for sensors & solenoids										
	Characteristic				Nominal size					Spec.	
					060	085	115	140	170	215	
0				Not applicable	○	●	●	●	●	●	
D				Deutsch	○	●	●	●	●	●	
A				AMP Junior Timer	○	●	●	●	●	●	

6.

MODELCODE

ITEM




Electric Connectors for Sensors & Solenoids

Signalization	●	○
Availability from	Now	Upon request


Signalization	■
Preference	Preferred option

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Voltage for Solenoids

[illegible]

Signalization	●	○
Availability from	Now	Upon request

Signalization	
Preference	Preferred option




Configuration | Modelcode & Availability | Mounting Flange

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8.

MODELCODE
ITEM



Mounting Flange

Item	Feature									
8.	Mounting flange									
	Characteristic				Nominal size					Spec.
	Standard	Size [mm]- Number of bolts			060	085	115	140	170	215
C2	ISO 3019-1 / SAE J744	127-2		SAE C		●				
C4		127-4		SAE C	○					
D4		152-4		SAE D		●	●	●		
E4		165-4		SAE E					●	
M4	ISO 3019-2 metric	125-4			○					
N4		140-4				●				
P4		160-4					●			
R4		180-4					●	●		

Item	Feature									
	Characteristic				Nominal size					Spec.
	Standard	Size [mm]- Number of bolts			060	085	115	140	170	215
S4	ISO 3019-2 metric	200-4								●
P2	Plug-in, similar to ISO 3019-2	160-2		Plug-in	○					
Y2		190-2		Plug-in		●				
S2		200-2		Plug-in			●	●	●	
Z4		260-4		Plug-in						●

Signalization

●

○

Availability from

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Item	Feature											
9.	Drive shaft / companion flange											
	Characteristic					Nominal size						Spec.
	Standard	Number of teeth	Spline pitch/ module	Identification code		060	085	115	140	170	215	
S7	ISO 3019-1/ SAE J744	14	12/24	32-4		O						
S8		21	16/32	35-4			●					
S9		17	12/24	38-4			●					
V6		23	16/32	38-4			●	●				
V7		27	16/32	44-4					●	●		
T1		13	8/16	44-4				●	●	●		
T2		15	8/16	50-4							●	●
D3	DIN5480	14	2	W30		O						
D4		16	2	W35		○	●					


9.

MODELCODE
ITEM



Drive Shaft / Compagnion Flange

Item	Feature										
	Characteristic					Nominal size					Spec.
	Standard	Number of teeth	Spline pitch/ module	Identification code		060	085	115	140	170	215
D5	DIN5480	18	2	W40			●	●			
D6		21	2	W45				●	●	●	
D7		24	2	W50						●	●
F4	SAE J1946				Companion flange Type A - 120x8xM10	○	○	○	○	○	○

Signalization	●	O	Signalization	
Availability from	Now	Upon request	Preference	Preferred option

Configuration | Modelcode & Availability | Port Plate Housing

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10.

MODELCODE
ITEM



Port Plate Housing

Item	Feature													
10.	Port Plate Housing													
	Characteristic							Nominal size					Spec.	
	Work port orientation	Open & closed circuit operation	Closed circuit operation	Open circuit operation				060	085	115	140	170	215	
		Without additional functions	Flushing valve	Counter balance valve	Cross over relief valve	Anti-cavitation valve	Interface for external counter balance valve							
A0	Axial twin ports (facing to rear)	✓						○	●	●	●	●	●	
A1			✓					○	●	●	●	●	●	
A3						✓					○	○		
A4							✓				●	●		
A5						✓		✓			○	○		
S0	Side ports (facing to the outside, left and right)	✓						○	●	●	●	●	●	
S1			✓						○	●	●	●	●	●

Item	Feature													
10.	Port Plate Housing													
	Characteristic							Nominal size				Spec.		
	Work port orientation	Open & closed circuit operation	Closed circuit operation	Open circuit operation				060	085	115	140	170	215	
		Without additional functions	Flushing valve	Counter balance valve	Cross over relief valve	Anti-cavitation valve	Interface for external counter balance valve							
R2		Radial twin ports		✓							○	○		

Signalization

●


○

Availability from

Now

Upon request

Signalization



Preference


Preferred option

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M
Auxiliary Ports

[illegible]

Signalization	●	○
Availability from	Now	Upon request

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Item	Feature										
12.	Valve function settings (according to your choice at item 10. Port plate housing)										
	Characteristic					Nominal size					Spec.
						060	085	115	140	170	215
	Operation	Port plate function	Pressure [bar]	Flow [l/min]							
0	Open & closed circuit	No additional function	-	-		○	●	●	●	●	
P		Cross over relief valve	400					○	○		
Q			380					○	○		
R			350					○	○		
S			300					○	○		
T			250					○	○		


12.

MODELCODE ITEM



Valve function settings

Item	Feature										
12.	Valve function settings (according to your choice at item 10. Port plate housing)										
	Characteristic					Nominal size					Spec.
						060	085	115	140	170	215
	Operation	Function	Pressure [bar]	Flow [l/min]							
B	Closed circuit	Flushing		6		○	●	●	●	●	
D				10		○	●	●	●	●	
F				15		○	●	●	●	●	
H				20		○	●	●	●	●	
J				25							

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13.

MODELCODE ITEM



Speed Sensor


Item	Feature									
13.	Speed sensor									
	Characteristic				Nominal size					Spec.
	Speed sensor	Prepared for speed sensor	Without Speed sensor		060	085	115	140	170	215
S	✓			Speed sensor, Function: speed and direction of rotation Connector type: is to be defined at modelcode Item 6 (default: Deutsch)	○	●	●	●	●	●
V		✓		Option allows the subsequent installation of speed sensors (Housing already has a mounting for the sensor, the drive shaft is equipped with an incremental ring)	○	●	●	●	●	●
0			✓	Option does not allow the subsequent installation of speed sensors (Housing has no mounting for the sensor, the drive shaft is not equipped with an incremental ring)	○	○	○	○	○	○

Signalization	●	○	Signalization	■
Availability from	Now	Upon request	Preference	Preferred option

In the following you will find the Modelcode structure for inquiries in context of the [Configuration]. All features of the CMV are listed including brief specification. Please consider the availability and compatibility of the individual items regarding the relevant nominal size. In context of an order or inquiry consider these items as a coherent model code. It serves for further processing. For a more in-depth look at the technical specifications, please refer to the relevant section under [Technical Specification].

V
Seal Material

[illegible]

Signalization	●	○	Signalization	
Availability from	Now	Upon request	Preference	Preferred option



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Configuration | Modelcode & Availability | Variant Configuration

In the following you will find the Modelcode structure for inquiries in context of the [Configuration]. All features of the CMV are listed including brief specification. Please consider the availability and compatibility of the individual items regarding the relevant nominal size. In context of an order or inquiry consider these items as a coherent model code. It serves for further processing. For a more in-depth look at the technical specifications, please refer to the relevant section under [Technical Specification].

15.


MODELCODE ITEM



Variant Configuration

(may require further information)

Item	Feature										
15.	Variant configuration (may require further information)										
	Characteristic										
0	Standard execution			(Your desired configuration corresponds to the availabilities and combinations listed in this document.)	○	●	●	●	●		
P	Special version			(Your desired configuration does not correspond to the availabilities shown in this document and/or does not correspond to the possible combinations shown.) Please explain your desired configuration in more detail under “Your choice & inquiry!”	○	○	○	○	○	○	

Signalization	●	○	Signalization	
Availability from	Now	Upon request	Preference	Preferred option

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Configuration | Modelcode & Availability | Corrosion Protection or Paint

In the following you will find the Modelcode structure for inquiries in context of the [Configuration]. All features of the CMV are listed including brief specification. Please consider the availability and compatibility of the individual items regarding the relevant nominal size. In context of an order or inquiry consider these items as a coherent model code. It serves for further processing. For a more in-depth look at the technical specifications, please refer to the relevant section under [Technical Specification].

16.

MODELCODE ITEM



Corrosion Protection or Paint

Item	Feature									
16.	Corrosion protection or paint									
	Characteristic				Nominal size					Spec.
	Corrosion protection	Primer	Paint		060	085	115	140	170	215
00	Anticorit RPO-3002			Corrosion protection, no primer or paint, 6 month active	○	●	●	●	●	
P1		oxide red, RAL 3009		Primer	○	●	●	●	●	
P6		traffic grey B RAL 7043		Primer (default primer)	○	●	●	●	●	
V3		grey, RAL 7043	jet black, RAL 9005	2-coat paint	○	●	●	●	●	
V7		grey, RAL 7043	slate grey, RAL 7015	2-coat paint	○	●	●	●	●	

Signalization	●	○	Signalization	■
Availability from	Now	Upon request	Preference	Preferred option

Configuration | Modelcode & Availability | **Vg_{max}**

In the following you will find the Modelcode structure for inquiries in context of the [Configuration]. All features of the CMV are listed including brief specification. Please consider the availability and compatibility of the individual items regarding the relevant nominal size. In context of an order or inquiry consider these items as a coherent model code. It serves for further processing. For a more in-depth look at the technical specifications, please refer to the relevant section under [Technical Specification].

17.

MODELCODE
ITEM



Vg_{max}




Item	Feature										
17.	Vg _{max}										
	Characteristic					Nominal size					Spec.
	Fixed setting	Individual setting	Comes with adjustment screw	Subsequent changes possible	Set value [cc/rev]	060	085	115	140	170	215
MAX	✓				62	○					
					87.7	●					
					115.3		●				
					144.1			●			
					170				●		
					217.9					●	
[VALUE]		✓	✓	✓	Individual value (numeric, 3 digits, only integer values) Minimum 70% of Vg _{max} expressed in cc/rev)	○	●	●	●	●	●

Signalization	●	○	Signalization	■
Availability from	Now	Upon request	Preference	Preferred option

In the following you will find the Modelcode structure for inquiries in context of the [Configuration]. All features of the CMV are listed including brief specification. Please consider the availability and compatibility of the individual items regarding the relevant nominal size. In context of an order or inquiry consider these items as a coherent model code. It serves for further processing. For a more in-depth look at the technical specifications, please refer to the relevant section under [Technical Specification].

MODELCODE ITEM	Vgmin
18.	

[illegible]

Signalization			Signalization	
Availability from	Now	Upon request	Preference	Preferred option

- 1 at values $< 25\%$ of V_{gmax} , motor should not be operated in motor mode - always observe max speed limitations

In the following you will find the Modelcode structure for inquiries in context of the [Configuration]. All features of the CMV are listed including brief specification. Please consider the availability and compatibility of the individual items regarding the relevant nominal size. In context of an order or inquiry consider these items as a coherent model code. It serves for further processing. For a more in-depth look at the technical specifications, please refer to the relevant section under [Technical Specification].

19.		Begin of Displacement Control (Hydraulic Controllers Only; as per 4.)
-----	--	--

[illegible]

Signalization	<input checked="" type="radio"/>	<input type="radio"/>	Signalization	<input type="checkbox"/>
Availability from	Now	Upon request	Preference	Preferred option

In the following you will find the Modelcode structure for inquiries in context of the [Configuration]. All features of the CMV are listed including brief specification. Please consider the availability and compatibility of the individual items regarding the relevant nominal size. In context of an order or inquiry consider these items as a coherent model code. It serves for further processing. For a more in-depth look at the technical specifications, please refer to the relevant section under [Technical Specification].


MODEL CODE
ITEM



Regulation Begin of Pressure Override (as per 5.)

[illegible]

Signalization	●	○
Availability from	Now	Upon request

Signalization	
Preference	Preferred option



Configuration | Modelcode & Availability | Control Damping

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In the following you will find the Modelcode structure for inquiries in context of the [Configuration]. All features of the CMV are listed including brief specification. Please consider the availability and compatibility of the individual items regarding the relevant nominal size. In context of an order or inquiry consider these items as a coherent model code. It serves for further processing. For a more in-depth look at the technical specifications, please refer to the relevant section under [Technical Specification].

Item	Feature									
21.	Control damping									
	Characteristic					Nominal size				
	Option depends on controller configuration		Undamped swiveling	Damped swiveling		060	085	115	140	170
						215				
	Displacement controller	Pressure controller		from Vgmin to Vgmax	from Vgmax to Vgmin					
1	E4	00	✓			○	●	●	●	●
	E6					○	●	●	●	●
	H4					○	●	●	●	●
	H6					○	●	●	●	●
	00	P0		✓		○	●	●	●	●
		P1		✓		○	●	●	●	●
		P3		✓		○	●	●	●	●
		P8		✓		○	●	●	●	●
	E4	P0		✓	✓	○	●	●	●	●
	H4					○	●	●	●	●
	E4	P4		✓	✓	○	●	●	●	●
	H4					○	●	●	●	●
	H4	P6		✓	✓	○	●	●	●	●

21.

MODELCODE ITEM



Control Damping

Item	Feature									
	Characteristic					Nominal size				
	Option depends on controller configuration		Undamped swiveling	Damped swiveling		060	085	115	140	170
						215				
	Displacement controller	Pressure controller		from Vgmin to Vgmax	from Vgmax to Vgmin					
2	E4	00	✓	✓		○	●	●	●	●
	E6					○	●	●	●	●
	H4					○	●	●	●	●
	H6					○	●	●	●	●

Signalization

●


○

Availability from

Now

Upon request

Signalization



Preference

Preferred option

Technical Specification | General Technical Data

In the following you will find the general technical data of the CMV. The values listed refer to the respective nominal size and take into account the general use. If these data do not correspond to the requirements in the context of your application, please contact us. Other values are available upon individual consideration of your application.

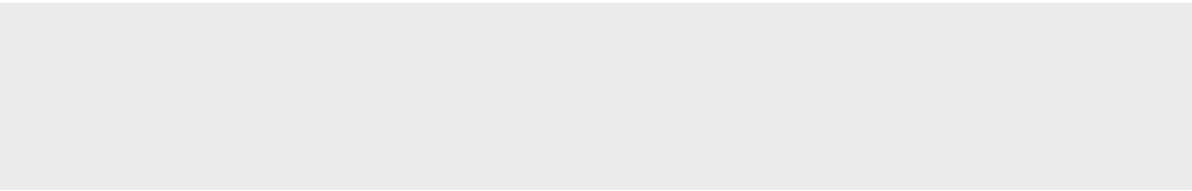
General technical data			
Nominal size			
Displacement	Vg _{max}		cc/rev
	Vg _x	at total pressure (A+B) = 40 bar	
		at total pressure (A+B) = 120 bar	
		at total pressure (A+B) = 140 bar	
	Vg _{min}		
Speed	Nominal speed	at Vg _{max}	rpm
		at Vg ≤ Vg _x	
		at Vg _{min}	
Inlet flow	at Vg _{max}		l/min
Pressure ¹	Nominal pressure		bar
	Maximum pressure ²		bar
	Maximum housing pressure		bar
Torque	Output torque at Δp= 430 bar		Nm
Temperature	Perm. housing temperature		°C
Weight (without oil) approx.			kg

60	85	115	140	170	215
60	85	115	140	170	215
62	87.7	115.3	144.1	170	217.9
upon request	29.8	39.2	49	64.6	82.8
-	-	-	-	105.4	135.1
upon request	52.6	69.2	86.5	-	-
0	0	0	0	0	0
4450	3900	3550	3250	3100	2900
7200	6800	6150	5600	4900	4600
upon request					
upon request	342.0	409.3	468.3	527.0	631.9
450					
500					
2.5					
411	582	787	958	1163	1471
90					
27.7	36.3	44.8	59.2	62.1	76.4

¹ reference = ambient pressure ; ² highest transient pressure, that can temporarily occur

Technical Specification | Operating Parameters | Pressure

In the following you will find the operating parameters which should be considered to ensure safe operation under all prevailing conditions and a long service life of the CMV.



Pressure at work port A or B			
Nominal pressure p_{nom}		bar	450
Maximal pressure p_{max}			500
Minimum pressure pump operating mode inlet			see the diagram
Maximum summation pressure p_{su} (pressure A + pressure B)			upon request
Rate of pressure change R_{Amax}	Without pressure relief valve	bar/s	16000
	With pressure relief valve		9000

Definition
The nominal pressure corresponding to the maximum design pressure
Highest transient pressure, that can temporarily occur; reference = ambient pressure
In order to prevent damage to the motor during pump operation (changing the the high-pressure side while the direction of rotation remains the same, e.g. during braking), a minimum pressure must be ensured at the work ports (inlet).
The summation pressure is the sum of the pressures at both work ports (A and B); reference = ambient pressure
Maximum permissible rate of pressure build up and reduction during a pressure change over the entire pressure range (Definition see diagram)

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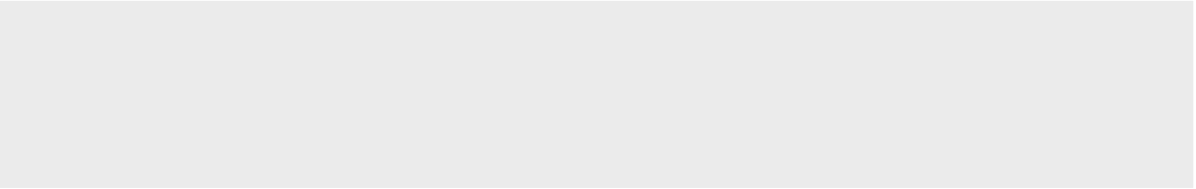
Pressure Fluid

Viscosity/Temperature



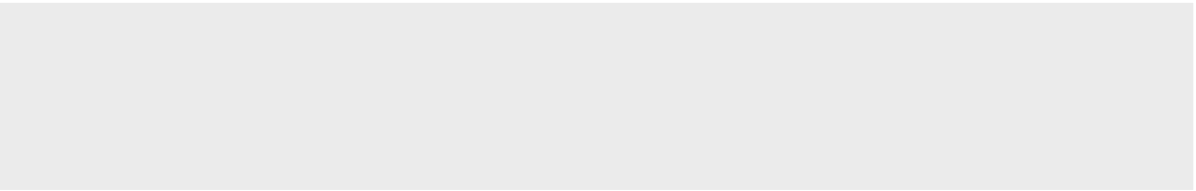
Technical Specification | Operating Parameters | Pressure

In the following you will find the operating parameters which should be considered to ensure safe operation under all prevailing conditions and a long service life of the CMV.





In the following you will find the operating parameters which should be considered to ensure safe operation under all prevailing conditions and a long service life of the CMV.



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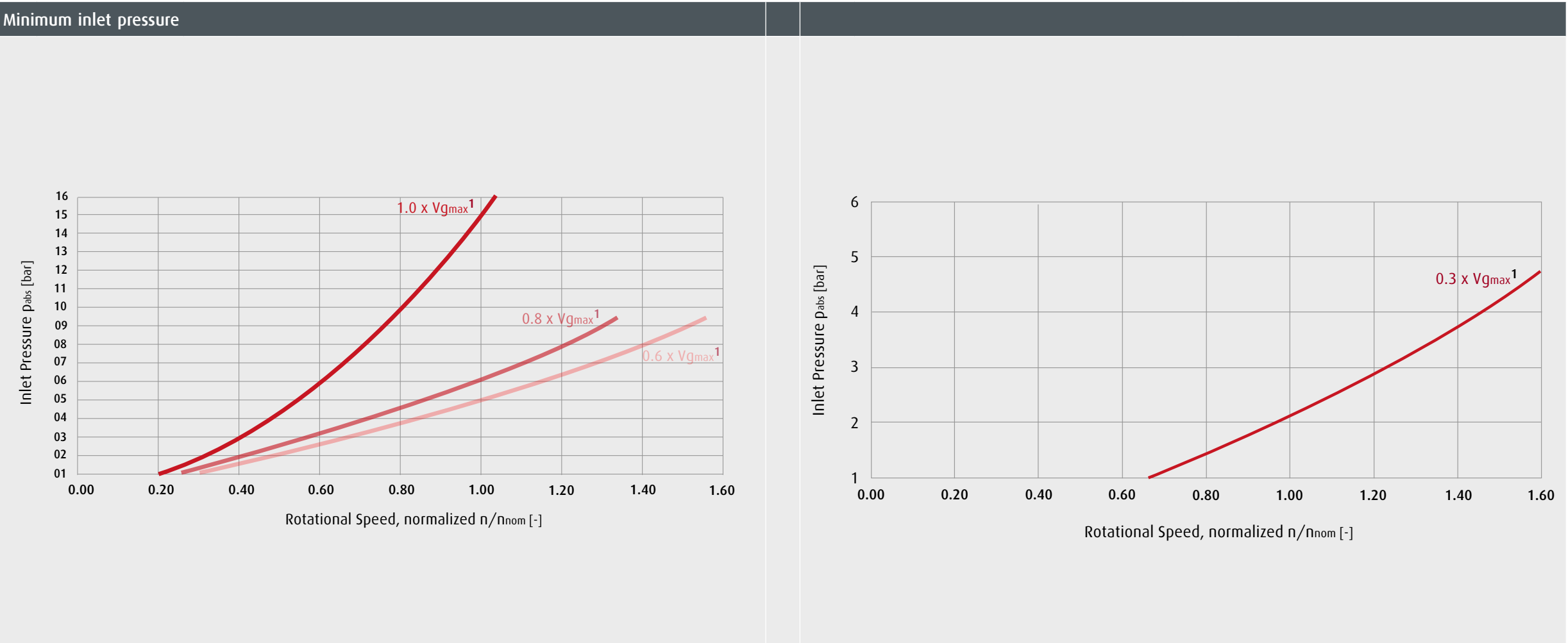
Operating Conditions

Filtration

Pressure Fluid

Viscosity/Temperature





Data shown related to nominal size	1	CMV 85, CMV 115, CMV 140, CMV 170, CMV 215 (data related to other sizes upon request)					

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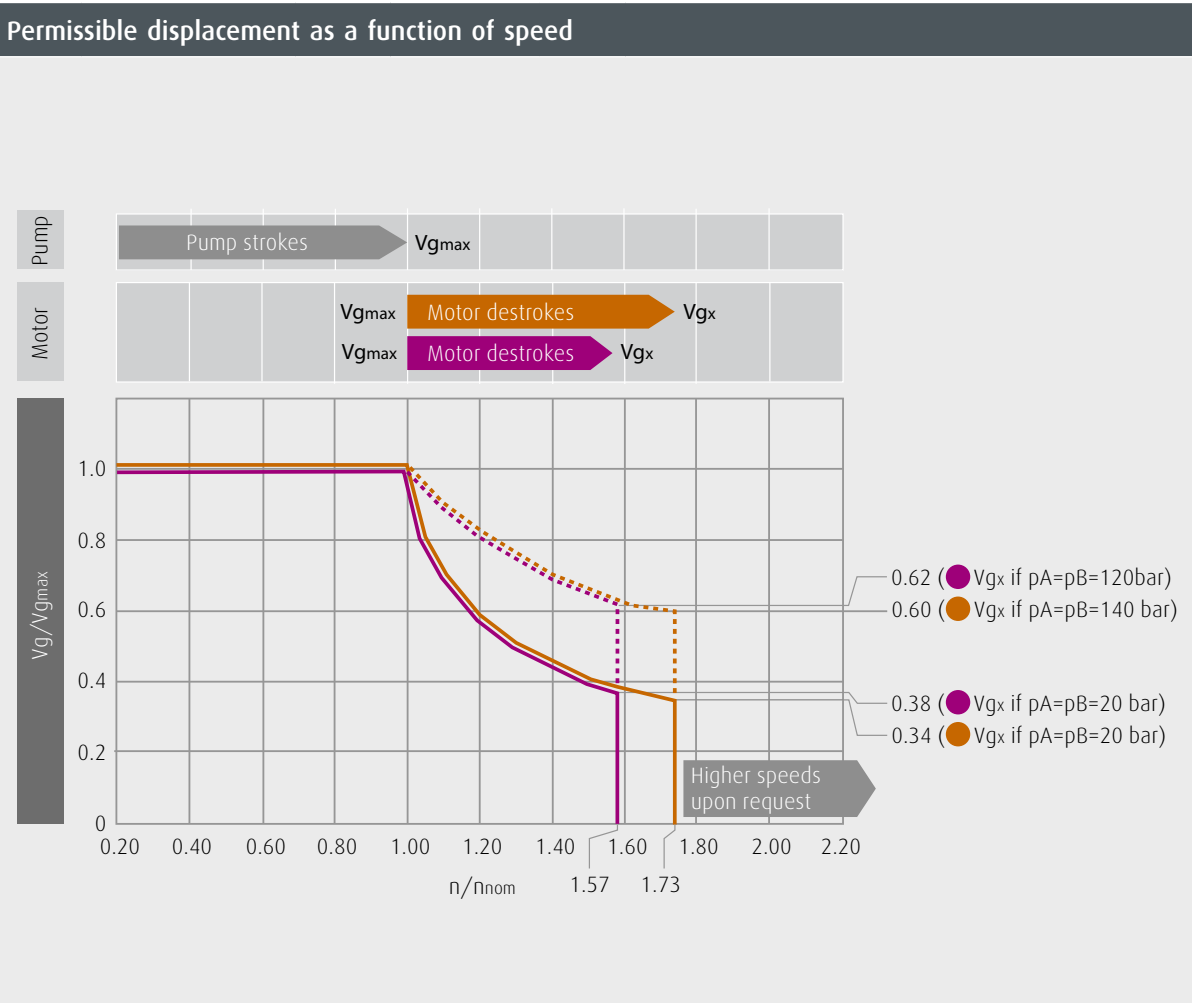
Filtration

Pressure Fluid

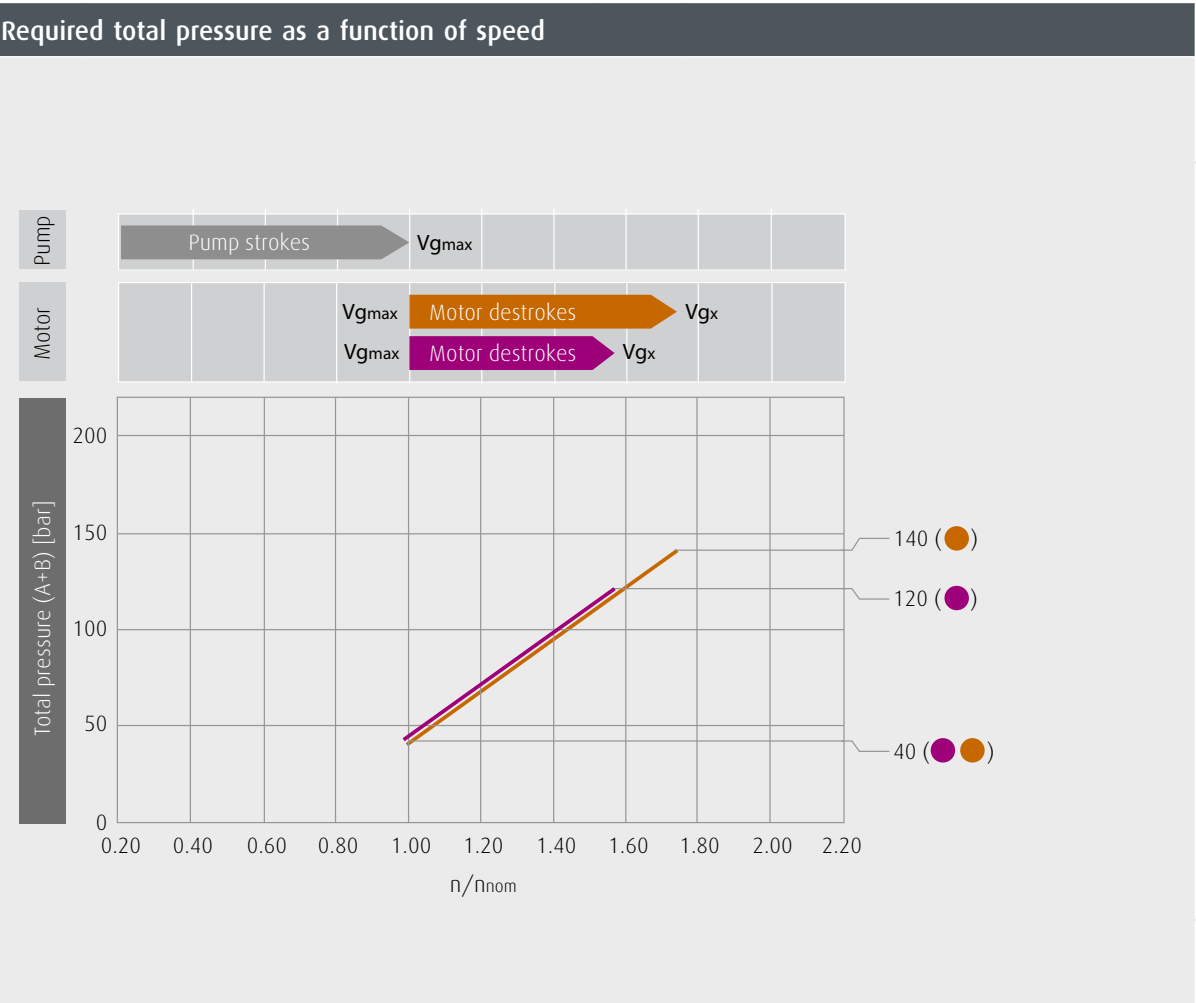
Viscosity/Temperature



In the following you will find the operating parameters which should be considered to ensure safe operation under all prevailing conditions and a long service life of the CMV.

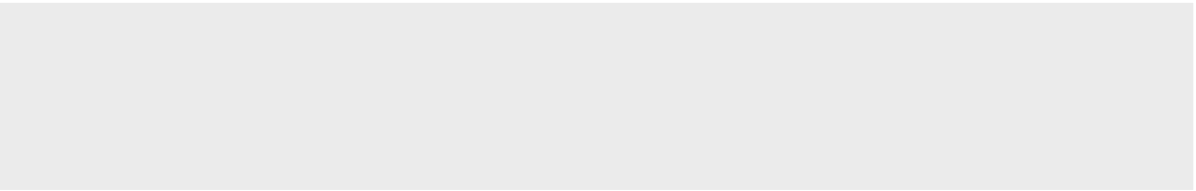


Data shown related to nominal size		CMV 85, CMV 115, CMV 140
		CMV 170, CMV 215



Technical Specification | Operating Parameters | Operating Conditions

In the following you will find the operating parameters which should be considered to ensure safe operation under all prevailing conditions and a long service life of the CMV.



General technical data			
Nominal size			
Speed	Speed		
Pressure	Operating pressure		bar
	Max. pressure		
Power			
Fluid	Viscosity		Centistokes (cSt)
	Purity of fluid		

Beneficial conditions for long service life	Adverse factors for long service life
All sizes	All sizes
Lower continuous maximum speed	Between nominal speed and maximum speed
<300 on average	>300 on average
Only at reduced displacement	
Continuous power or lower	Continuous operation close to maximum power
15 ... 30	
In accordance with ISO 4406	In accordance with ISO 4406
18/16/13 or better	Worse than 18/16/13

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Technical Specification | Operating Parameters | Filtration

In the following you will find the operating parameters which should be considered to ensure safe operation under all prevailing conditions and a long service life of the CMV.

Filtration
For reliable proper function and long service life
Minimum requirements
Commissioning
Filling and operation of hydraulic systems
Comparable international standards

--

18/16/13		
20/18/15		
The minimum purity requirement for the hydraulic oil is based on the most sensitive system component. For commissioning we recommend a filtration in order to achieve the required purity.		
The required purity of the hydraulic oil must be ensured during filling or topping up. When drums, canisters or large-capacity tanks are used the oil generally has to be filtered. We recommend the implementation of suitable measures (e.g. filters) to ensure that the required minimum purity of the oil is also achieved during operation.		
Purity class according to ISO 4406		Purity class according to SAE AS 4059 E
18/16/13	corresponds to	8A/7B/7C
20/18/15		9A/8B/8C



Technical Specification | Operating Parameters | Pressure Fluid

In the following you will find the operating parameters which should be considered to ensure safe operation under all prevailing conditions and a long service life of the CMV.

Pressure fluid		
Pressure fluid	Permitted pressure fluids	

Mineral oil HLP according to DIN 51 524-2
Biodegradable fluids in accordance with ISO 15 380 on request
Other pressure fluids on request



Technical Specification | Operating Parameters | Temperature/Viscosity

In the following you will find the operating parameters which should be considered to ensure safe operation under all prevailing conditions and a long service life of the CMV.

In order to be able to select the right hydraulic fluid it is necessary to know the working temperature in the hydraulic circuit. The hydraulic fluid should be selected that its optimum viscosity is within the working temperature range (see tables). The temperature should not exceed 90 °C in any part of the system. Due to pressure and speed influences the leakage fluid temperature is always higher than the circuit temperature. Please contact Linde Hydraulics if the stated conditions cannot be met in special circumstances.

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Pressure Fluid

Viscosity/Temperature



Viscosity/Temperature			
Temperature	Perm. pressure fluid temperature range		[°C]
Viscosity	Recommended viscosity ranges	Working viscosity range	[mm²/s] = [cSt]
		Optimum working viscosity	[mm²/s] = [cSt]
		Max. viscosity (short time during cold start)	[mm²/s] = [cSt]
	Optimum viscosity at temperature	Working temperature	[°C]
		approx. 30 to 40	
		approx. 40 to 60	
		approx. 60 to 80	

-20 à +105 °C
10 to 80 cSt
15 to 30 cSt
1000 cSt
Viscosity class [mm²/s] = [cSt] at 40 °C
22 cSt
32 cSt
46 or 68 cSt

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Electrical Controller

00

E2

E4

E5

E6

Hydraulic Controller

H2

H4

H5

H6

Pressure Control/Override

00

P0


P1

P3

P4

P6

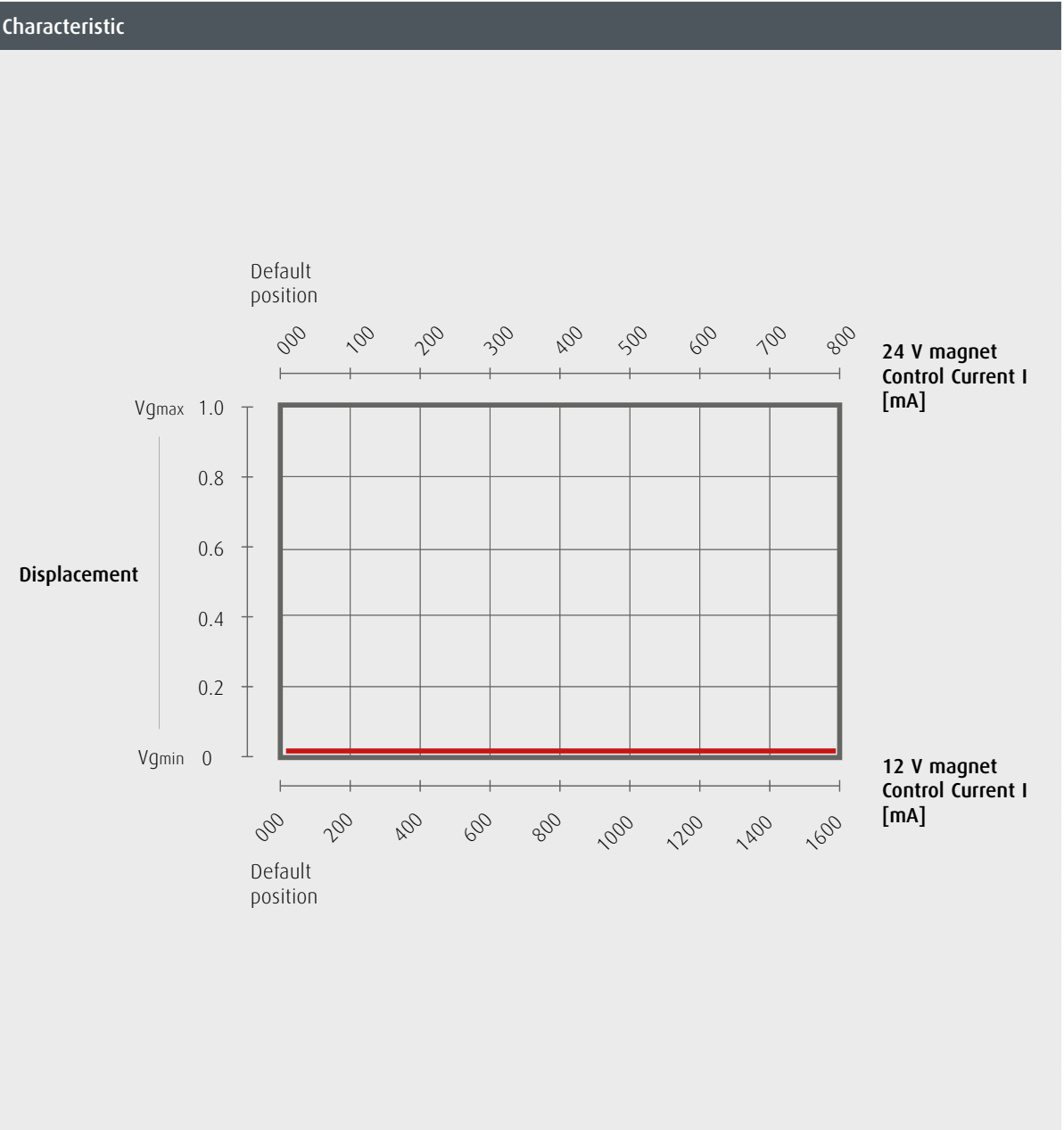
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In the following you will find the technical specifications of the displacement and pressure controllers for the CMV. These are subdivided into electric and hydraulic displacement controllers as well as pressure controllers or override signals. First get an overview of the basic specs, options and characteristics. Note the short designations such as „E2“ or „P0“. In the section Find Model Code & Availability, you can then check the availability of the corresponding controllers and compile your desired configuration using the short designations as a segment of the model code.

Basic Specification										
Magnet					12 V			24 V		
Voltage				V	-			-		
Begin of Control/ Default position	Vgmin/ Minimum Torque/ Maximum Speed	Current		mA	-			-		
End of Control	Vgmin/ Minimum Torque/ Maximum Speed									
Limit		Limit current		A	-			-		
Solenoid		Electrical resistance		Ω	-			-		
Dither		Frequency		Hz	-			-		
		Minimum amplitude		mA	-			-		
Duty Cycle				%	-			-		
Control press. supply	Minimum pressure at work port A/B			bar	-					
Protection class					No connector					
Options										
Damping	Nominal size				60	85	115	140	170	215
	Swiveling speed at 200 bar	Undamped	1/4 Vgmax -> Vgmax	s	-	-	-	-	-	-
			Vgmax -> 1/4 Vgmax		-	-	-	-	-	-
		Damped	1/4 Vgmax -> Vgmax		-	-	-	-	-	-
			Vgmax -> 1/4 Vgmax		-	-	-	-	-	-

The displacement controller with the abbreviation „00“ is not an individual function. In this case, the component for displacement and pressure control does not support displacement control. The motor is in default position Vgmin. When choosing this option, a pressure controller must be considered to control the motor.



CMV	Basic motor (without Controls/Functions/Options)	T1	Drain/vent ports, ISO6149	00 P0	Displ. Contrl. 00 + Press. Contrl. P0		
		T2		00 P3	Displ. Contrl. 00 + Press. Contrl. P3		
A	High pressure work ports, ISO 6162-2	U	Drain/vent port, ISO6149	G	External control pressure supply		
B							



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Electrical Controller

00

E2

E4

E5

E6

Hydraulic Controller

H2

H4

H5

H6

Pressure Control/Override

00

P0


P1

P3

P4

P6

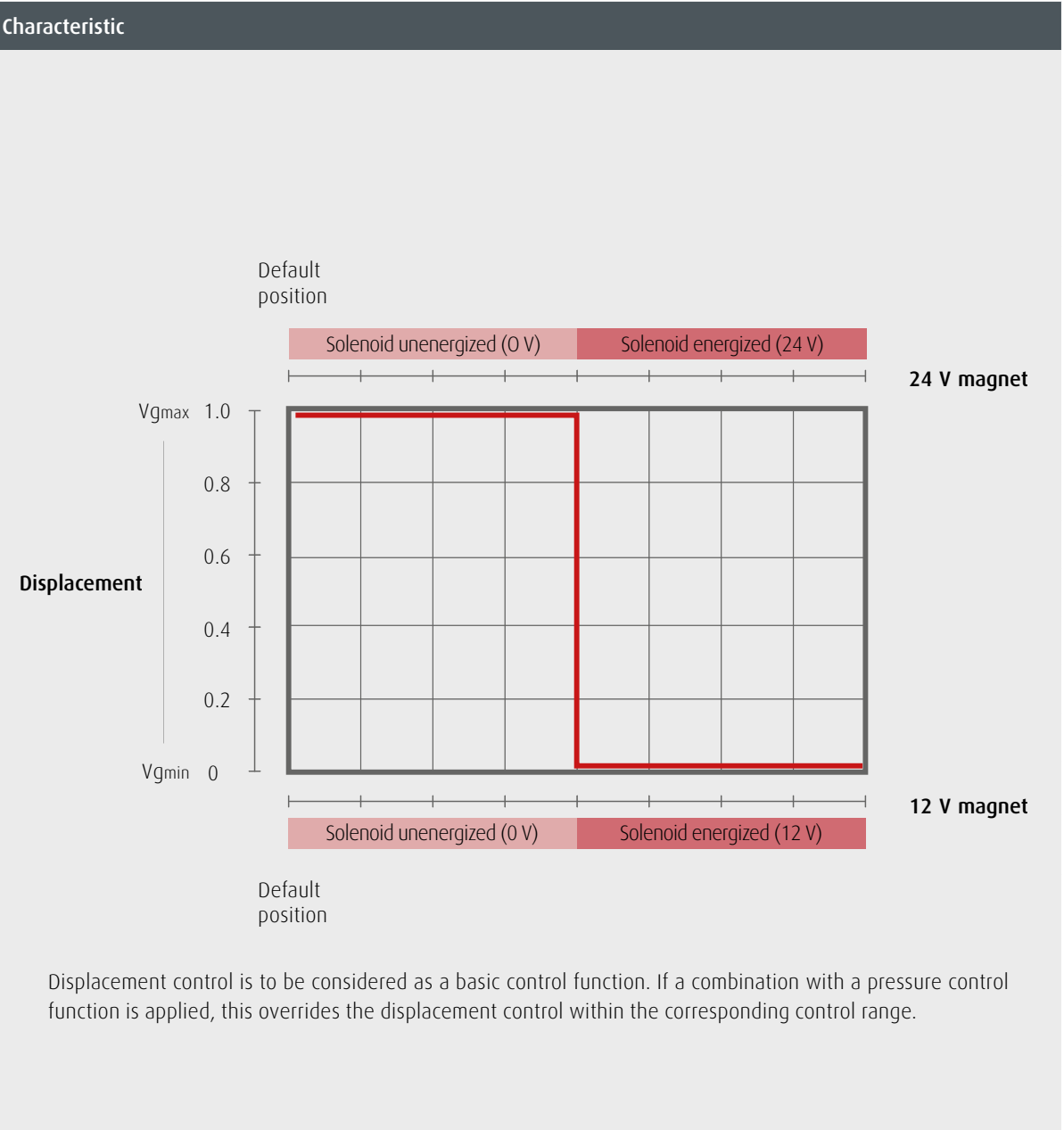
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In the following you will find the technical specifications of the displacement and pressure controllers for the CMV. These are subdivided into electric and hydraulic displacement controllers as well as pressure controllers or override signals. First get an overview of the basic specs, options and characteristics. Note the short designations such as „E2“ or „P0“. In the section Find Model Code & Availability, you can then check the availability of the corresponding controllers and compile your desired configuration using the short designations as a segment of the model code.

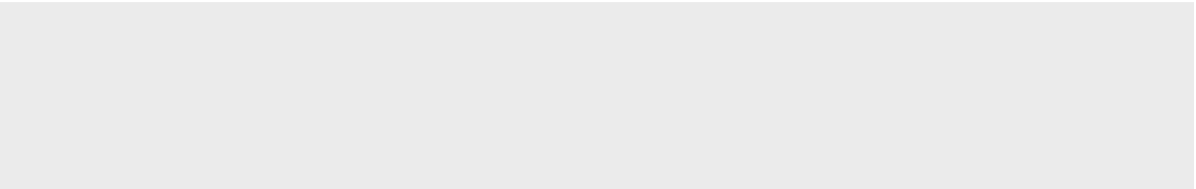
Basic Specification										
Magnet					12 V		24 V			
Voltage				V	12 (-10%/+ 20 %)		24 (-10%/+ 20%)			
Begin of Control/ Default position	Vg _{max} / Maximum Torque/ Minimum Speed	Status solenoid			Solenoid unenergized					
End of Control	Vg _{min} / Minimum Torque/ Maximum Speed									
Solenoid		Electrical resistance		Ω	6.3		24.6			
Duty Cycle				%	100		100			
Control press. supply	Minimum pressure at work port A/B			bar	30					
Protection class					See connector					
Options										
Damping	Nominal size				60	85	115	140	170	215
	Approx. swiveling speed at 200 bar	Undamped	1/4 Vg _{max} -> Vg _{max}	S	upon request	upon request	upon request	upon request	upon request	upon request
			Vg _{max} -> 1/4 Vg _{max}		upon request	upon request	upon request	upon request	upon request	upon request
		Damped	1/4 Vg _{max} -> Vg _{max}		upon request	upon request	upon request	upon request	upon request	upon request
			Vg _{max} -> 1/4 Vg _{max}		upon request	upon request	upon request	upon request	upon request	upon request

The displacement controller E2 is an electric controller that enables 2-point negative control and default position Vgmax. In addition, one-sided or two-sided damping is optionally available. The control pressure supply operates with oil from the high-pressure circuit. Accordingly, for reliable functionality under all conditions, a minimum pressure must be ensured. If the working pressure level is too low for the control function, the required pressue can be connected to the port “G” from an outside pressure supply.



Technical Specification | Controls | Displacement Controller | E2

In the following you will find the technical specifications of the displacement and pressure controllers for the CMV. These are subdivided into electric and hydraulic displacement controllers as well as pressure controllers or override signals. First get an overview of the basic specs, options and characteristics. Note the short designations such as „E2“ or „P0“. In the section Find Model Code & Availability, you can then check the availability of the corresponding controllers and compile your desired configuration using the short designations as a segment of the model code.



Hydraulic Diagram (Configuration Examples)				
Hydraulic diagram upon request			Hydraulic diagram upon request	
			Hydraulic diagram upon request	
			Hydraulic diagram upon request	
			Hydraulic diagram upon request	

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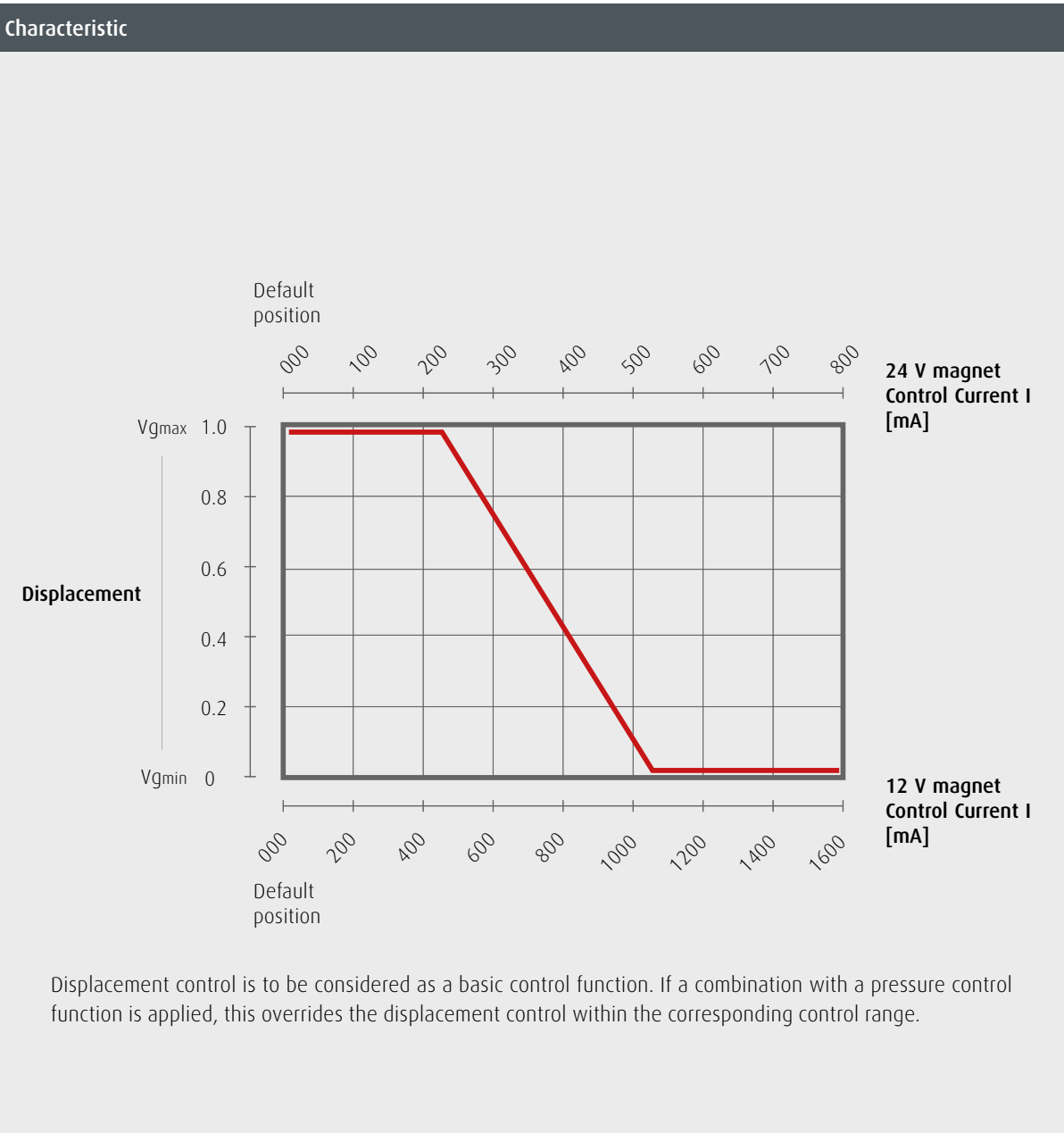
P8



In the following you will find the technical specifications of the displacement and pressure controllers for the CMV. These are subdivided into electric and hydraulic displacement controllers as well as pressure controllers or override signals. First get an overview of the basic specs, options and characteristics. Note the short designations such as „E2“ or „P0“. In the section Find Model Code & Availability, you can then check the availability of the corresponding controllers and compile your desired configuration using the short designations as a segment of the model code.

Basic Specification										
Magnet				12 V	24 V					
Voltage			V	12 (-10%/+ 20 %)	24 (-10%/+ 20%)					
Begin of Control/ Default position	Vg _{max} / Maximum Torque/ Minimum Speed	Current	mA	450	225					
End of Control	Vg _{min} / Minimum Torque/ Maximum Speed			1050	525					
Limit		Limit current	A	1.3	0.65					
Solenoid		Electrical resistance	Ω	6.3	24.6					
Dither		Frequency	Hz	100	100					
		Minimum amplitude	mA	320	160					
Duty Cycle			%	100	100					
Control press. supply	Minimum pressure at work port A/B		bar	30						
Protection class				See connector						
Options										
Damping	Nominal size				60	85	115	140	170	215
	Approx. swiveling speed at 200 bar	Undamped	1/4 Vg _{max} -> Vg _{max}	s	-	0.15	0.2	0.2	0.3	0.5
			Vg _{max} -> 1/4 Vg _{max}		-	0.15	0.2	0.2	0.3	0.5
		Damped	1/4 Vg _{max} -> Vg _{max}		-	0.3	0.5	0.5	0.6	1.0
			Vg _{max} -> 1/4 Vg _{max}		-	0.3	0.5	0.5	0.6	1.0

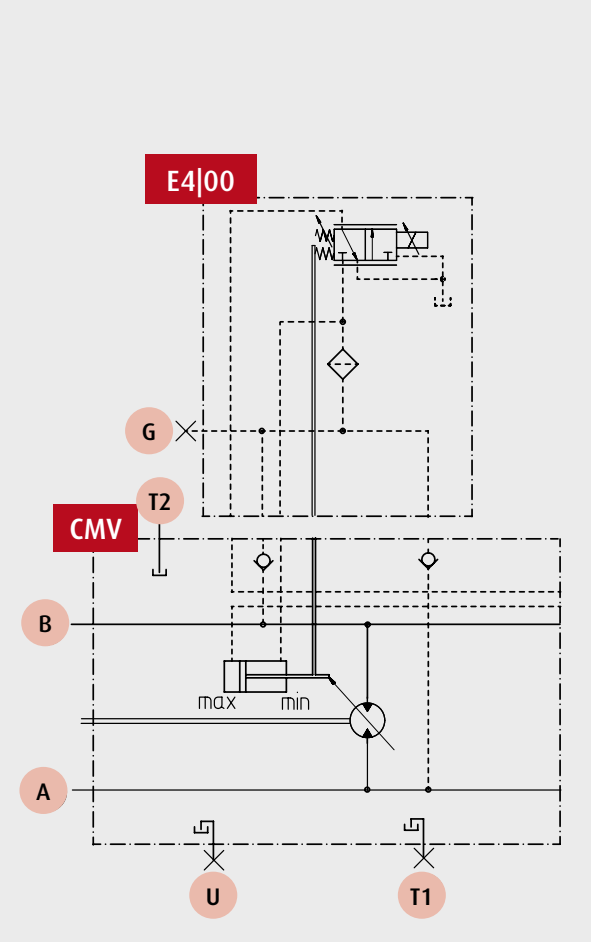
The displacement controller E4 is an electric controller that enables stepless negative control (proportional to the applied control current) and default position Vg_{max}. In addition, one-sided or two-sided damping is optionally available. The control pressure supply operates with oil from the high-pressure circuit. Accordingly, for reliable functionality under all conditions, a minimum pressure must be ensured. If the working pressure level is too low for the control function, the required pressue can be connected to the port “G” from an outside pressure supply.



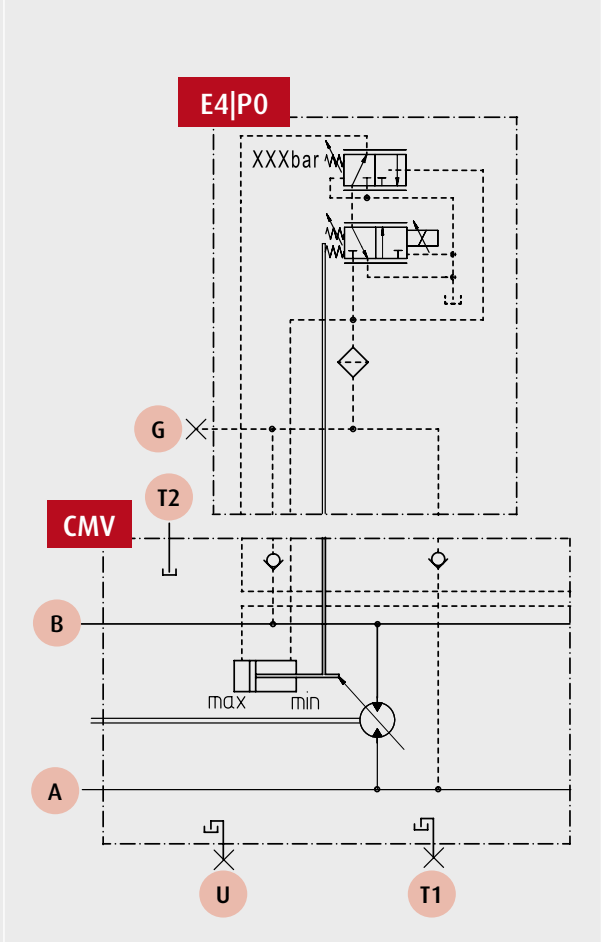
In the following you will find the technical specifications of the displacement and pressure controllers for the CMV. These are subdivided into electric and hydraulic displacement controllers as well as pressure controllers or override signals. First get an overview of the basic specs, options and characteristics. Note the short designations such as „E2“ or „P0“. In the section Find Model Code & Availability, you can then check the availability of the corresponding controllers and compile your desired configuration using the short designations as a segment of the model code.

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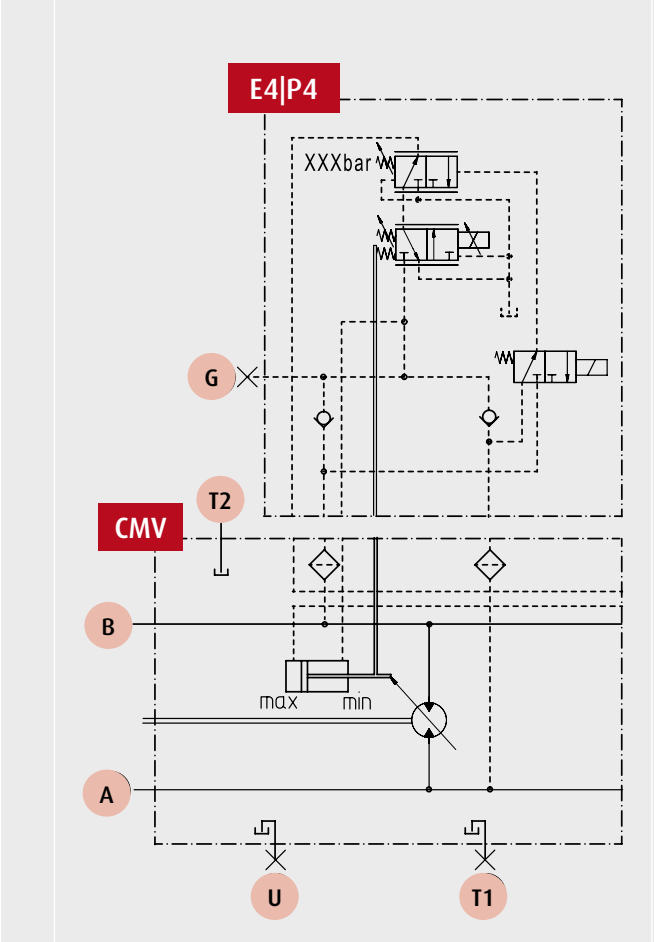
E4|00



E4|P0



E4|P4



CMV	Basic motor (without Controls/Functions/Options)	T1	Drain/vent ports, ISO6149	E4 00	Displ. Contrl. E4 + Press. Contrl. 00
A	High pressure work ports, ISO 6162-2	T2	Drain/vent port, ISO6149	E4 P0	Displ. Contrl. E4 + Press. Contrl. P0
B		U		Drain/vent port, ISO6149	E4 P4
				G	External control pressure supply

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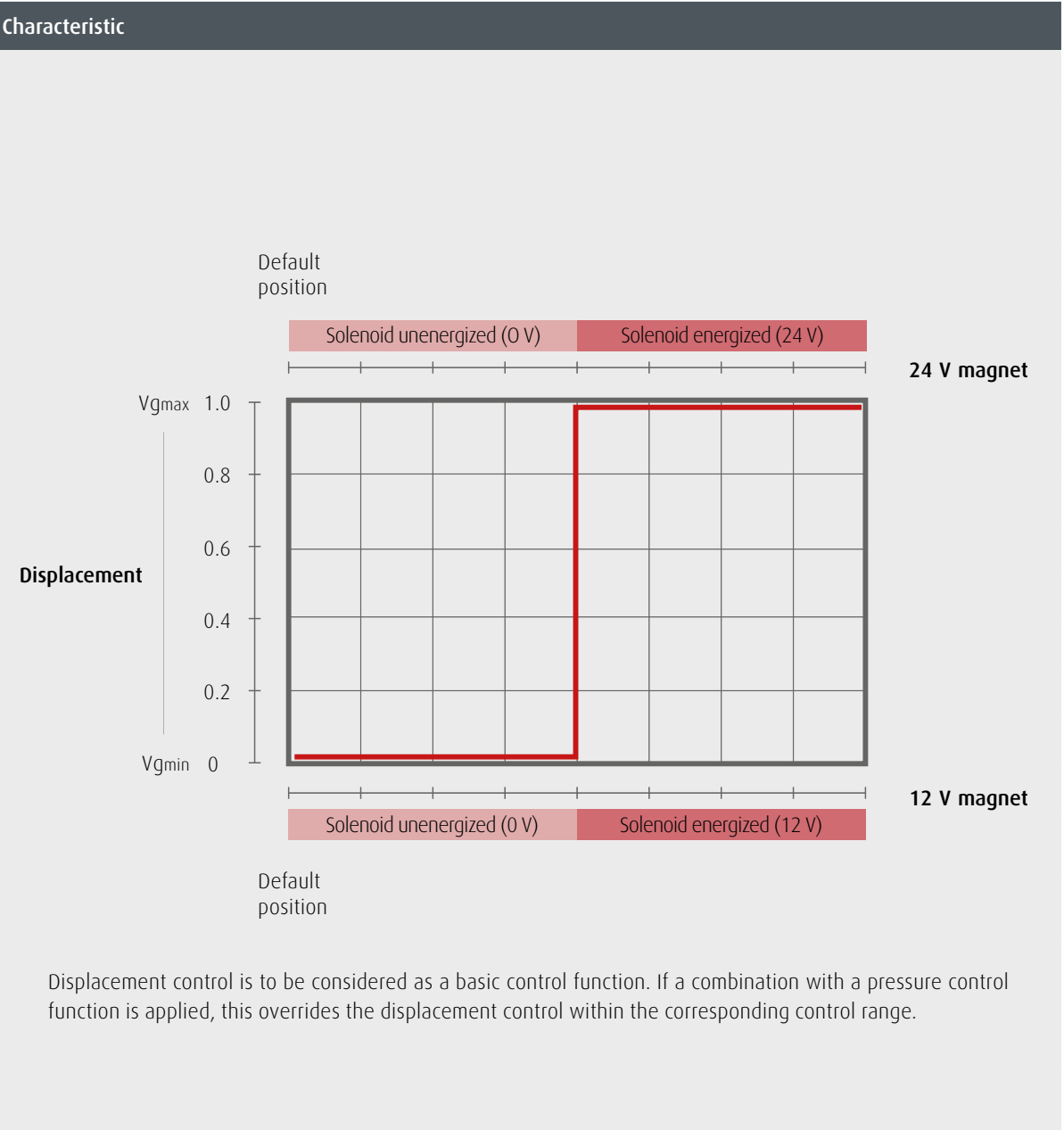
P8



In the following you will find the technical specifications of the displacement and pressure controllers for the CMV. These are subdivided into electric and hydraulic displacement controllers as well as pressure controllers or override signals. First get an overview of the basic specs, options and characteristics. Note the short designations such as „E2“ or „P0“. In the section Find Model Code & Availability, you can then check the availability of the corresponding controllers and compile your desired configuration using the short designations as a segment of the model code.

Basic Specification										
Magnet					12 V		24 V			
Voltage				V	12 (-10%/+ 20 %)		24 (-10%/+ 20%)			
Begin of Control/ Default position	Vg _{min} / Minimum Torque/ Maximum Speed	Status solenoid			Solenoid unenergized					
End of Control	Vg _{max} / Maximum Torque/ Minimum Speed				Solenoid energized					
Solenoid		Electrical resistance		Ω	6.3		24.6			
Duty Cycle				%	100		100			
Control press. supply	Minimum pressure at work port A/B			bar	30					
Protection class					See connector					
Options										
Damping	Nominal size				60	85	115	140	170	215
	Approx. swiveling speed at 200 bar	Undamped	1/4 Vg _{max} -> Vg _{max}	S	upon request	upon request	upon request	upon request	upon request	upon request
			Vg _{max} -> 1/4 Vg _{max}		upon request	upon request	upon request	upon request	upon request	upon request
		Damped	1/4 Vg _{max} -> Vg _{max}		upon request	upon request	upon request	upon request	upon request	upon request
			Vg _{max} -> 1/4 Vg _{max}		upon request	upon request	upon request	upon request	upon request	upon request

The displacement controller E5 is an electric controller that enables 2-point positive control and default position Vgmin. In addition, one-sided or two-sided damping is optionally available. The control pressure supply operates with oil from the high-pressure circuit. Accordingly, for reliable functionality under all conditions, a minimum pressure must be ensured. If the working pressure level is too low for the control function, the required pressue can be connected to the port “G” from an outside pressure supply.



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In the following you will find the technical specifications of the displacement and pressure controllers for the CMV. These are subdivided into electric and hydraulic displacement controllers as well as pressure controllers or override signals. First get an overview of the basic specs, options and characteristics. Note the short designations such as „E2“ or „P0“. In the section Find Model Code & Availability, you can then check the availability of the corresponding controllers and compile your desired configuration using the short designations as a segment of the model code.

Hydraulic Diagram (Configuration Examples)				
Hydraulic diagram upon request			Hydraulic diagram upon request	
<div></div>	<div></div>	<div></div>	Hydraulic diagram upon request	

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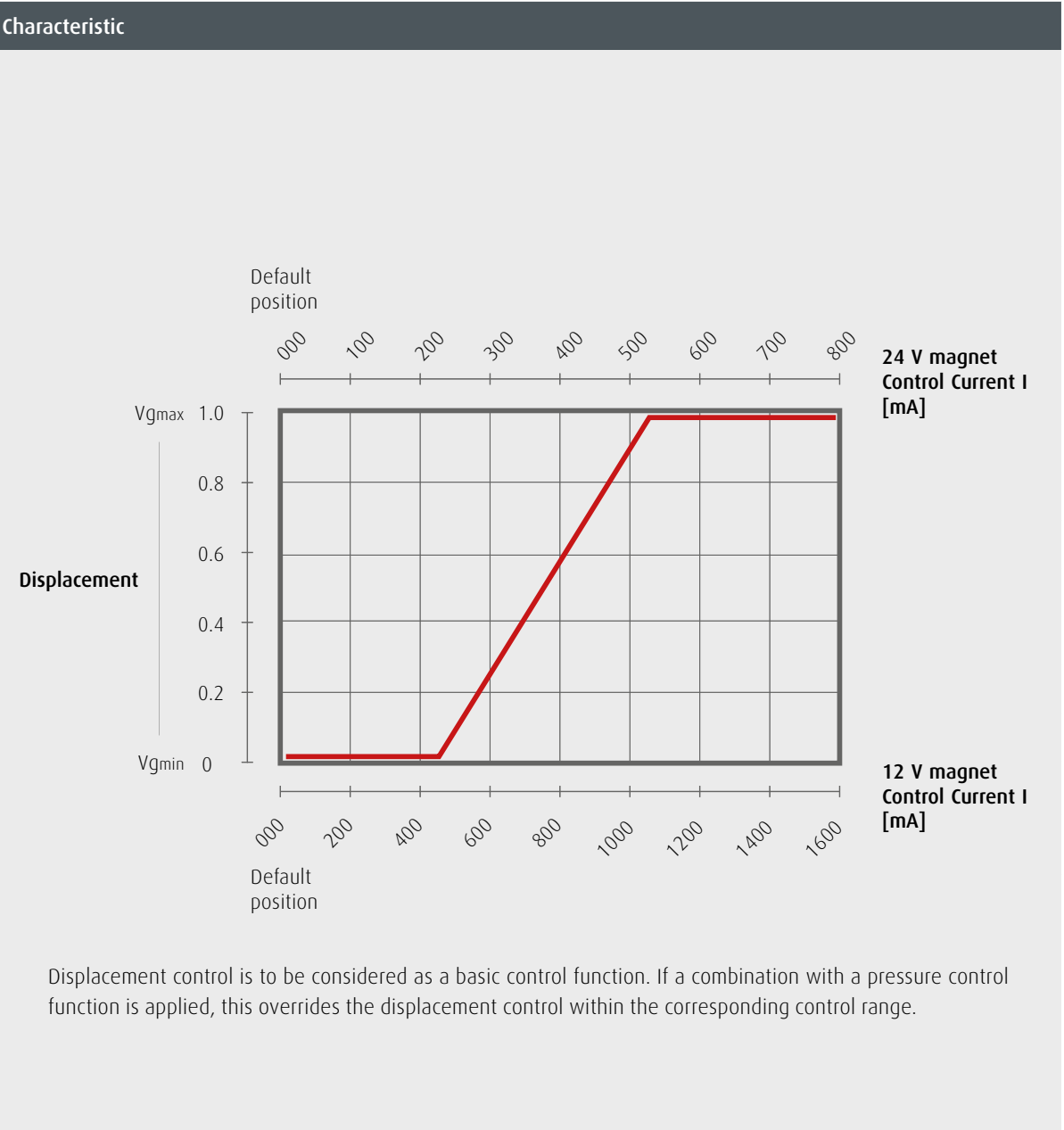
P8



In the following you will find the technical specifications of the displacement and pressure controllers for the CMV. These are subdivided into electric and hydraulic displacement controllers as well as pressure controllers or override signals. First get an overview of the basic specs, options and characteristics. Note the short designations such as „E2“ or „P0“. In the section Find Model Code & Availability, you can then check the availability of the corresponding controllers and compile your desired configuration using the short designations as a segment of the model code.

Basic Specification										
Magnet				12 V	24 V					
Voltage			V	12 (-10%/+ 20 %)	24 (-10%/+ 20%)					
Begin of Control/ Default position	Vg _{min} / Minimum Torque/ Maximum Speed	Current	mA	450	225					
End of Control	Vg _{max} / Maximum Torque/ Minimum Speed			1050	525					
Limit		Limit current	A	1.3	0.65					
Solenoid		Electrical resistance	Ω	6.3	24.6					
Dither		Frequency	Hz	100	100					
		Minimum amplitude	mA	320	160					
Duty Cycle			%	100	100					
Control press. supply	Minimum pressure at work port A/B		bar	30						
Protection class				See connector						
Options										
Damping	Nominal size				60	85	115	140	170	215
	Approx. swiveling speed at 200 bar	Undamped	1/4 Vg _{max} -> Vg _{max}	s	-	0.15	0.2	0.2	0.3	0.5
			Vg _{max} -> 1/4 Vg _{max}		-	0.15	0.2	0.2	0.3	0.5
		Damped	1/4 Vg _{max} -> Vg _{max}		-	0.3	0.5	0.5	0.6	1.0
			Vg _{max} -> 1/4 Vg _{max}		-	0.3	0.5	0.5	0.6	1.0

The displacement controller E6 is an electric controller that enables stepless positive control (proportional to the applied control current) and default position Vgmin. In addition, one-sided or two-sided damping is optionally available. The control pressure supply operates with oil from the high-pressure circuit. Accordingly, for reliable functionality under all conditions, a minimum pressure must be ensured. If the working pressure level is too low for the control function, the required pressue can be connected to the port “G” from an outside pressure supply.



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In the following you will find the technical specifications of the displacement and pressure controllers for the CMV. These are subdivided into electric and hydraulic displacement controllers as well as pressure controllers or override signals. First get an overview of the basic specs, options and characteristics. Note the short designations such as „E2“ or „P0“. In the section Find Model Code & Availability, you can then check the availability of the corresponding controllers and compile your desired configuration using the short designations as a segment of the model code.

Hydraulic Diagram (Configuration Examples)



CMV	Basic motor (without Controls/Functions/Options)	T1	Drain/vent ports, ISO6149	E6 00	Displ. Contrl. E6 + Press. Contrl. 00		
		T2	Drain/vent ports, ISO6149	G	External control pressure supply		
A	High pressure work ports, ISO 6162-2	U	Drain/vent port, ISO6149				
B							

Technical Specification | Controls | Displacement Controller | H2

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Hydraulic Controller

H2

H4

H5

H6

Pressure Control/Override

00

P0


P1

P3

P4

P6

P8

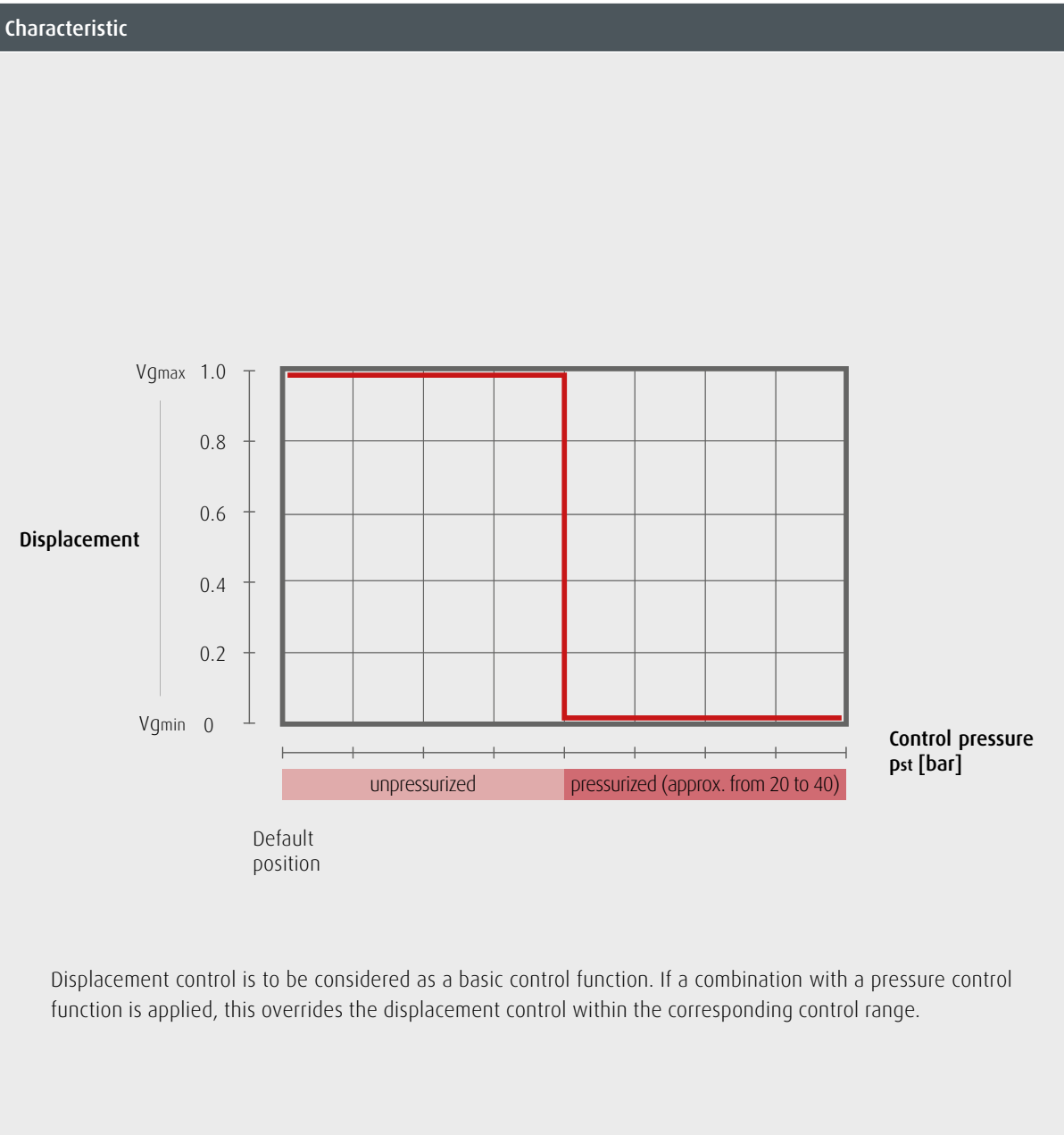


In the following you will find the technical specifications of the displacement and pressure controllers for the CMV. These are subdivided into electric and hydraulic displacement controllers as well as pressure controllers or override signals. First get an overview of the basic specs, options and characteristics. Note the short designations such as „E2“ or „P0“. In the section Find Model Code & Availability, you can then check the availability of the corresponding controllers and compile your desired configuration using the short designations as a segment of the model code.

Basic Specification					
Begin of control/ Default position	Vg _{max} / Maximum torque/ Minimum speed	Control pressure (pst)		bar	Pilot port unpressurized
End of control	Vg _{min} / Minimum torque/ Maximum speed	Control pressure (pst)		bar	Pilot port pressurized (approx. from 20 to 40)
Reference	Reference pressure				Case pressure
Limit	Maximum pilot pressure			bar	50
Control press. supply	Minimum pressure at work port A/B			bar	30
Threaded port					ISO 6149-1 M14x1.5

Damping	Nominal size				60	85	115	140	170	215
	Approx. swiveling speed at 200 bar	Undamped	1/4 Vg _{max} -> Vg _{max}	s	-	0.15	0.2	0.2	0.3	0.5
			Vg _{max} -> 1/4 Vg _{max}		-	0.15	0.2	0.2	0.3	0.5
		Damped	1/4 Vg _{max} -> Vg _{max}		-	0.3	0.5	0.5	0.6	1.0
			Vg _{max} -> 1/4 Vg _{max}		-	0.3	0.5	0.5	0.6	1.0

The displacement controller H2 is an hydraulic controller that enables 2-point negative control and default position Vg_{max}. In addition, one-sided or two-sided damping is optionally available. The control pressure supply operates with oil from the high-pressure circuit. Accordingly, for reliable functionality under all conditions, a minimum pressure must be ensured. If the working pressure level is too low for the control function, the required pressue can be connected to the port “G” from an outside pressure supply.



In the following you will find the technical specifications of the displacement and pressure controllers for the CMV. These are subdivided into electric and hydraulic displacement controllers as well as pressure controllers or override signals. First get an overview of the basic specs, options and characteristics. Note the short designations such as „E2“ or „P0“. In the section Find Model Code & Availability, you can then check the availability of the corresponding controllers and compile your desired configuration using the short designations as a segment of the model code.

Hydraulic Diagram (Configuration Examples)				
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Hydraulic Controller

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H4

H5

H6

Pressure Control/Override

00

P0


P1

P3

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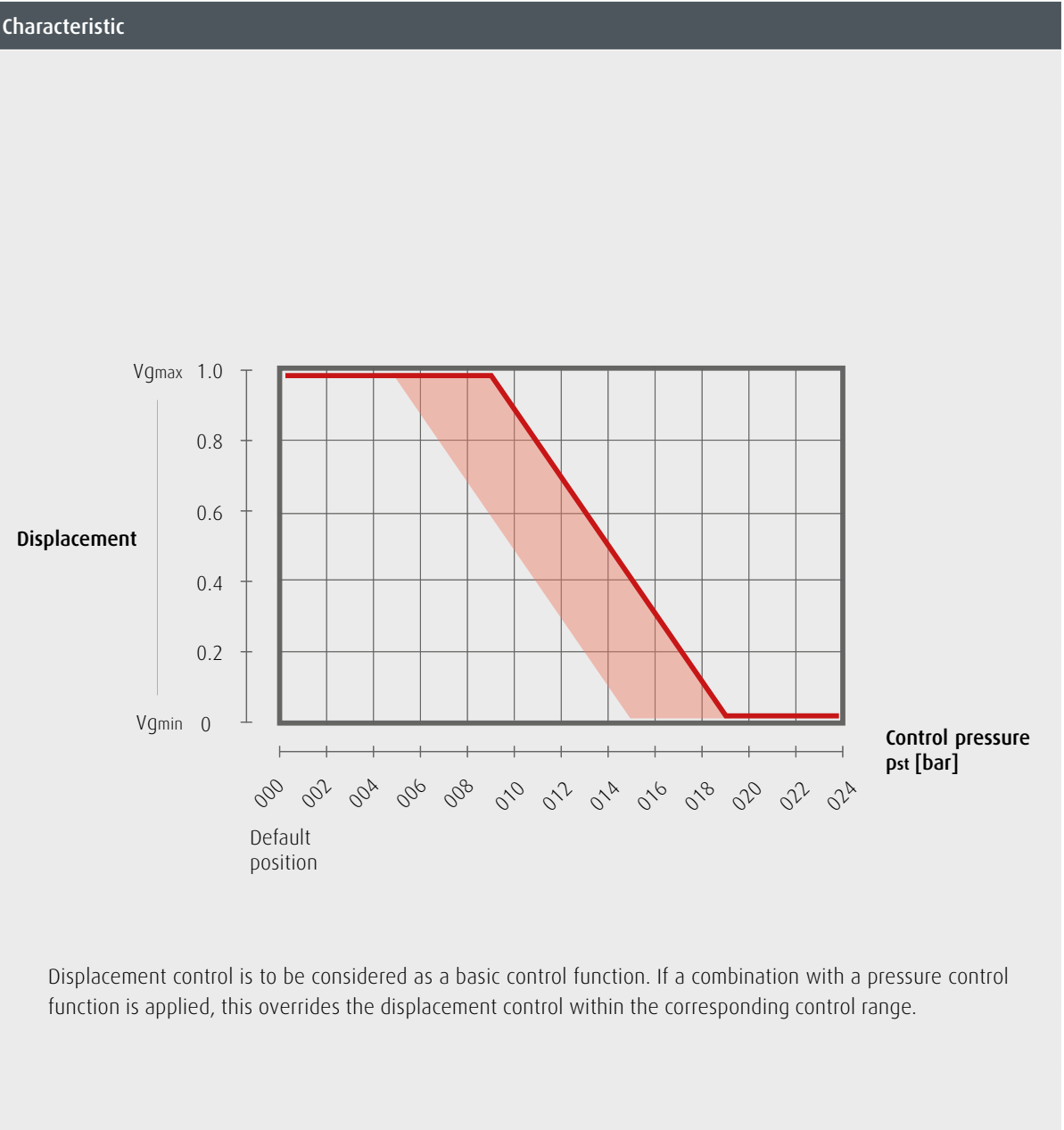


In the following you will find the technical specifications of the displacement and pressure controllers for the CMV. These are subdivided into electric and hydraulic displacement controllers as well as pressure controllers or override signals. First get an overview of the basic specs, options and characteristics. Note the short designations such as „E2“ or „P0“. In the section Find Model Code & Availability, you can then check the availability of the corresponding controllers and compile your desired configuration using the short designations as a segment of the model code.

Basic Specification					
Begin of control/ Default position	Vg _{max} / Maximum torque/ Minimum speed	Control pressure (pst)	Minimum Setting	bar	5
			Maximum Setting		9
End of control	Vg _{min} / Minimum torque/ Maximum speed	Control pressure (pst)	Minimum Setting		15
			Maximum Setting		19
Reference	Reference pressure				Case pressure
Limit	Maximum pilot pressure			bar	50
Control press. supply	Minimum pressure at work port A/B			bar	30
Threaded port					ISO 6149-1 M14x1.5

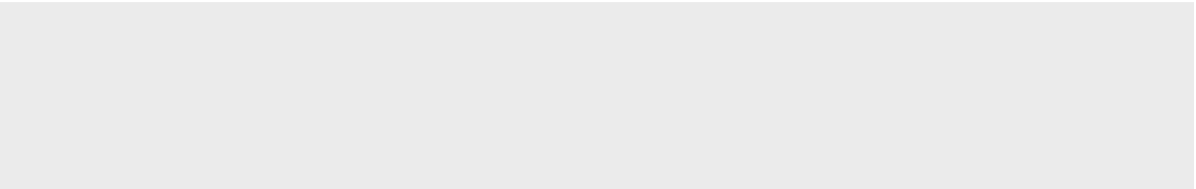
Damping	Nominal size				60	85	115	140	170	215
	Approx. swiveling speed at 200 bar	Undamped	1/4 Vg _{max} -> Vg _{max}	s	-	0.15	0.2	0.2	0.3	0.5
			Vg _{max} -> 1/4 Vg _{max}		-	0.15	0.2	0.2	0.3	0.5
		Damped	1/4 Vg _{max} -> Vg _{max}		-	0.3	0.5	0.5	0.6	1.0
			Vg _{max} -> 1/4 Vg _{max}		-	0.3	0.5	0.5	0.6	1.0

The displacement controller H4 is an hydraulic controller that enables stepless negative control (proportional to the applied pilot pressure) and default position Vg_{max}. In addition, one-sided or two-sided damping is optionally available. The control pressure supply operates with oil from the high-pressure circuit. Accordingly, for reliable functionality under all conditions, a minimum pressure must be ensured. If the working pressure level is too low for the control function, the required presue can be connected to the port “G” from an outside pressure supply.



Technical Specification | Controls | Displacement Controller | H4

In the following you will find the technical specifications of the displacement and pressure controllers for the CMV. These are subdivided into electric and hydraulic displacement controllers as well as pressure controllers or override signals. First get an overview of the basic specs, options and characteristics. Note the short designations such as „E2“ or „P0“. In the section Find Model Code & Availability, you can then check the availability of the corresponding controllers and compile your desired configuration using the short designations as a segment of the model code.



Hydraulic Diagram (Configuration Examples)				
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			Hydraulic diagram upon request	
			Hydraulic diagram upon request	
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Pressure Control/Override

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H4

H5

H6

Pressure Control/Override

00

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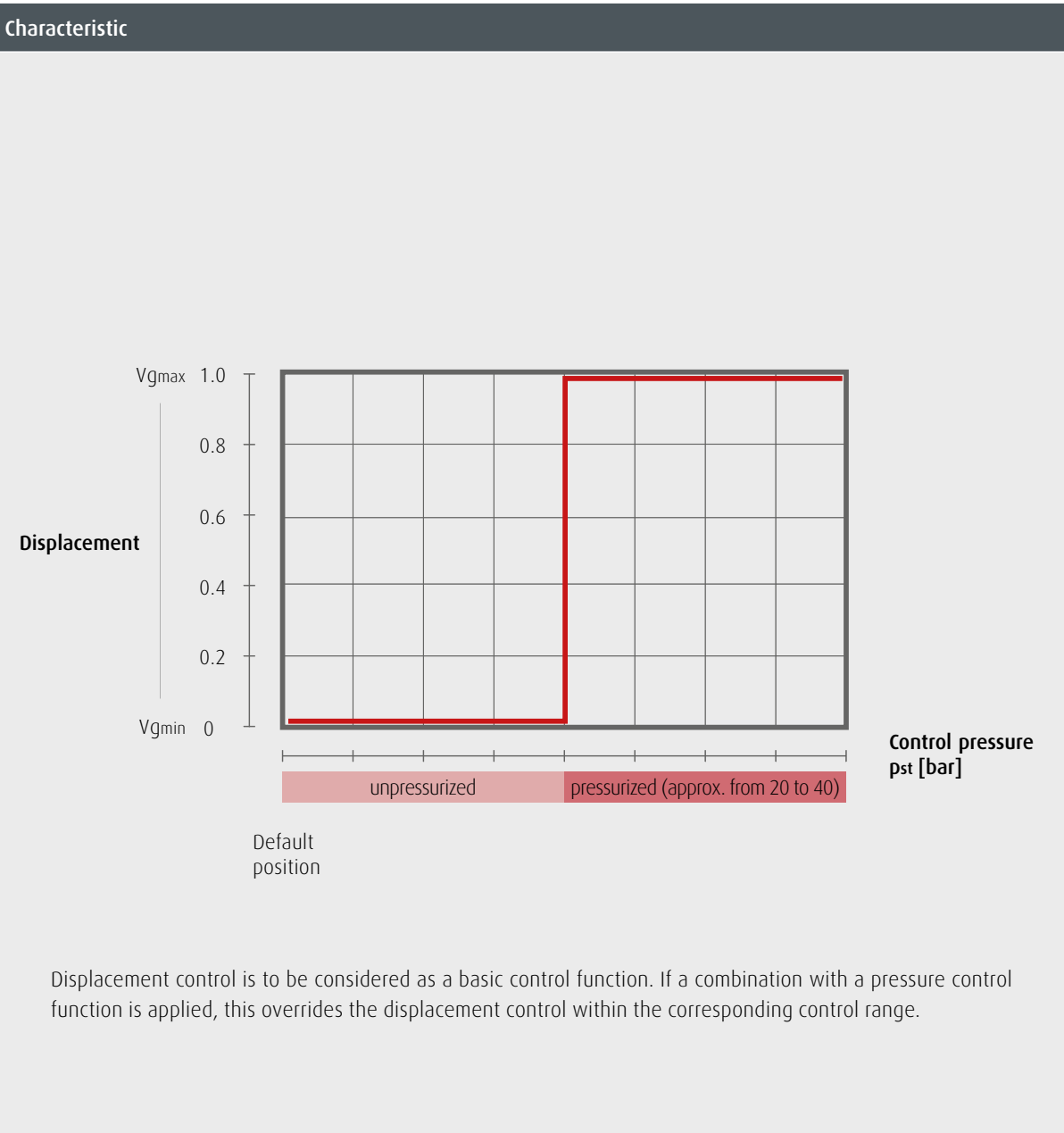


In the following you will find the technical specifications of the displacement and pressure controllers for the CMV. These are subdivided into electric and hydraulic displacement controllers as well as pressure controllers or override signals. First get an overview of the basic specs, options and characteristics. Note the short designations such as „E2“ or „P0“. In the section Find Model Code & Availability, you can then check the availability of the corresponding controllers and compile your desired configuration using the short designations as a segment of the model code.

Basic Specification					
Begin of control/ Default position	Vg _{min} / Minimum torque/ Maximum speed	Control pressure (pst)		bar	Pilot port unpressurized
End of control	Vg _{max} / Maximum torque/ Minimum speed	Control pressure (pst)		bar	Pilot port pressurized (approx. from 20 to 40)
Reference	Reference pressure				Case pressure
Limit	Maximum pilot pressure			bar	50
Control press. supply	Minimum pressure at work port A/B			bar	30
Threaded port					ISO 6149-1 M14x1.5

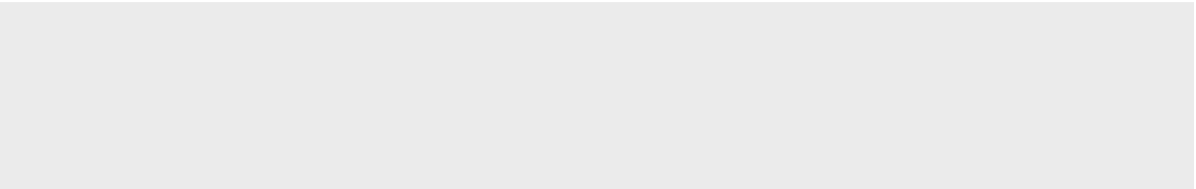
Damping	Nominal size				60	85	115	140	170	215
	Approx. swiveling speed at 200 bar	Undamped	1/4 Vgmax -> Vgmax	s	-	n.a.	n.a.	n.a.	n.a.	n.a.
			Vgmax -> 1/4 Vgmax		-	n.a.	n.a.	n.a.	n.a.	n.a.
		Damped	1/4 Vgmax -> Vgmax		-	n.a.	n.a.	n.a.	n.a.	n.a.
			Vgmax -> 1/4 Vgmax		-	n.a.	n.a.	n.a.	n.a.	n.a.

The displacement controller H5 is an hydraulic controller that enables 2-point positive control and default position Vgmin. In addition, one-sided or two-sided damping is optionally available. The control pressure supply operates with oil from the high-pressure circuit. Accordingly, for reliable functionality under all conditions, a minimum pressure must be ensured. If the working pressure level is too low for the control function, the required pressue can be connected to the port “G” from an outside pressure supply.



Technical Specification | Controls | Displacement Controller | H5

In the following you will find the technical specifications of the displacement and pressure controllers for the CMV. These are subdivided into electric and hydraulic displacement controllers as well as pressure controllers or override signals. First get an overview of the basic specs, options and characteristics. Note the short designations such as „E2“ or „P0“. In the section Find Model Code & Availability, you can then check the availability of the corresponding controllers and compile your desired configuration using the short designations as a segment of the model code.



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E5

E6

Hydraulic Controller

H2

H4

H5

H6

Pressure Control/Override

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P0


P1

P3

P4

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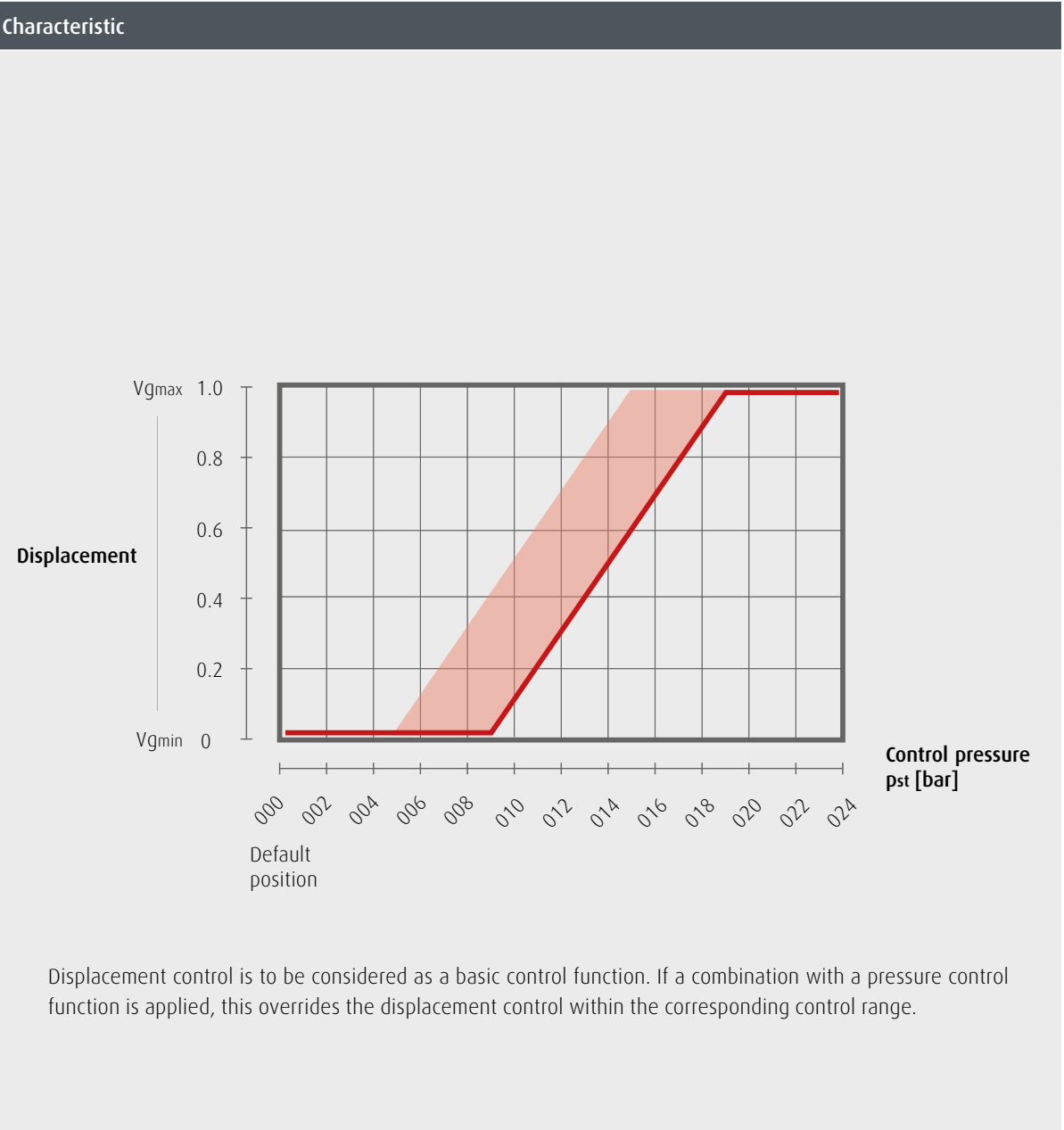


In the following you will find the technical specifications of the displacement and pressure controllers for the CMV. These are subdivided into electric and hydraulic displacement controllers as well as pressure controllers or override signals. First get an overview of the basic specs, options and characteristics. Note the short designations such as „E2“ or „P0“. In the section Find Model Code & Availability, you can then check the availability of the corresponding controllers and compile your desired configuration using the short designations as a segment of the model code.

Basic Specification					
Begin of control/ Default position	Vg _{max} / Maximum torque/ Minimum speed	Control pressure (pst)	Minimum Setting	bar	5
			Maximum Setting		9
End of control	Vg _{min} / Minimum torque/ Maximum speed	Control pressure (pst)	Minimum Setting		15
			Maximum Setting		19
Reference	Reference pressure				Case pressure
Limit	Maximum pilot pressure			bar	50
Control press. supply	Minimum pressure at work port A/B			bar	30
Threaded port					ISO 6149-1 M14x1.5

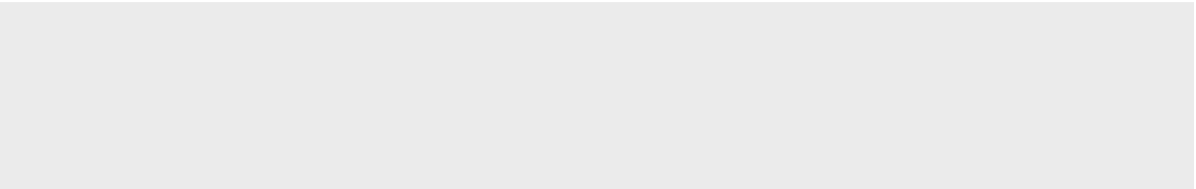
Damping	Nominal size				60	85	115	140	170	215
	Approx. swiveling speed at 200 bar	Undamped	1/4 Vg _{max} -> Vg _{max}	s	-	0.15	0.2	0.2	0.3	0.5
			Vg _{max} -> 1/4 Vg _{max}		-	0.15	0.2	0.2	0.3	0.5
		Damped	1/4 Vg _{max} -> Vg _{max}		-	0.3	0.5	0.5	0.6	1.0
			Vg _{max} -> 1/4 Vg _{max}		-	0.3	0.5	0.5	0.6	1.0

The displacement controller H6 is an hydraulic controller that enables stepless positive control (proportional to the applied pilot pressure) and default position Vg_{min}. In addition, one-sided or two-sided damping is optionally available. The control pressure supply operates with oil from the high-pressure circuit. Accordingly, for reliable functionality under all conditions, a minimum pressure must be ensured. If the working pressure level is too low for the control function, the required pressue can be connected to the port “G” from an outside pressure supply.



Technical Specification | Controls | Displacement Controller | H6

In the following you will find the technical specifications of the displacement and pressure controllers for the CMV. These are subdivided into electric and hydraulic displacement controllers as well as pressure controllers or override signals. First get an overview of the basic specs, options and characteristics. Note the short designations such as „E2“ or „P0“. In the section Find Model Code & Availability, you can then check the availability of the corresponding controllers and compile your desired configuration using the short designations as a segment of the model code.



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Pressure Control/Override

00

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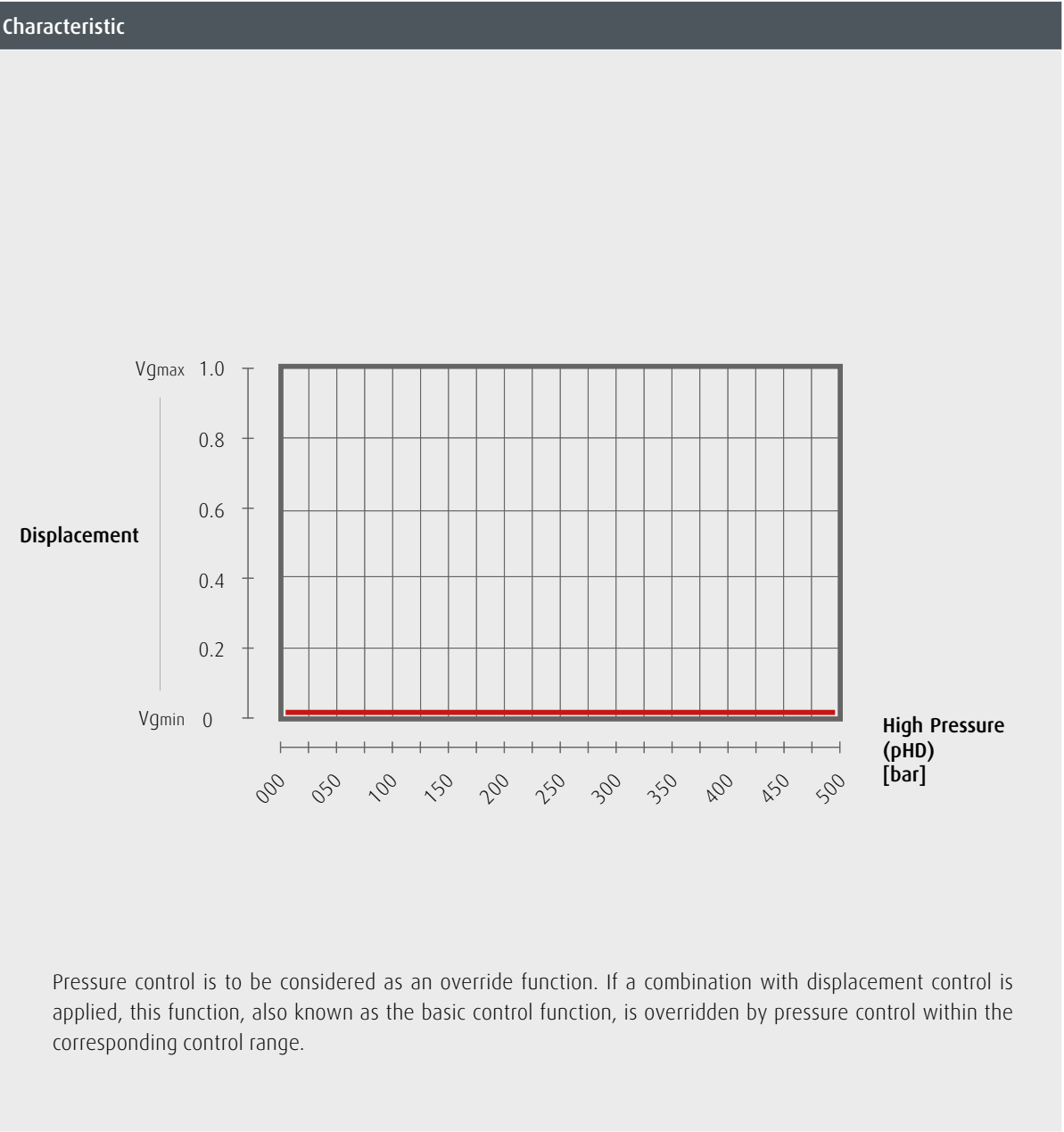
Technical Specification | Controls | Pressure Controller and/or Override Signal | 00

In the following you will find the technical specifications of the displacement and pressure controllers for the CMV. These are subdivided into electric and hydraulic displacement controllers as well as pressure controllers or override signals. First get an overview of the basic specs, options and characteristics. Note the short designations such as „E2“ or „P0“. In the section Find Model Code & Availability, you can then check the availability of the corresponding controllers and compile your desired configuration using the short designations as a segment of the model code.

Basic Specification						
Basic setting	Begin of Control/ Default position	Vgmin/ Minimum Torque/ Maximum Speed	Control pressure (pHD)	Minimum Setting	bar	-
				Maximum Setting		-
	End of Control	Vgmax/ Maximum Torque/ Minimum Speed	Control pressure (pHD)	Minimum Setting		-
				Maximum Setting		-
Reduction of pressure setting	Begin of Control	No reduction of the pressure setting/ Basic function is not affected	Pilot pr. pressure (pst)	bar	-	
			Control pr. pressure (pHD)		-	
	End of Control	Max. reduction of the pressure setting/ Basic function is overriden	Pilot pr. pressure (pst)		-	
			Control pr. pressure (pHD)		-	
Increase of displacement	Vgmax switch		Solenoid unenergized		-	
			Solenoid energized		-	
	Control variable					-
	Control press. supply	Minimum pressure at work port A/B			bar	-

	Damping	Nominal size			60	85	115	140	170	215
		Swiveling speed at 200 bar	Undamped	1/4 Vgmax -> Vgmax	s	-	-	-	-	-
				Vgmax -> 1/4 Vgmax		-	-	-	-	-
			Damped	1/4 Vgmax -> Vgmax		-	-	-	-	-
				Vgmax -> 1/4 Vgmax		-	-	-	-	-

The pressure controller with the abbreviation „00“ is not an individual function. In this case, the component for displacement and pressure control does not support pressure control. When choosing this option, a displacement controller must be considered to control the motor.



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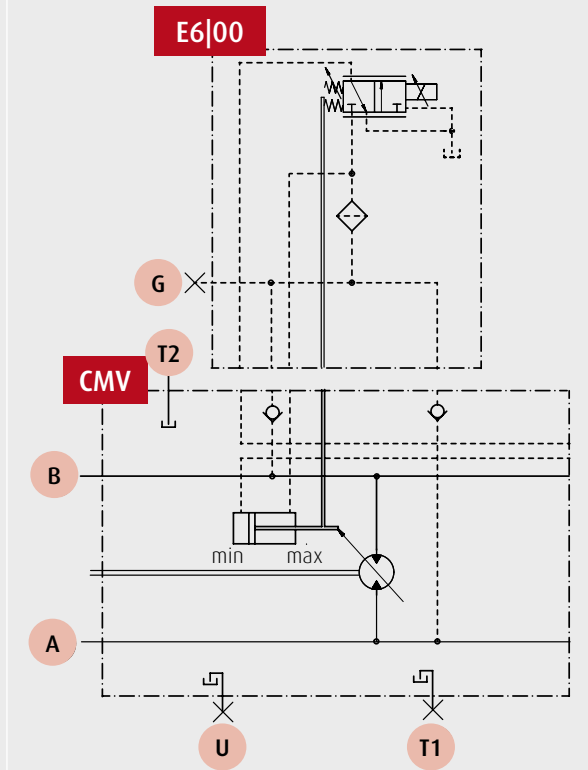
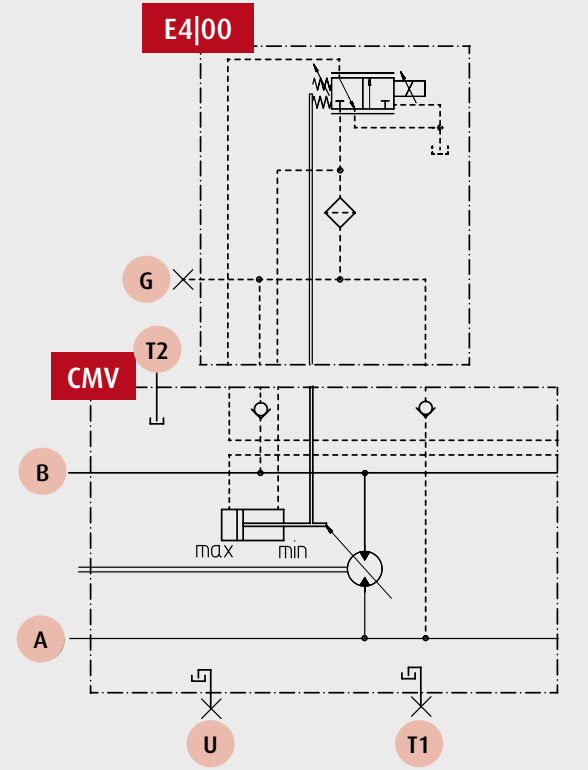
P6

P8



In the following you will find the technical specifications of the displacement and pressure controllers for the CMV. These are subdivided into electric and hydraulic displacement controllers as well as pressure controllers or override signals. First get an overview of the basic specs, options and characteristics. Note the short designations such as „E2“ or „P0“. In the section Find Model Code & Availability, you can then check the availability of the corresponding controllers and compile your desired configuration using the short designations as a segment of the model code.

Hydraulic Diagram (Configuration Examples)



CMV	Basic motor (without Controls/Functions/Options)	T1	Drain/vent ports, ISO6149	E4 00	Displ. Contrl. E4 + Press. Contrl. 00		
		T2	Drain/vent ports, ISO6149	E6 00	Displ. Contrl. E6 + Press. Contrl. 00		
A	High pressure work ports, ISO 6162-2	U	Drain/vent port, ISO6149	G	External control pressure supply		
B							

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Pressure Control/Override

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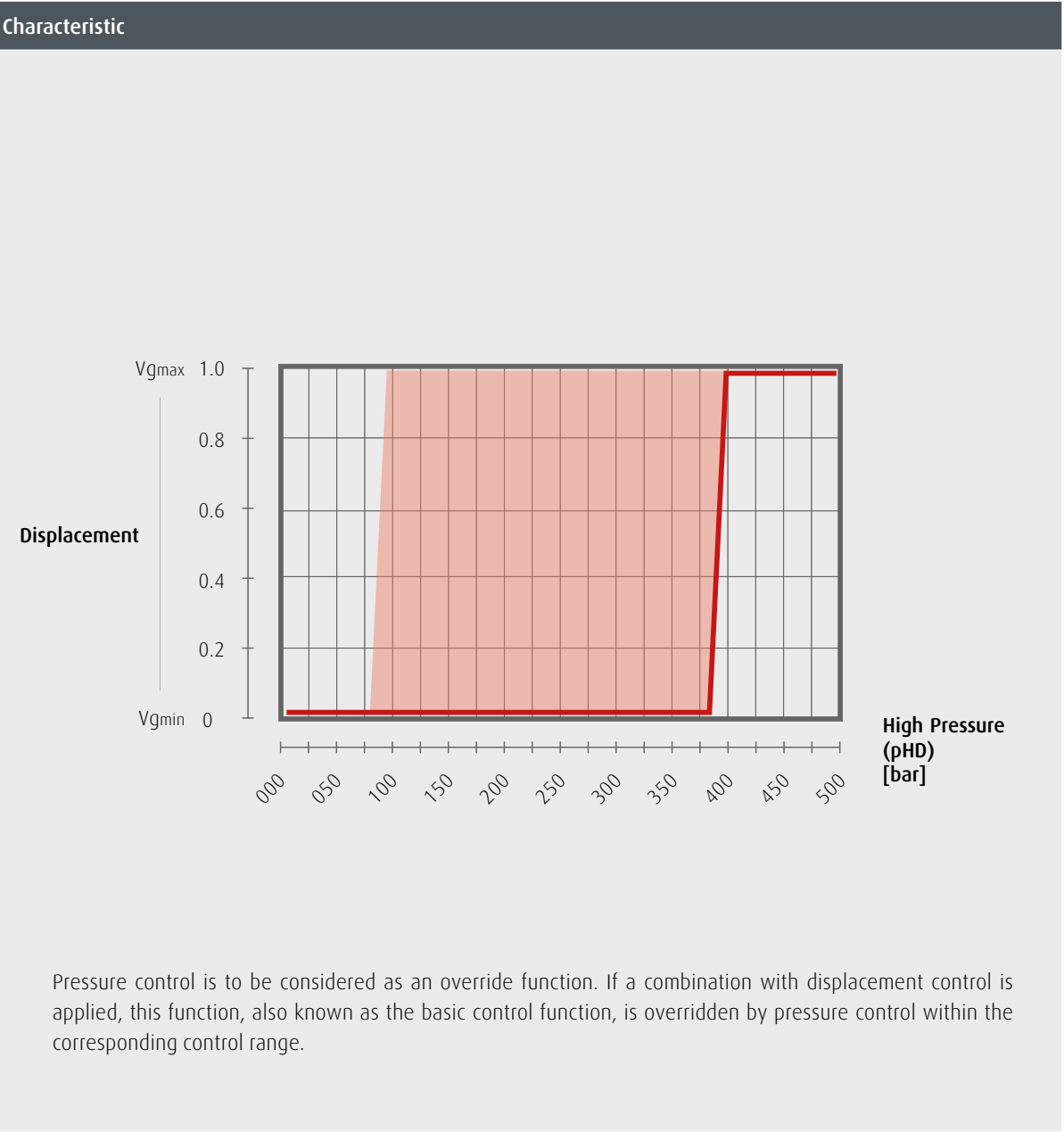
Technical Specification | Controls | Pressure Controller and/or Override Signal | P0

In the following you will find the technical specifications of the displacement and pressure controllers for the CMV. These are subdivided into electric and hydraulic displacement controllers as well as pressure controllers or override signals. First get an overview of the basic specs, options and characteristics. Note the short designations such as „E2“ or „P0“. In the section Find Model Code & Availability, you can then check the availability of the corresponding controllers and compile your desired configuration using the short designations as a segment of the model code.

Basic Specification						
Basic setting	Begin of Control/ Default position	Vgmin/ Minimum Torque/ Maximum Speed	Control pressure (pHD)	Minimum Setting	bar	80
				Maximum Setting		385
	End of Control	Vgmax/ Maximum Torque/ Minimum Speed	Control pressure (pHD)	Minimum Setting		95
				Maximum Setting		400
Reduction of pressure setting	Begin of Control	No reduction of the pressure setting/ Basic function is not affected	Pilot pr. pressure (pst)	bar	n.a.	
			Control pr. pressure (pHD)		n.a.	
	End of Control	Max. reduction of the pressure setting/ Basic function is overriden	Pilot pr. pressure (pst)		n.a.	
			Control pr. pressure (pHD)		n.a.	
Increase of displacement	Vgmax switch		Solenoid unenergized		n.a.	
			Solenoid energized		n.a.	
	Control variable					Work port A or B according to highest pressure value prevailing
	Control press. supply	Minimum pressure at work port A/B			bar	30

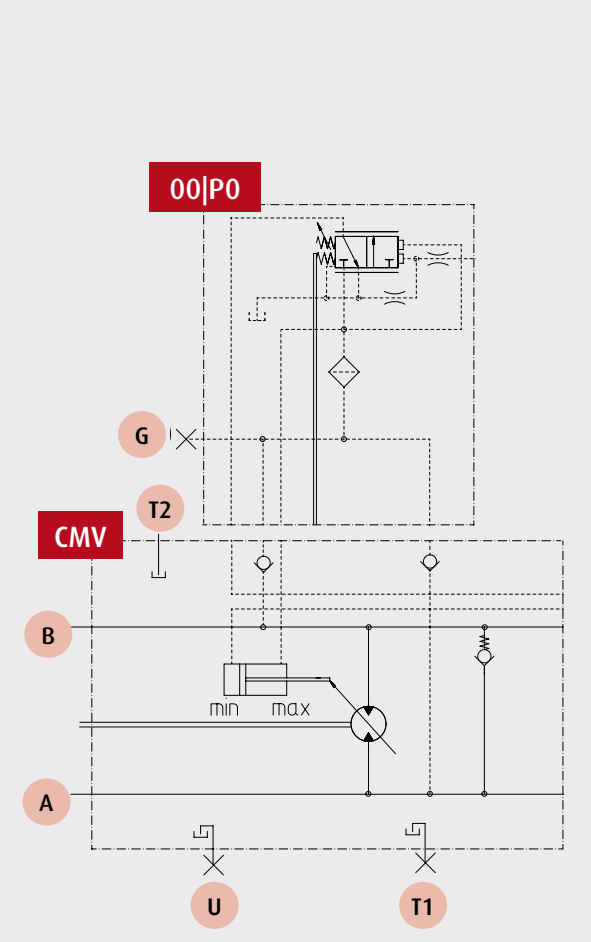
Damping	Nominal size				60	85	115	140	170	215
	Swiveling speed at 200 bar	Undamped	1/4 Vgmax -> Vgmax	s	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
			Vgmax -> 1/4 Vgmax		n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
		Damped	1/4 Vgmax -> Vgmax		upon request	upon request	upon request	upon request	upon request	upon request
			Vgmax -> 1/4 Vgmax		n.a.	n.a.	n.a.	n.a.	n.a.	n.a.

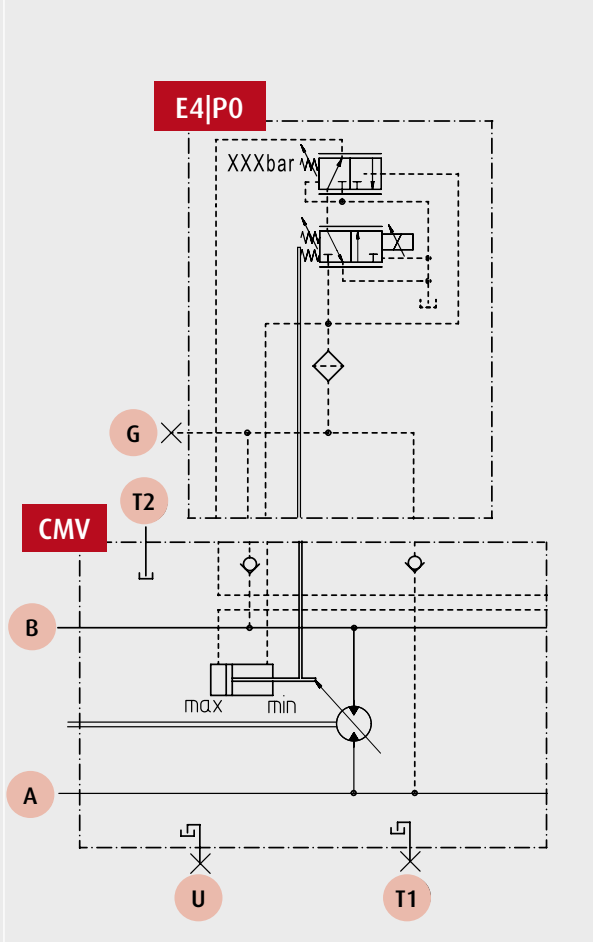
The pressure controller P0 enables self-regulating control depending on prevailing high-pressure level and default position Vgmin without any external signal. In addition, this pressure controller is basically one-sided damped. The control pressure supply operates with oil from the high-pressure circuit. Accordingly, for reliable functionality under all conditions, a minimum pressure must be ensured. If the working pressure level is too low for the control function, the required pressue can be connected to the port “G” from an outside pressure supply.



In the following you will find the technical specifications of the displacement and pressure controllers for the CMV. These are subdivided into electric and hydraulic displacement controllers as well as pressure controllers or override signals. First get an overview of the basic specs, options and characteristics. Note the short designations such as „E2“ or „P0“. In the section Find Model Code & Availability, you can then check the availability of the corresponding controllers and compile your desired configuration using the short designations as a segment of the model code.

Hydraulic Diagram (Configuration Examples)





CMV	Basic motor (without Controls/Functions/Options)	T1	Drain/vent ports, ISO6149	00P0	Displ. Contrl. 00 + Press. Contrl. P0		
A	High pressure work ports, ISO 6162-2	T2	Drain/vent port, ISO6149	E4P0	Displ. Contrl. E4 + Press. Contrl. P0		
B		U		External control pressure supply			



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Hydraulic Controller

H2

H4

H5

H6

Pressure Control/Override

00

P0


P1

P3

P4

P6

P8



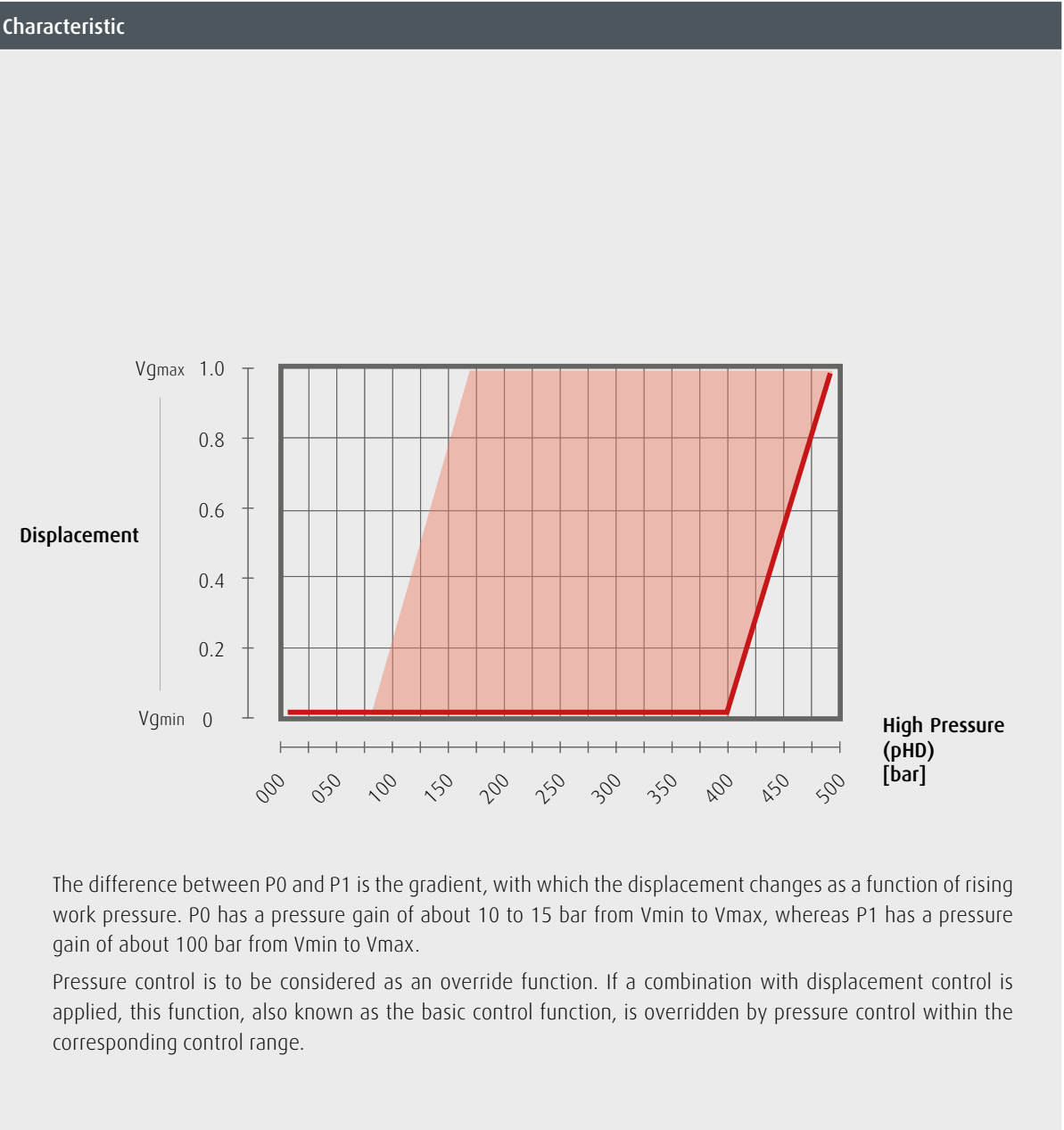
Technical Specification | Controls | Pressure Controller and/or Override Signal | P1

In the following you will find the technical specifications of the displacement and pressure controllers for the CMV. These are subdivided into electric and hydraulic displacement controllers as well as pressure controllers or override signals. First get an overview of the basic specs, options and characteristics. Note the short designations such as „E2“ or „P0“. In the section Find Model Code & Availability, you can then check the availability of the corresponding controllers and compile your desired configuration using the short designations as a segment of the model code.

Basic Specification						
Basic setting	Begin of Control/ Default position	Vgmin/ Minimum Torque/ Maximum Speed	Control pressure (pHD)	Minimum Setting	bar	80
				Maximum Setting		400
	End of Control	Vgmax/ Maximum Torque/ Minimum Speed	Control pressure (pHD)	Minimum Setting		170
				Maximum Setting		490
Reduction of pressure setting	Begin of Control	No reduction of the pressure setting/ Basic function is not affected	Pilot pr. pressure (pst)	bar	n.a.	
			Control pr. pressure (pHD)		n.a.	
	End of Control	Max. reduction of the pressure setting/ Basic function is overriden	Pilot pr. pressure (pst)		n.a.	
			Control pr. pressure (pHD)		n.a.	
Increase of displacement	Vgmax switch		Solenoid unenergized		n.a.	
			Solenoid energized		n.a.	
	Control variable					Work port A or B according to highest pressure value prevailing
	Control press. supply	Minimum pressure at work port A/B			bar	30

Damping	Nominal size				60	85	115	140	170	215
	Swiveling speed at 200 bar	Undamped	1/4 Vgmax -> Vgmax	s	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
			Vgmax -> 1/4 Vgmax		n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
		Damped	1/4 Vgmax -> Vgmax		upon request	upon request	upon request	upon request	upon request	upon request
			Vgmax -> 1/4 Vgmax		n.a.	n.a.	n.a.	n.a.	n.a.	n.a.

The pressure controller P1 enables self-regulating control depending on prevailing high-pressure level and default position Vgmin without any external signal. In addition, this pressure controller is basically one-sided damped. The control pressure supply operates with oil from the high-pressure circuit. Accordingly, for reliable functionality under all conditions, a minimum pressure must be ensured. If the working pressure level is too low for the control function, the required pressure can be connected to the port “G” from an outside pressure supply. The difference between P0 and P1 is the gradient, with which the displacement changes as a function of rising work pressure.



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Hydraulic Controller

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Pressure Control/
Override

00

P0


P1

P3

P4

P6

P8



In the following you will find the technical specifications of the displacement and pressure controllers for the CMV. These are subdivided into electric and hydraulic displacement controllers as well as pressure controllers or override signals. First get an overview of the basic specs, options and characteristics. Note the short designations such as „E2“ or „P0“. In the section Find Model Code & Availability, you can then check the availability of the corresponding controllers and compile your desired configuration using the short designations as a segment of the model code.

Hydraulic Diagram (Configuration Examples)				
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Functions/Options

Displacement Control

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Hydraulic Controller

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Pressure Control/Override

00

P0


P1

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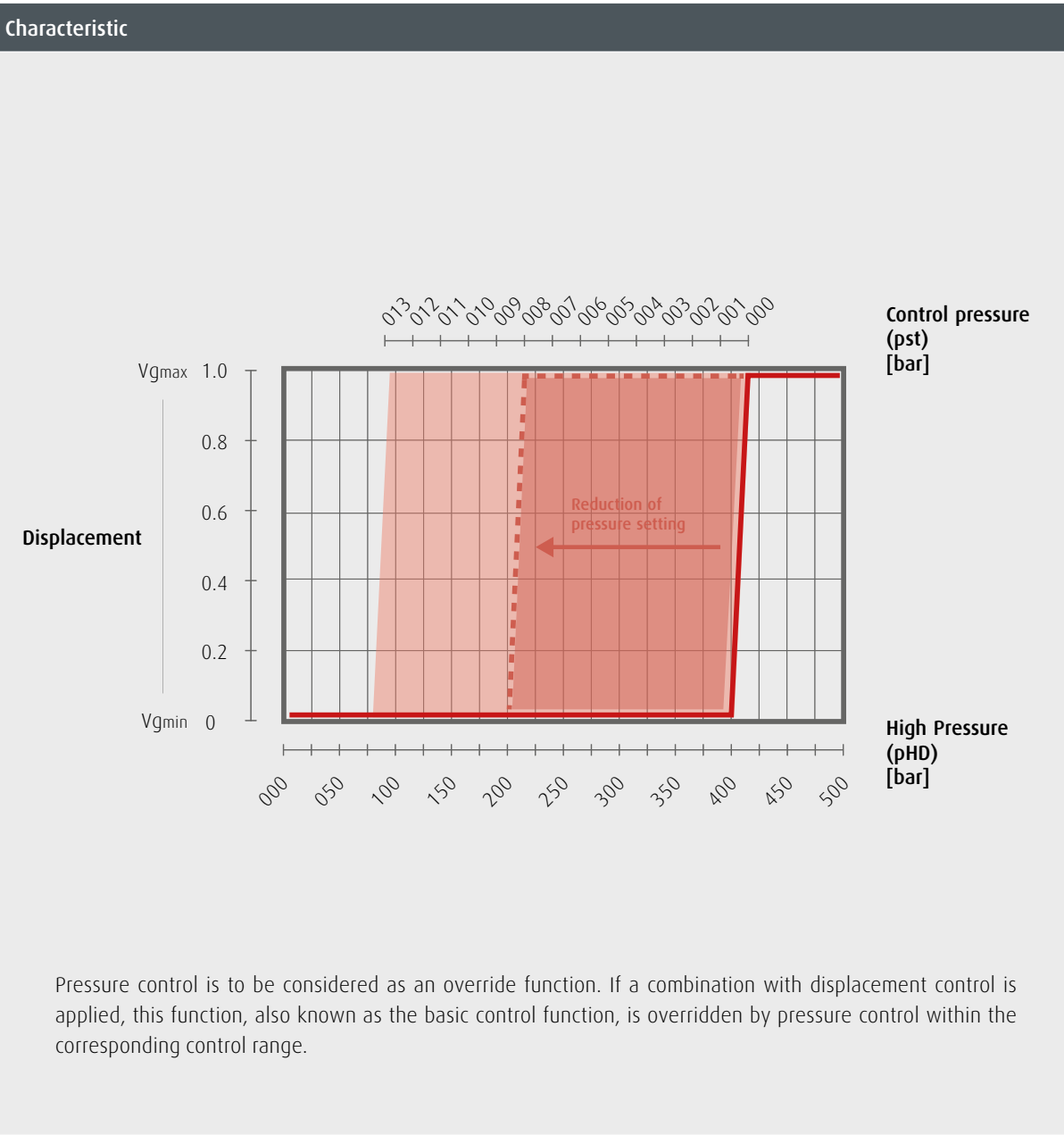


In the following you will find the technical specifications of the displacement and pressure controllers for the CMV. These are subdivided into electric and hydraulic displacement controllers as well as pressure controllers or override signals. First get an overview of the basic specs, options and characteristics. Note the short designations such as „E2“ or „P0“. In the section Find Model Code & Availability, you can then check the availability of the corresponding controllers and compile your desired configuration using the short designations as a segment of the model code.

Basic Specification						
Basic setting	Begin of Control/ Default position	Vgmin/ Minimum Torque/ Maximum Speed	Control pressure (pHD)	Minimum Setting	bar	80
				Maximum Setting		400
	End of Control	Vgmax/ Maximum Torque/ Minimum Speed	Control pressure (pHD)	Minimum Setting		95
				Maximum Setting		415
Reduction of pressure setting	Begin of Control	No reduction of the pressure setting/ Basic function is not affected	Pilot pr. pressure (pst)	bar	0	
			Control pr. pressure (pHD)		according to basic setting	
	End of Control	Max. reduction of the pressure setting/ Basic function is overriden	Pilot pr. pressure (pst)		8	
			Control pr. pressure (pHD)		according to basic setting minus 176	
Increase of displacement	Vgmax switch		Solenoid unenergized		bar	na.
			Solenoid energized			n.a.
	Control variable				bar	Work port A or B according to highest pressure value prevailing
	Control press. supply	Minimum pressure at work port A/B				30

Damping	Nominal size				60	85	115	140	170	215
	Swiveling speed at 200 bar	Undamped	1/4 Vgmax -> Vgmax	s	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
			Vgmax -> 1/4 Vgmax		n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
		Damped	1/4 Vgmax -> Vgmax		upon request	upon request	upon request	upon request	upon request	upon request
			Vgmax -> 1/4 Vgmax		n.a.	n.a.	n.a.	n.a.	n.a.	n.a.

The pressure controller P3 enables self-regulating control depending on prevailing high-pressure level and default position Vgmin without any external signal. According to the desired operating condition, the pressure setting can be reduced continuously via an external signal. In addition, this pressure controller is basically one-sided damped. The control pressure supply operates with oil from the high-pressure circuit. Accordingly, for reliable functionality under all conditions, a minimum pressure must be ensured. If the working pressure level is too low for the control function, the required pressue can be connected to the port “G” from an outside pressure supply.



In the following you will find the technical specifications of the displacement and pressure controllers for the CMV. These are subdivided into electric and hydraulic displacement controllers as well as pressure controllers or override signals. First get an overview of the basic specs, options and characteristics. Note the short designations such as „E2“ or „P0“. In the section Find Model Code & Availability, you can then check the availability of the corresponding controllers and compile your desired configuration using the short designations as a segment of the model code.

Hydraulic Diagram (Configuration Examples)



CMV	Basic motor (without Controls/Functions/Options)	T1	Drain/vent ports, ISO6149	00P3	Displ. Contrl. 00 + Press. Contrl. P3
A	High pressure work ports, ISO 6162-2	T2	Drain/vent port, ISO6149	G	External control pressure supply
B		U		Drain/vent port, ISO6149	X



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Displacement Control

Electrical Controller

00

E2

E4

E5

E6

Hydraulic Controller

H2

H4

H5

H6

Pressure Control/Override

00

P0


P1

P3

P4

P6

P8



In the following you will find the technical specifications of the displacement and pressure controllers for the CMV. These are subdivided into electric and hydraulic displacement controllers as well as pressure controllers or override signals. First get an overview of the basic specs, options and characteristics. Note the short designations such as „E2“ or „P0“. In the section Find Model Code & Availability, you can then check the availability of the corresponding controllers and compile your desired configuration using the short designations as a segment of the model code.

Basic Specification						
Basic setting	Begin of Control/ Default position	Vgmin/ Minimum Torque/ Maximum Speed	Control pressure (pHD)	Minimum Setting	bar	80
				Maximum Setting		400
	End of Control	Vgmax/ Maximum Torque/ Minimum Speed	Control pressure (pHD)	Minimum Setting		95
				Maximum Setting		415
Deactivating of pressure control	Pressure side selection	Work port A pressurized/ direction of rotation: counterclockwise	Solenoid unenergized			Pressure control activated/ Motor remains at Vgmin
			Solenoid energized			Pressure control deactivated
		Work port B pressurized/ direction of rotation: counterclockwise	Solenoid unenergized			Pressure control deactivated
			Solenoid energized			Pressure control activated/ Motor remains at Vgmin
Increase of displacement	Vgmax switch		Solenoid unenergized			n.a.
			Solenoid energized			n.a.
	Control variable					Work port A or B according to pressure side selection
	Control press. supply	Minimum pressure at work port A/B			bar	30

	Damping	Nominal size				60	85	115	140	170	215
		Swiveling speed at 200 bar	Undamped	1/4 Vgmax -> Vgmax	s	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
				Vgmax -> 1/4 Vgmax		n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
			Damped	1/4 Vgmax -> Vgmax		upon request	upon request	upon request	upon request	upon request	upon request
				Vgmax -> 1/4 Vgmax		n.a.	n.a.	n.a.	n.a.	n.a.	n.a.

The pressure controller P4 enables self-regulating control depending on prevailing high-pressure level and default position Vgmin without any external signal. Independently of the basic setting, the pressure controller can be overridden so that the motor swivels to Vgmin - depending on the pressure side. In addition, this pressure controller is basically one-sided damped. The control pressure supply operates with oil from the high-pressure circuit. Accordingly, for reliable functionality under all conditions, a minimum pressure must be ensured. If the working pressure level is too low for the control function, the required pressure can be connected to the port “G” from an outside pressure supply.

Characteristic

This controller provides the feature to define side selection for the pressure signal reaching the pressure controller. This feature is i.e. to be selected, when the application can generate a high pressure during deceleration, like in drive applications or during downhill driving.

Pressure control is to be considered as an override function. If a combination with displacement control is applied, this function, also known as the basic control function, is overridden by pressure control within the corresponding control range.

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Electrical Controller

00

E2

E4

E5

E6

Hydraulic Controller

H2

H4

H5

H6

Pressure Control/
Override

00

P0


P1

P3

P4

P6

P8



In the following you will find the technical specifications of the displacement and pressure controllers for the CMV. These are subdivided into electric and hydraulic displacement controllers as well as pressure controllers or override signals. First get an overview of the basic specs, options and characteristics. Note the short designations such as „E2“ or „P0“. In the section Find Model Code & Availability, you can then check the availability of the corresponding controllers and compile your desired configuration using the short designations as a segment of the model code.

Hydraulic Diagram (Configuration Examples)				
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Displacement Control

Electrical Controller

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E2

E4

E5

E6

Hydraulic Controller

H2

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H5

H6

Pressure Control/Override

00

P0


P1

P3

P4

P6

P8

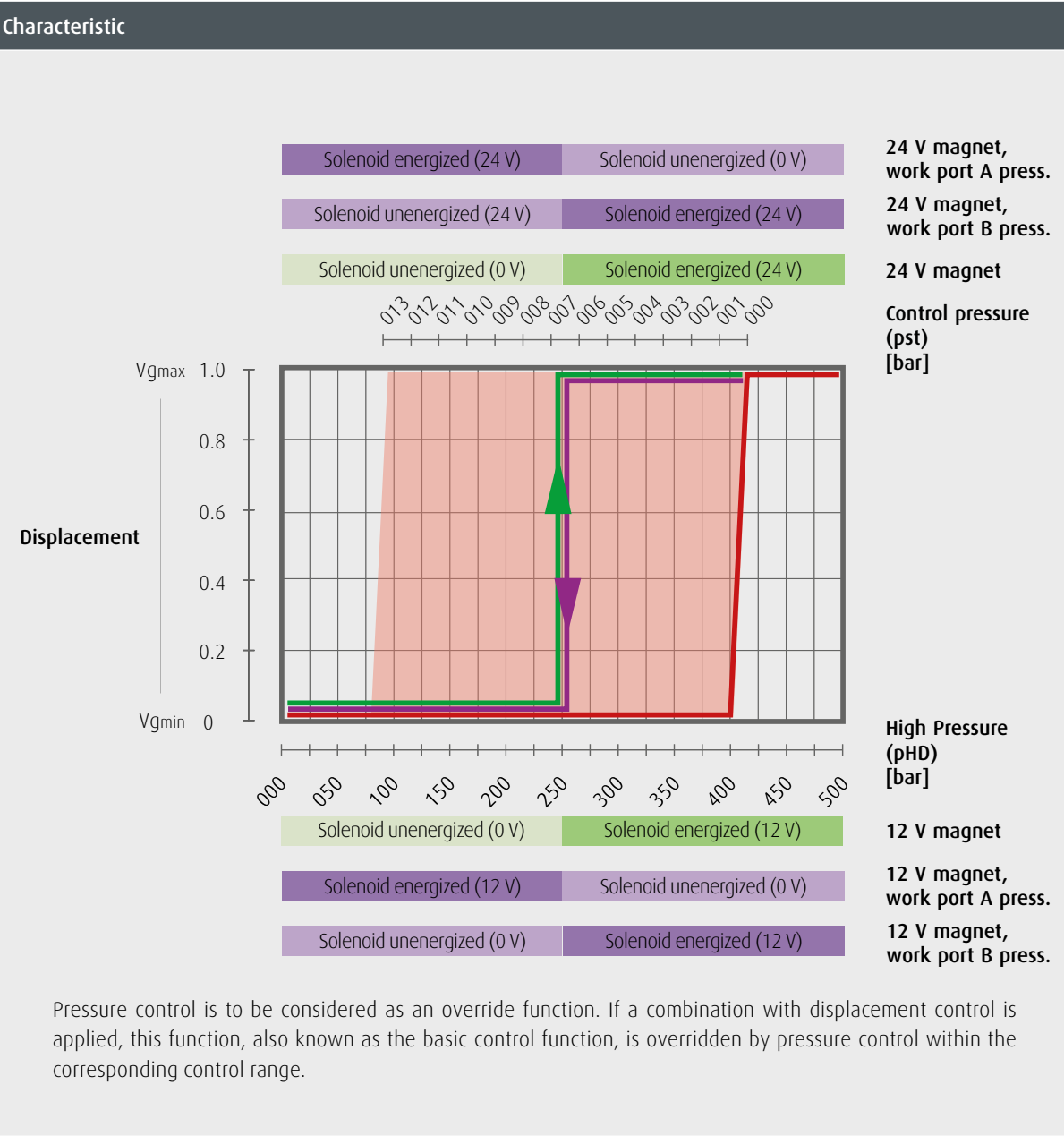


In the following you will find the technical specifications of the displacement and pressure controllers for the CMV. These are subdivided into electric and hydraulic displacement controllers as well as pressure controllers or override signals. First get an overview of the basic specs, options and characteristics. Note the short designations such as „E2“ or „P0“. In the section Find Model Code & Availability, you can then check the availability of the corresponding controllers and compile your desired configuration using the short designations as a segment of the model code.

Basic Specification						
Basic setting	Begin of Control/ Default position	Vgmin/ Minimum Torque/ Maximum Speed	Control pressure (pHD)	Minimum Setting	bar	80
				Maximum Setting		400
	End of Control	Vgmax/ Maximum Torque/ Minimum Speed	Control pressure (pHD)	Minimum Setting		95
				Maximum Setting		415
Deactivating of pressure control	Pressure side selection	Work port A pressurized/ direction of rotation: counterclockwise	Solenoid unenergized			Pressure control activated/ Motor remains at Vgmin
			Solenoid energized			Pressure control deactivated
		Work port B pressurized/ direction of rotation: counterclockwise	Solenoid unenergized			Pressure control deactivated
			Solenoid energized			Pressure control activated/ Motor remains at Vgmin
Increase of displacement	Vgmax switch		Solenoid unenergized			according to basic setting
			Solenoid energized			Vgmax
	Control variable					Work port A or B according to pressure side selection
	Control press. supply	Minimum pressure at work port A/B			bar	30

	Damping	Nominal size				60	85	115	140	170	215
		Swiveling speed at 200 bar	Undamped	1/4 Vgmax -> Vgmax	s	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
				Vgmax -> 1/4 Vgmax		n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
			Damped	1/4 Vgmax -> Vgmax		upon request	upon request	upon request	upon request	upon request	upon request
				Vgmax -> 1/4 Vgmax		n.a.	n.a.	n.a.	n.a.	n.a.	n.a.

The pressure controller P6 enables self-regulating control depending on prevailing high-pressure level and default position Vgmin without any external signal. Independently of the basic setting, the pressure controller can be overridden so that the motor swivels to Vgmax or, depending on the pressure side, to Vgmin. In addition, this pressure controller is basically one-sided damped. The control pressure supply operates with oil from the high-pressure circuit. Accordingly, for reliable functionality under all conditions, a minimum pressure must be ensured. If the working pressure level is too low for the control function, the required pressure can be connected to the port “G” from an outside pressure supply.



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E2

E4

E5

E6

Hydraulic Controller

H2

H4

H5

H6

Pressure Control/Override

00

P0


P1

P3













P4

P6

P8



In the following you will find the technical specifications of the displacement and pressure controllers for the CMV. These are subdivided into electric and hydraulic displacement controllers as well as pressure controllers or override signals. First get an overview of the basic specs, options and characteristics. Note the short designations such as „E2“ or „P0“. In the section Find Model Code & Availability, you can then check the availability of the corresponding controllers and compile your desired configuration using the short designations as a segment of the model code.

Hydraulic Diagram (Configuration Examples)				
Hydraulic diagram upon request			Hydraulic diagram upon request	
   		   		   

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Displacement Control

Electrical Controller

00

E2

E4

E5

E6

Hydraulic Controller

H2

H4

H5

H6

Pressure Control/Override

00

P0


P1

P3

P4

P6

P8



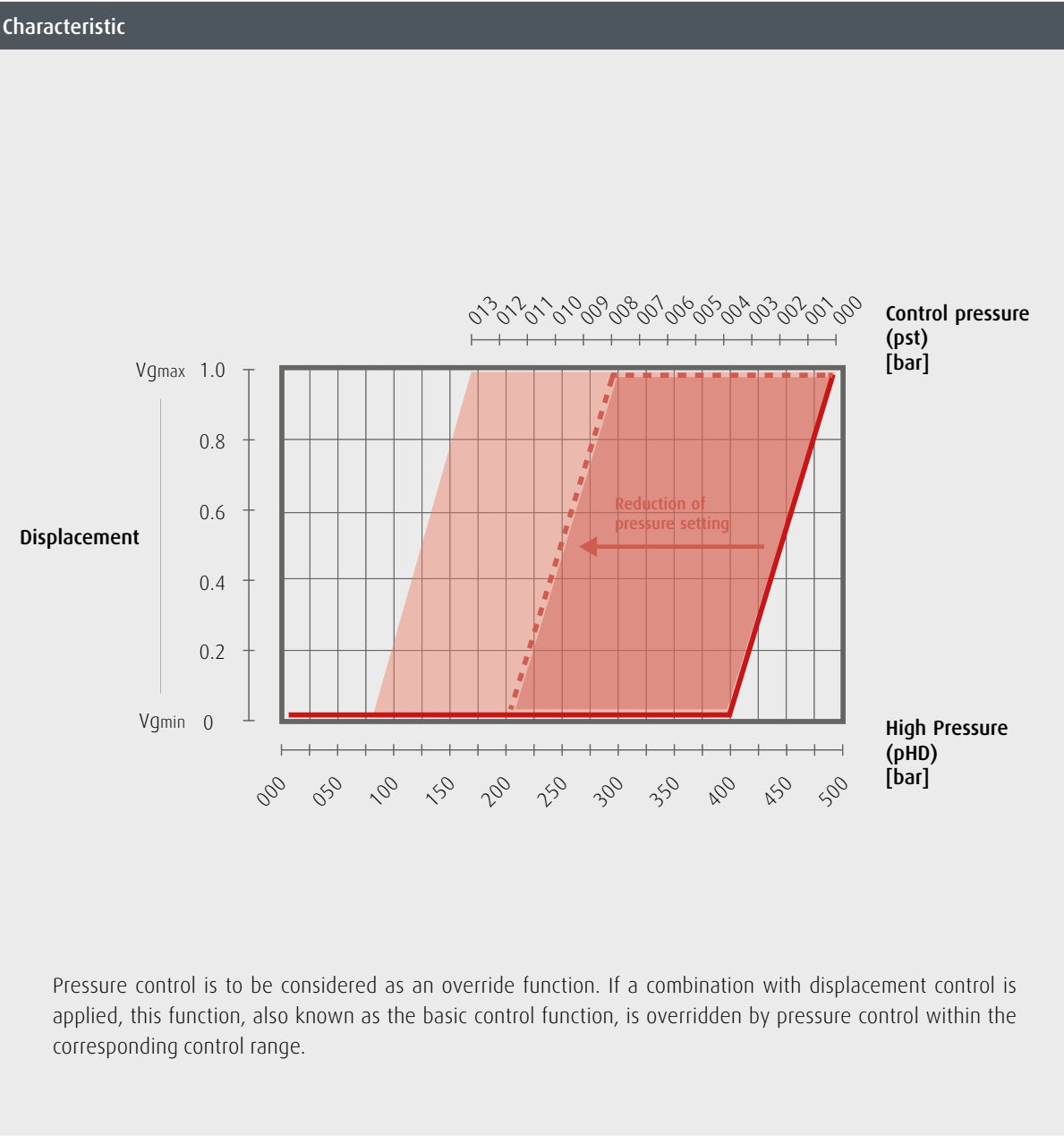
Technical Specification | Controls | Pressure Controller and/or Override Signal | P8

In the following you will find the technical specifications of the displacement and pressure controllers for the CMV. These are subdivided into electric and hydraulic displacement controllers as well as pressure controllers or override signals. First get an overview of the basic specs, options and characteristics. Note the short designations such as „E2“ or „P0“. In the section Find Model Code & Availability, you can then check the availability of the corresponding controllers and compile your desired configuration using the short designations as a segment of the model code.

Basic Specification						
Basic setting	Begin of Control/ Default position	Vgmin/ Minimum Torque/ Maximum Speed	Control pressure (pHD)	Minimum Setting	bar	80
				Maximum Setting		400
	End of Control	Vgmax/ Maximum Torque/ Minimum Speed	Control pressure (pHD)	Minimum Setting		170
				Maximum Setting		490
Reduction of pressure setting	Begin of Control	No reduction of the pressure setting/ Basic function is not affected	Pilot pr. pressure (pst)	bar	0	
			Control pr. pressure (pHD)		according to basic setting	
	End of Control	Max. reduction of the pressure setting/ Basic function is overriden	Pilot pr. pressure (pst)		8	
			Control pr. pressure (pHD)		according to basic setting minus 176	
Increase of displacement	Vgmax switch		Solenoid unenergized		na.	
			Solenoid energized		n.a.	
	Control variable					Work port A or B according to highest pressure value prevailing
	Control press. supply	Minimum pressure at work port A/B			bar	30

Damping	Nominal size				60	85	115	140	170	215
	Swiveling speed at 200 bar	Undamped	1/4 Vgmax -> Vgmax	s	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
			Vgmax -> 1/4 Vgmax		n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
		Damped	1/4 Vgmax -> Vgmax		upon request	upon request	upon request	upon request	upon request	upon request
			Vgmax -> 1/4 Vgmax		n.a.	n.a.	n.a.	n.a.	n.a.	n.a.

The pressure controller P8 enables self-regulating control depending on prevailing high-pressure level and default position Vgmin without any external signal. According to the desired operating condition, the pressure setting can be reduced continuously via an external signal. In addition, this pressure controller is basically one-sided damped. The control pressure supply operates with oil from the high-pressure circuit. Accordingly, for reliable functionality under all conditions, a minimum pressure must be ensured. If the working pressure level is too low for the control function, the required pressue can be connected to the port “G” from an outside pressure supply.



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E2

E4

E5

E6

Hydraulic Controller

H2

H4

H5

H6

Pressure Control/Override

00

P0


P1

P3

P4

P6

P8



In the following you will find the technical specifications of the displacement and pressure controllers for the CMV. These are subdivided into electric and hydraulic displacement controllers as well as pressure controllers or override signals. First get an overview of the basic specs, options and characteristics. Note the short designations such as „E2“ or „P0“. In the section Find Model Code & Availability, you can then check the availability of the corresponding controllers and compile your desired configuration using the short designations as a segment of the model code.

Hydraulic Diagram (Configuration Examples)				
Hydraulic diagram upon request			Hydraulic diagram upon request	
<div></div>	<div></div>	<div></div>	Hydraulic diagram upon request	

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Functions/Options

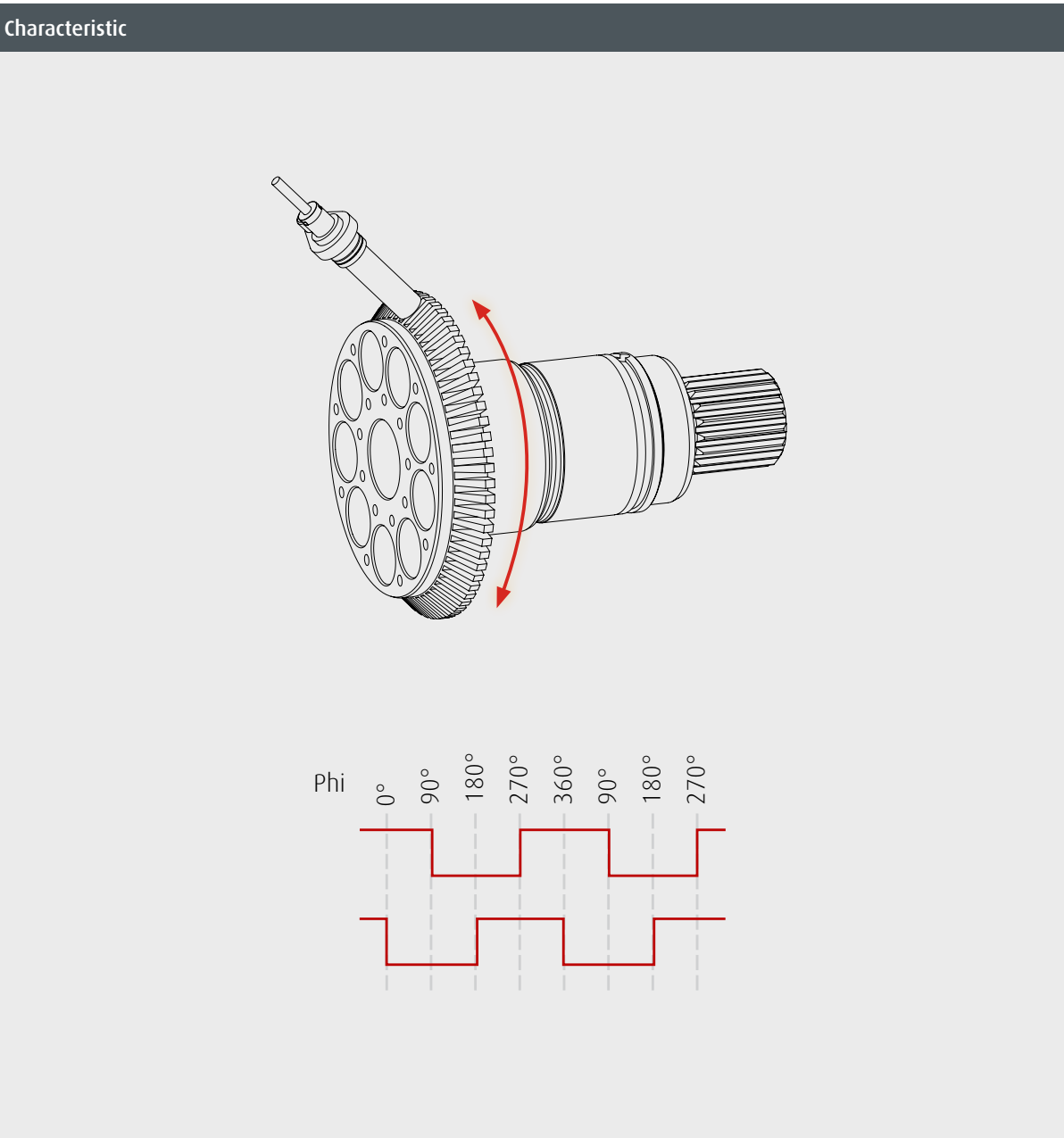
Speed & Direction



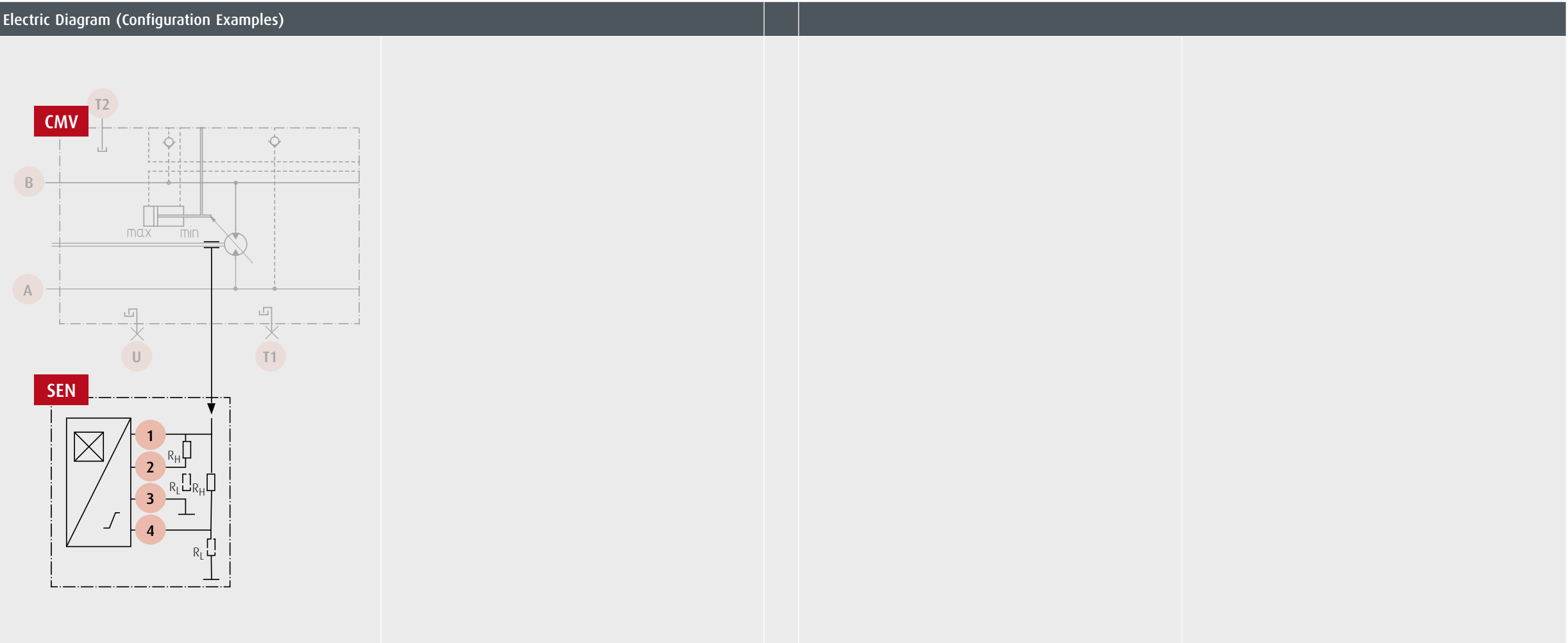
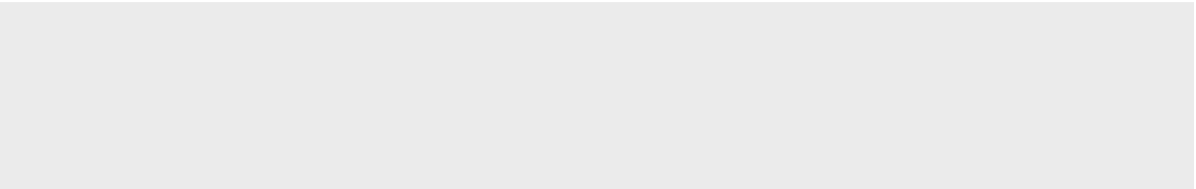
In the following you will find the technical specifications of the sensors for the CMV. First get an overview of the specification. In the section Find Model Code & Availability, you can then check the availability of the sensor and compile your desired configuration using the short designations as a segment of the model code.

Basic Specification										
Sensor type					Hall					
Signal output					NPN					
Voltage				V	7.0...32.0					
Protection class					See connector					
Impulses		Nominal size			60	85	115	140	170	215
		Impulses per rev			54	58	65	70	74	80
					-	-	-	-	-	-
					-	-	-	-	-	-

The sensor for speed and direction of rotation is located in the housing of the CMV and picks up the frequency signal from a increment ring on the drive shaft. It is available as an option. If no speed sensor is desired, but the possibility for subsequent installation exists, the drive shaft is supplied with increments and the installation opening is provided with a blind plate.



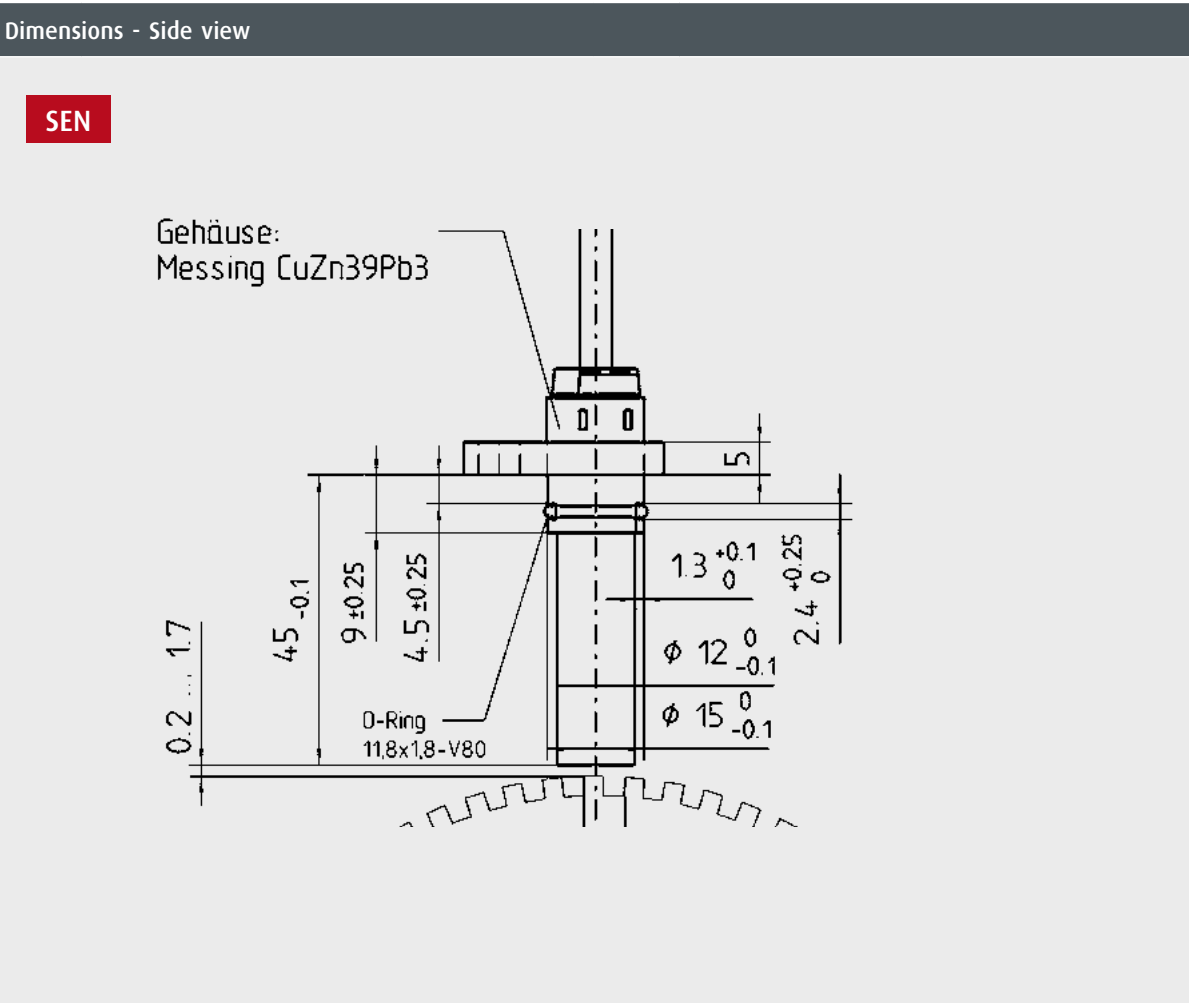
In the following you will find the technical specifications of the sensors for the CMV. First get an overview of the specification. In the section Find Model Code & Availability, you can then check the availability of the sensor and compile your desired configuration using the short designations as a segment of the model code.



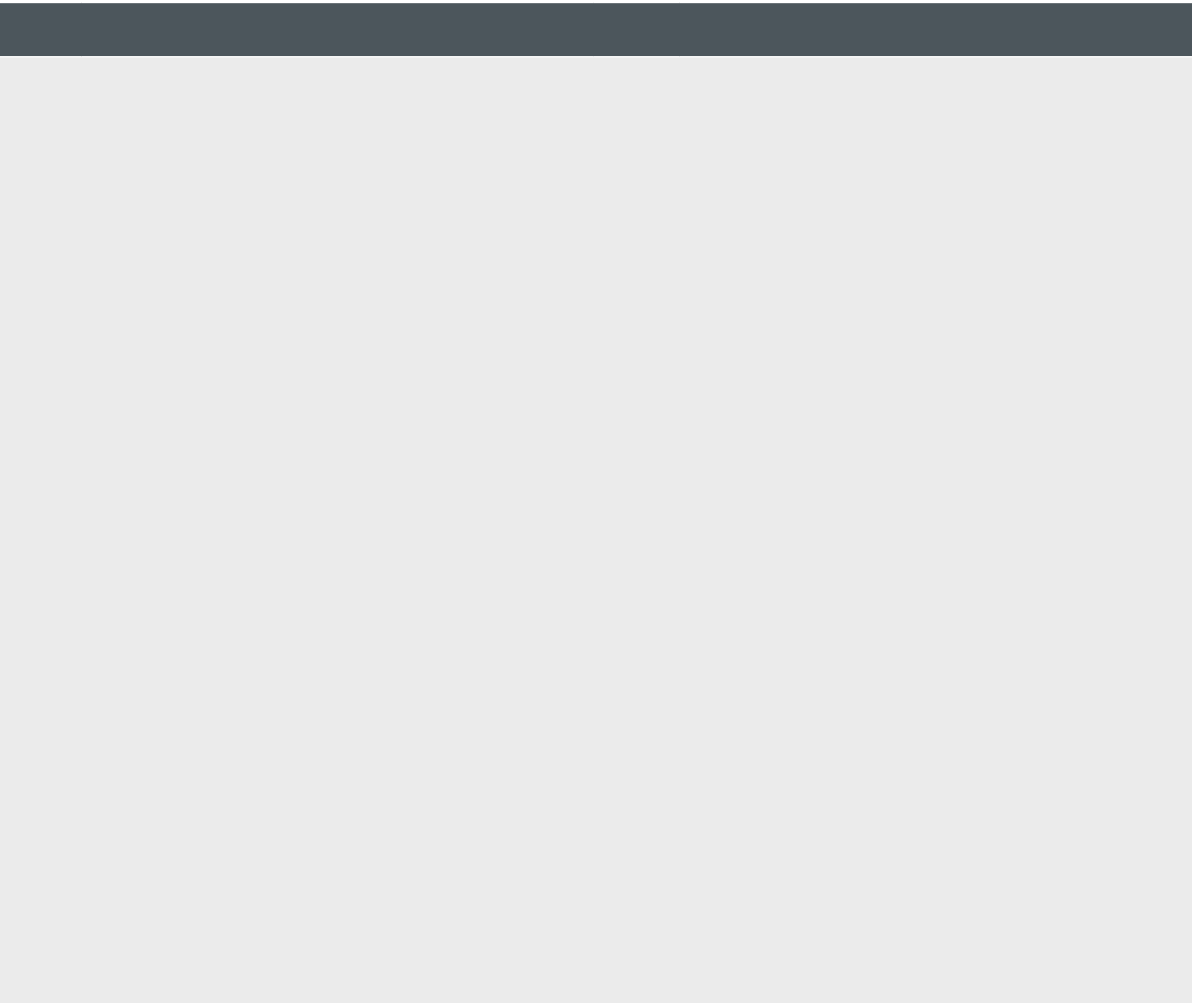
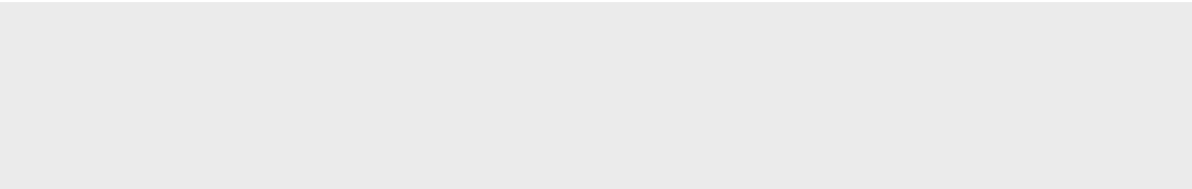
CMV	Basic motor (without Controls/Functions/Options)	1	V _B + (7...32 V)			
SEN	Sensor speed & direction of rotation	2	Channel A			
		3	Ground (GND)			
		4	Channel B			



In the following you will find the technical specifications of the sensors for the CMV. First get an overview of the specification. In the section Find Model Code & Availability, you can then check the availability of the sensor and compile your desired configuration using the short designations as a segment of the model code.



SEN	Sensor speed & direction of rotation	

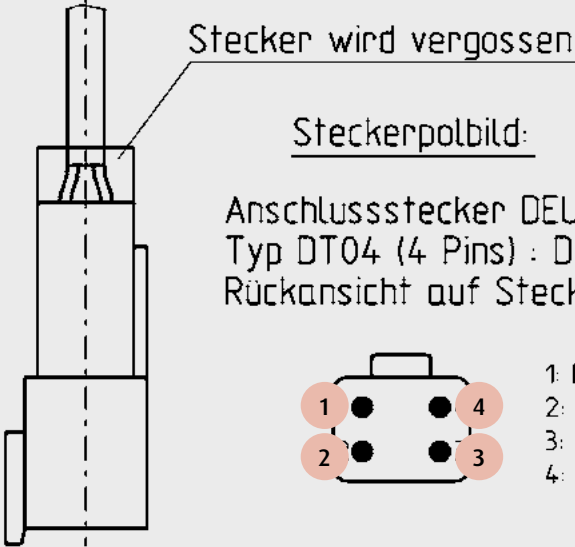




In the following you will find the technical specifications of the connectors for the CMV. First get an overview of the specification. Note the short designations such as „D“ or „A“. In the section Model Code & Availability, you can then check the availability of the sensor and compile your desired configuration using the short designations as a segment of the model code.

Dimensions & Pin layout - Sensors

DEU



Stecker wird vergossen

Steckerpolbild:

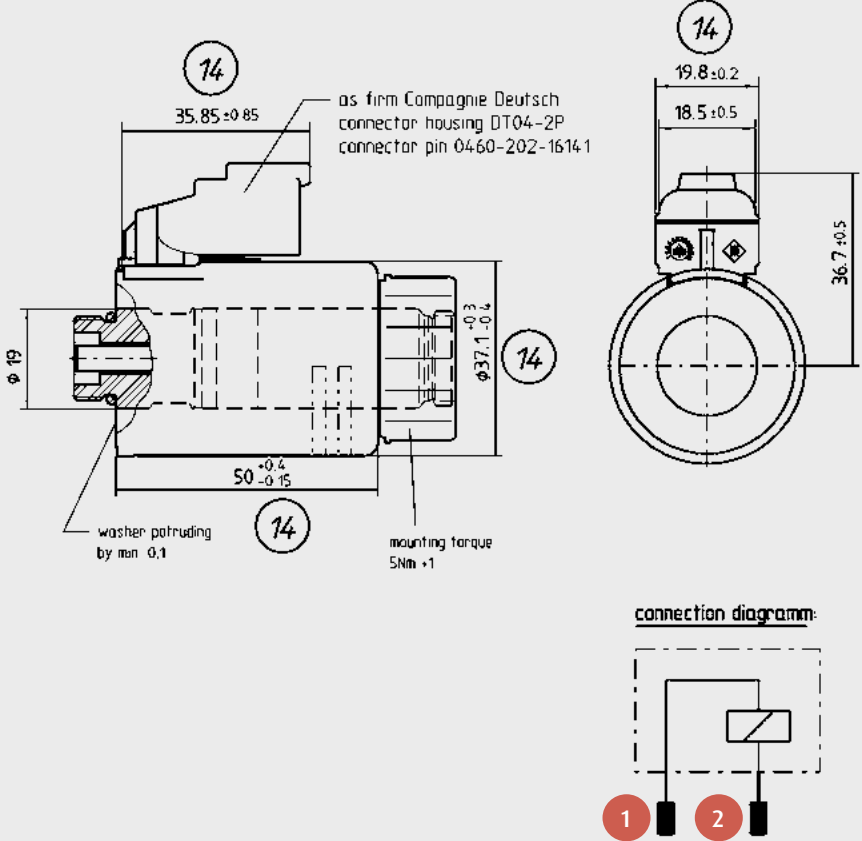
Anschlussstecker DEUTSCH,
Typ DT04 (4 Pins) : DT04-4P
Rückansicht auf Steckerpins:

1	BN
2	BU
3	BK
4	WH

DEU	Deutsch Connector, Enclosure class IP69K, E1 marking available	1	VB + (7...32V)
		2	Channel A
		3	Ground (GND)
		4	Channel B

Dimensions & Pin layout - Solenoids (porportional/switched)

DEU



as firm Compagnie Deutsch
connector housing DT04-2P
connector pin 0460-202-1614.1

washer protruding
by min. 0.1

mounting torque
5Nm +1

connection diagram:

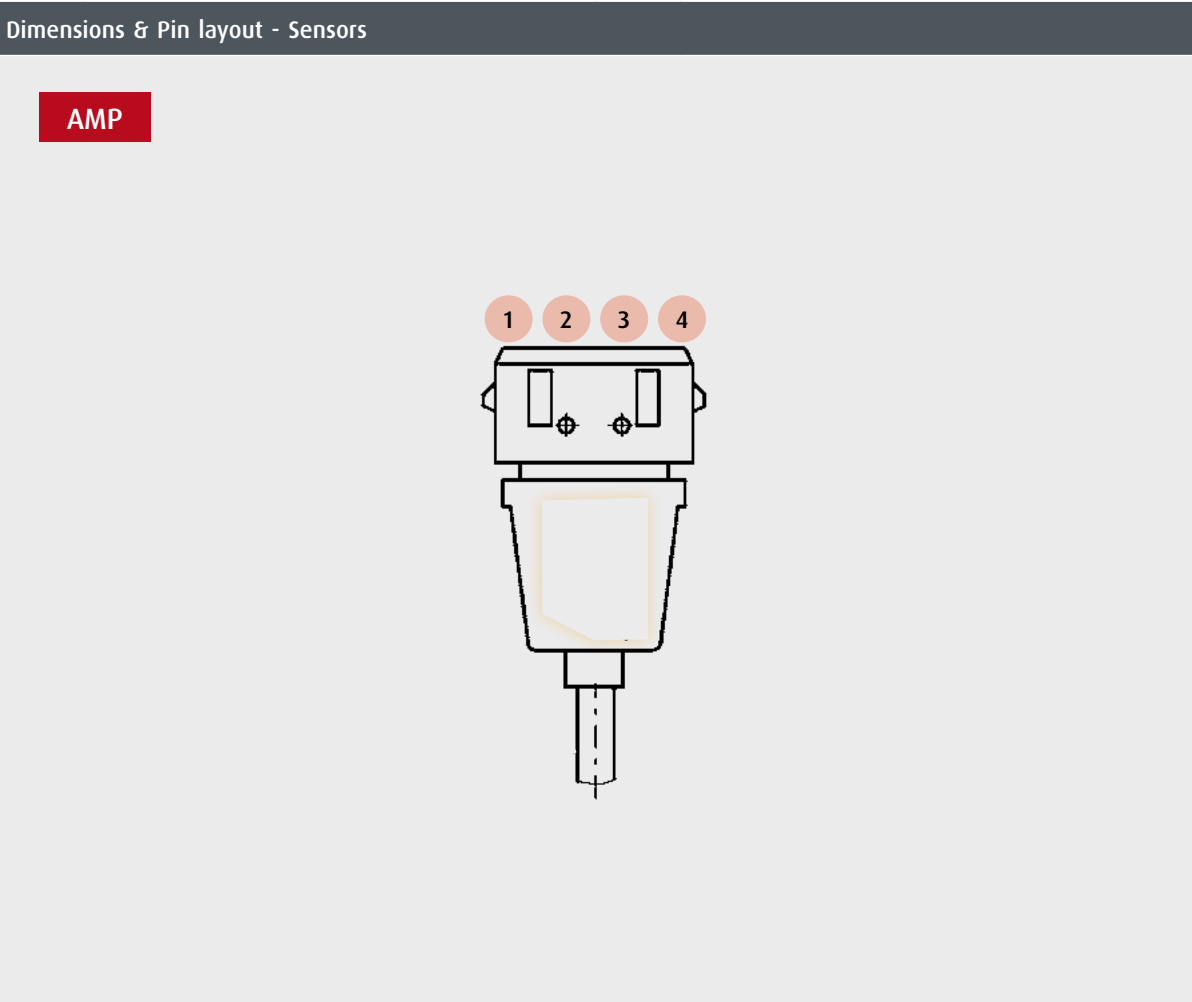
DEU	Deutsch Connector, Enclosure class IP69K, E1 marking available	1	VB + (7...32V) / Switched ground
		2	Switched ground / VB + (7...32V)
		3	



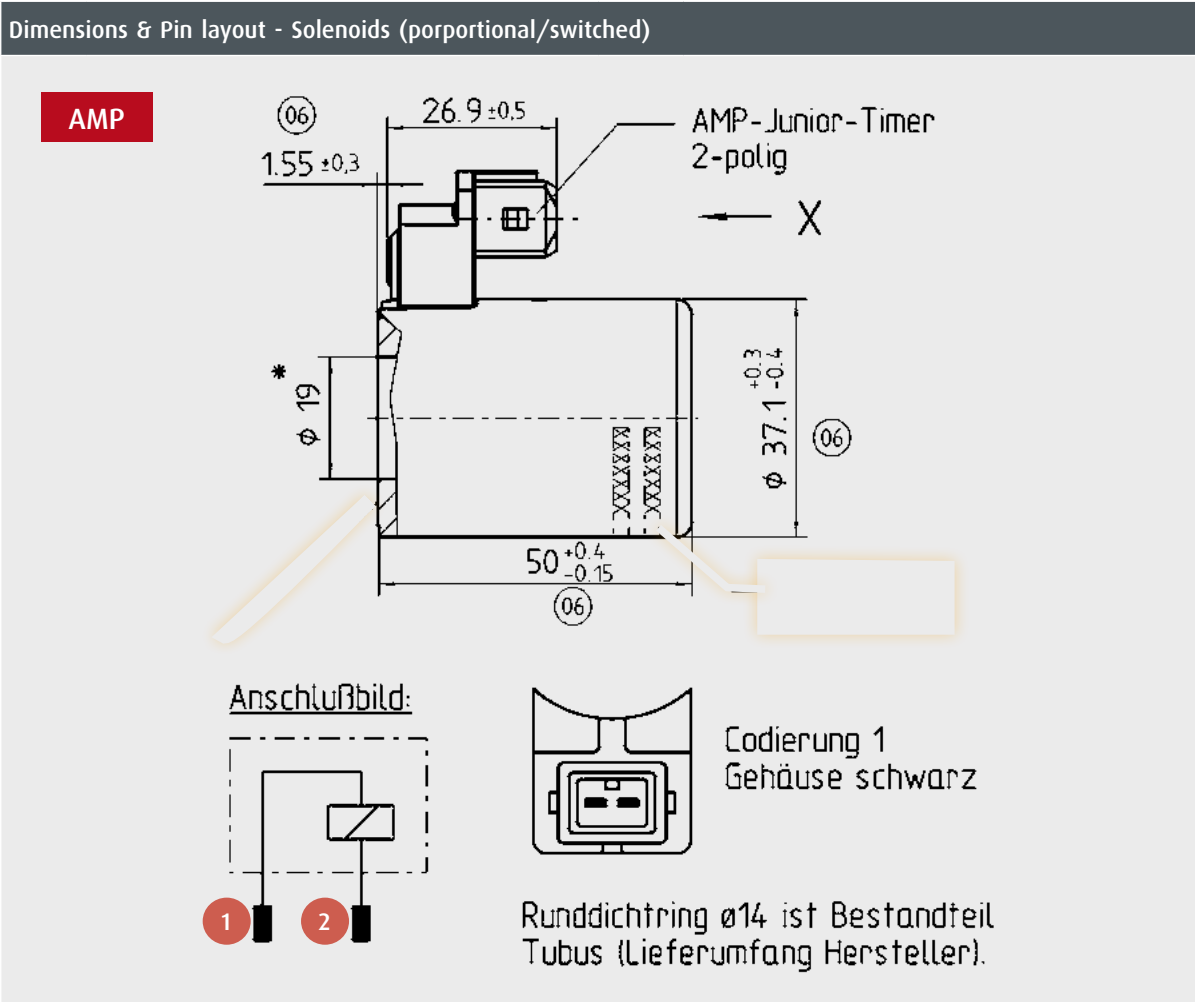
In the following you will find the technical specifications of the connectors for the CMV. First get an overview of the specification. Note the short designations such as „D“ or „A“. In the section Model Code & Availability, you can then check the availability of the sensor and compile your desired configuration using the short designations as a segment of the model code.

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- Functions/Options

- D - Deutsch
- A - AMP Junior Timer



AMP	AMP Junior Timer Connector, Enclosure class IP69K, E1 marking available	1	VB + (7...32V)
		2	Channel A
		3	Ground (GND)
		4	Channel B



AMP	AMP Junior Timer Connector, Enclosure class IP69K, E1 marking available	1	VB + (7...32V) / Switched ground
		2	Switched ground / VB + (7...32V)
		3	



Technical Specification |

Mounting Flanges
Auxiliary Ports

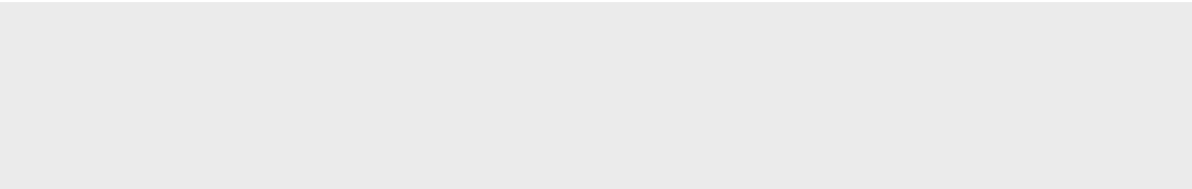
| ISO 3019-1/SAE J744 | **C4/CMV60**

In the following you will find the technical specifications of the mounting flanges and auxiliary ports. They are clustered according to the standard and nominal sizes. First get an overview of the dimensions. Note the short designations such as „C4“ or „E4“. In the section [Model Code & Availability] you can then check the availability of the mounting flange as well as auxiliary ports and compile your desired configuration using the short designations as a segment of the model code.

Dimensions

Dimensions upon request

A	High pressure work port, ISO 6162-2, If pressurised - motor runs clockwise Nom. pres.: 450 bar, max. press.: 500 bar	AX	Pressure equalization port
		BX	
B	High pressure work port, ISO 6162-2, If pressurised - motor runs counter-clockwise Nom. pres.: 450 bar, max. press.: 500 bar	T1	Drain / vent port, ISO 6149
		T2	Drain / vent port, ISO 6149



Dimensions

Dimensions upon request

G	Ext. control pressure supply, ISO 6149		
U	Bearing flush port, ISO 6149		
Y1	Measuring port, ISO 6149		



Technical Specification |

Mounting Flanges
Auxiliary Ports

| ISO 3019-1/SAE J744 |

C4/CMV60

In the following you will find the technical specifications of the mounting flanges and auxiliary ports. They are clustered according to the standard and nominal sizes. First get an overview of the dimensions. Note the short designations such as „C4“ or „E4“. In the section [Model Code & Availability] you can then check the availability of the mounting flange as well as auxiliary ports and compile your desired configuration using the short designations as a segment of the model code.

Dimensions - side view

Dimensions
upon request

Dimensions - front view

Dimensions
upon request

A	High pressure work port, ISO 6162-2, If pressurised - motor runs clockwise Nom. pres.: 450 bar, max. press.: 500 bar	AX	Pressure equalization port
		BX	
B	High pressure work port, ISO 6162-2, If pressurised - motor runs counter-clockwise Nom. pres.: 450 bar, max. press.: 500 bar	T1	Drain / vent port, ISO 6149
		T2	Drain / vent port, ISO 6149

G	Ext. control pressure supply, ISO 6149		
U	Bearing flush port, ISO 6149		
Y1	Measuring port, ISO 6149		



Technical Specification |

Mounting Flanges
Auxiliary Ports

| ISO 3019-1/SAE J744 |

C4/CMV60

In the following you will find the technical specifications of the mounting flanges and auxiliary ports. They are clustered according to the standard and nominal sizes. First get an overview of the dimensions. Note the short designations such as „C4“ or „E4“. In the section [Model Code & Availability] you can then check the availability of the mounting flange as well as auxiliary ports and compile your desired configuration using the short designations as a segment of the model code.

Dimensions
Dimensions upon request

A	High pressure work port, ISO 6162-2, If pressurised - motor runs clockwise Nom. pres.: 450 bar, max. press.: 500 bar	AX	Pressure equalization port
		BX	
B	High pressure work port, ISO 6162-2, If pressurised - motor runs counter-clockwise Nom. pres.: 450 bar, max. press.: 500 bar	T1	Drain / vent port, ISO 6149
		T2	Drain / vent port, ISO 6149

Dimensions
Dimensions upon request

G	Ext. control pressure supply, ISO 6149		
U	Bearing flush port, ISO 6149		
Y1	Measuring port, ISO 6149		

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ISO 3019-1/
SAE J744

C4 / CMV 60

C2 / CMV 85

D4 / CMV 115

D4 / CMV 140

D4 / CMV 170

E4 / CMV 215

ISO 3019-2
metric

M4 / CMV 60

N4 / CMV 85

P4 / CMV 115

R4 / CMV 140

R4 / CMV 170

S4 / CMV 215

Plug-in,
similar to ISO 3019-2

P2 / CMV 60


Y2 / CMV 85

S2 / CMV 115

S2 / CMV 140

S2 / CMV 170

Z4 / CMV 215



Technical Specification |

Mounting Flanges
Auxiliary Ports

| ISO 3019-1/SAE J744 |

C2/CMV85

In the following you will find the technical specifications of the mounting flanges and auxiliary ports. They are clustered according to the standard and nominal sizes. First get an overview of the dimensions. Note the short designations such as „C4“ or „E4“. In the section [Model Code & Availability] you can then check the availability of the mounting flange as well as auxiliary ports and compile your desired configuration using the short designations as a segment of the model code.

Dimensions
Dimensions upon request

A	High pressure work port, ISO 6162-2, SAE 1“ If pressurised - motor runs clockwise Nom. pres.: 450 bar, max. press.: 500 bar	AX	Pressure equalization port
		BX	
B	High pressure work port, ISO 6162-2, SAE 1“ If pressurised - motor runs counter-clockwise Nom. pres.: 450 bar, max. press.: 500 bar	T1	Drain / vent port, ISO 6149, M22x1.5, 15.5 mm deep
		T2	Drain / vent port, ISO 6149, M27x2, 19 mm deep

Dimensions
Dimensions upon request

G	Ext. control pressure supply, ISO 6149, M14x1.5, 11.5 mm deep		
U	Bearing flush port, ISO 6149, M18x1.5, 14.5 mm deep		
Y1	Measuring port, ISO 6149, M14x1.5, 11.5 mm deep		

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ISO 3019-1/
SAE J744

C4 / CMV 60

C2 / CMV 85

D4 / CMV 115

D4 / CMV 140

D4 / CMV 170

E4 / CMV 215

ISO 3019-2
metric

M4 / CMV 60

N4 / CMV 85

P4 / CMV 115

R4 / CMV 140

R4 / CMV 170

S4 / CMV 215

Plug-in,
similar to ISO 3019-2

P2 / CMV 60


Y2 / CMV 85

S2 / CMV 115

S2 / CMV 140

S2 / CMV 170

Z4 / CMV 215



Technical Specification |

Mounting Flanges
Auxiliary Ports

| ISO 3019-1/SAE J744 |

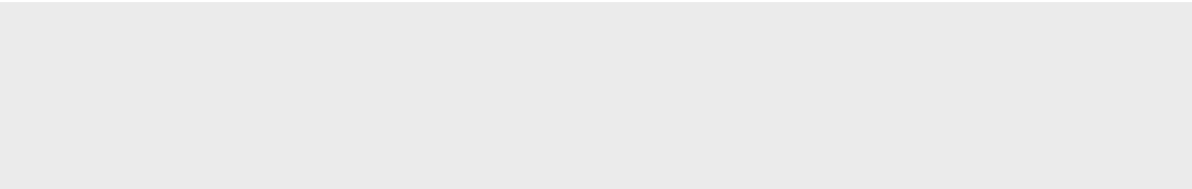
C2/CMV85

In the following you will find the technical specifications of the mounting flanges and auxiliary ports. They are clustered according to the standard and nominal sizes. First get an overview of the dimensions. Note the short designations such as „C4“ or „E4“. In the section [Model Code & Availability] you can then check the availability of the mounting flange as well as auxiliary ports and compile your desired configuration using the short designations as a segment of the model code.

Dimensions

Dimensions upon request

A	High pressure work port, ISO 6162-2, SAE 1“ If pressurised - motor runs clockwise Nom. pres.: 450 bar, max. press.: 500 bar	AX	Pressure equalization port
		BX	
B	High pressure work port, ISO 6162-2, SAE 1“ If pressurised - motor runs counter-clockwise Nom. pres.: 450 bar, max. press.: 500 bar	T1	Drain / vent port, ISO 6149, M22x1.5, 15.5 mm deep
		T2	Drain / vent port, ISO 6149, M27x2, 19 mm deep



Dimensions

Dimensions upon request

G	Ext. control pressure supply, ISO 6149, M14x1.5, 11.5 mm deep		
U	Bearing flush port, ISO 6149, M18x1.5, 14.5 mm deep		
Y1	Measuring port, ISO 6149, M14x1.5, 11.5 mm deep		



Technical Specification |

Mounting Flanges
Auxiliary Ports

| ISO 3019-1/SAE J744 |

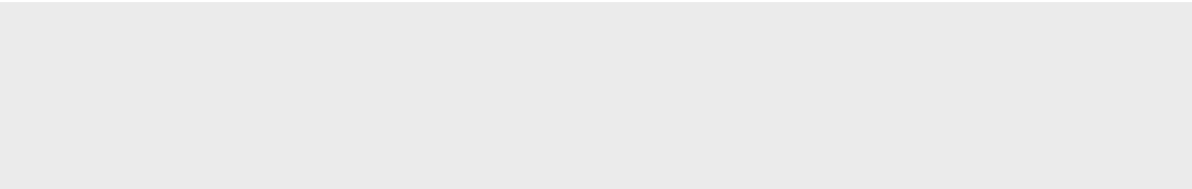
C2/CMV85

In the following you will find the technical specifications of the mounting flanges and auxiliary ports. They are clustered according to the standard and nominal sizes. First get an overview of the dimensions. Note the short designations such as „C4“ or „E4“. In the section [Model Code & Availability] you can then check the availability of the mounting flange as well as auxiliary ports and compile your desired configuration using the short designations as a segment of the model code.

Dimensions

Dimensions upon request

A	High pressure work port, ISO 6162-2, SAE 1“ If pressurised - motor runs clockwise Nom. pres.: 450 bar, max. press.: 500 bar	AX	Pressure equalization port
		BX	
B	High pressure work port, ISO 6162-2, SAE 1“ If pressurised - motor runs counter-clockwise Nom. pres.: 450 bar, max. press.: 500 bar	T1	Drain / vent port, ISO 6149, M22x1.5, 15.5 mm deep
		T2	Drain / vent port, ISO 6149, M27x2, 19 mm deep



Dimensions

Dimensions upon request

G	Ext. control pressure supply, ISO 6149, M14x1.5, 11.5 mm deep		
U	Bearing flush port, ISO 6149, M18x1.5, 14.5 mm deep		
Y1	Measuring port, ISO 6149, M14x1.5, 11.5 mm deep		



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ISO 3019-1/
SAE J744

C4 / CMV 60

C2 / CMV 85

D4 / CMV 115

D4 / CMV 140

D4 / CMV 170

E4 / CMV 215

ISO 3019-2
metric

M4 / CMV 60

N4 / CMV 85

P4 / CMV 115

R4 / CMV 140

R4 / CMV 170

S4 / CMV 215

Plug-in,
similar to ISO 3019-2

P2 / CMV 60


Y2 / CMV 85

S2 / CMV 115

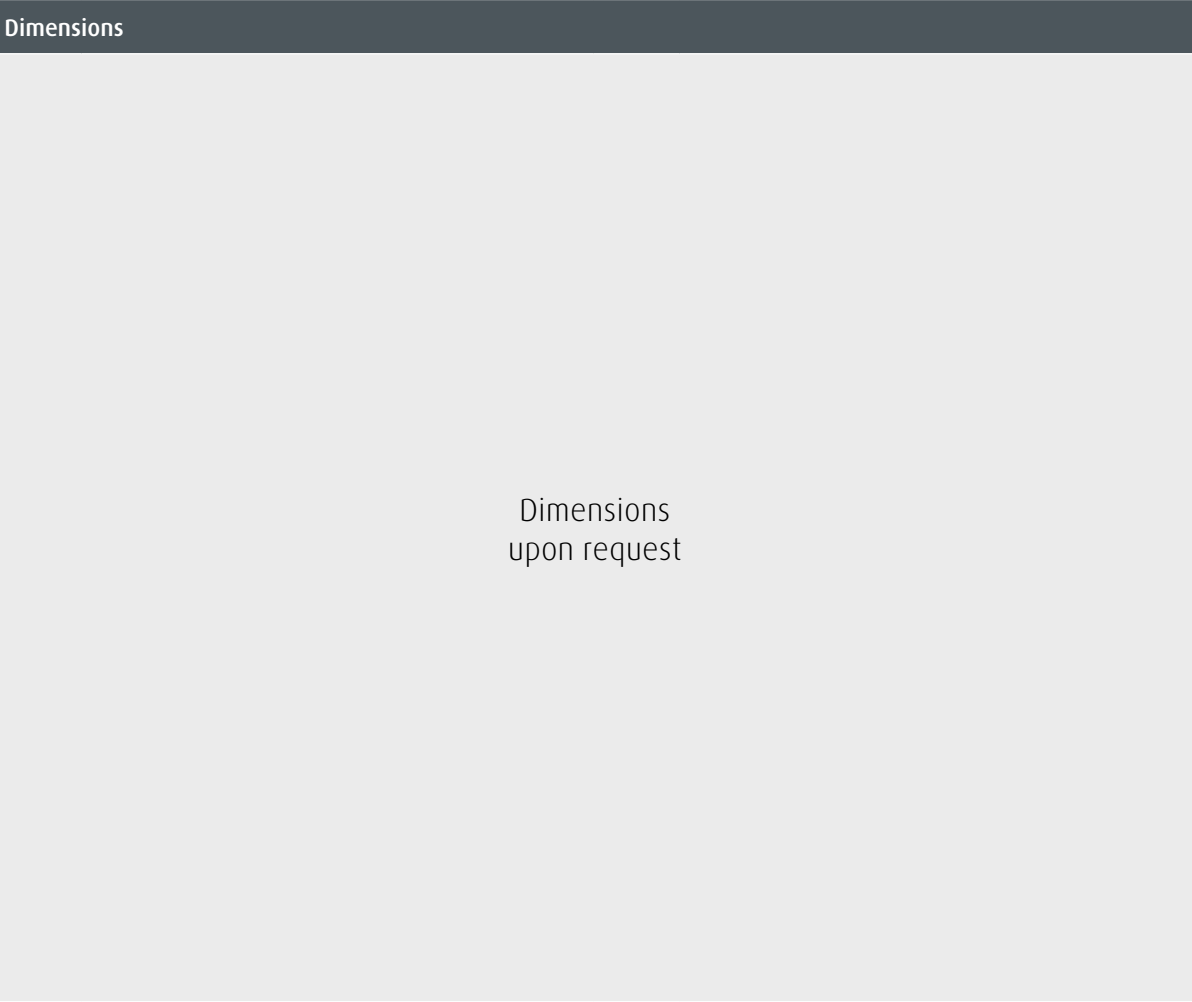
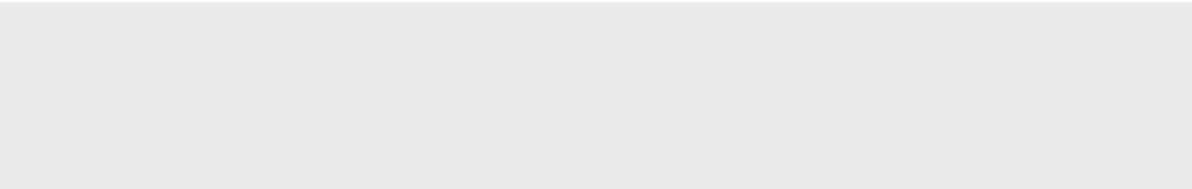
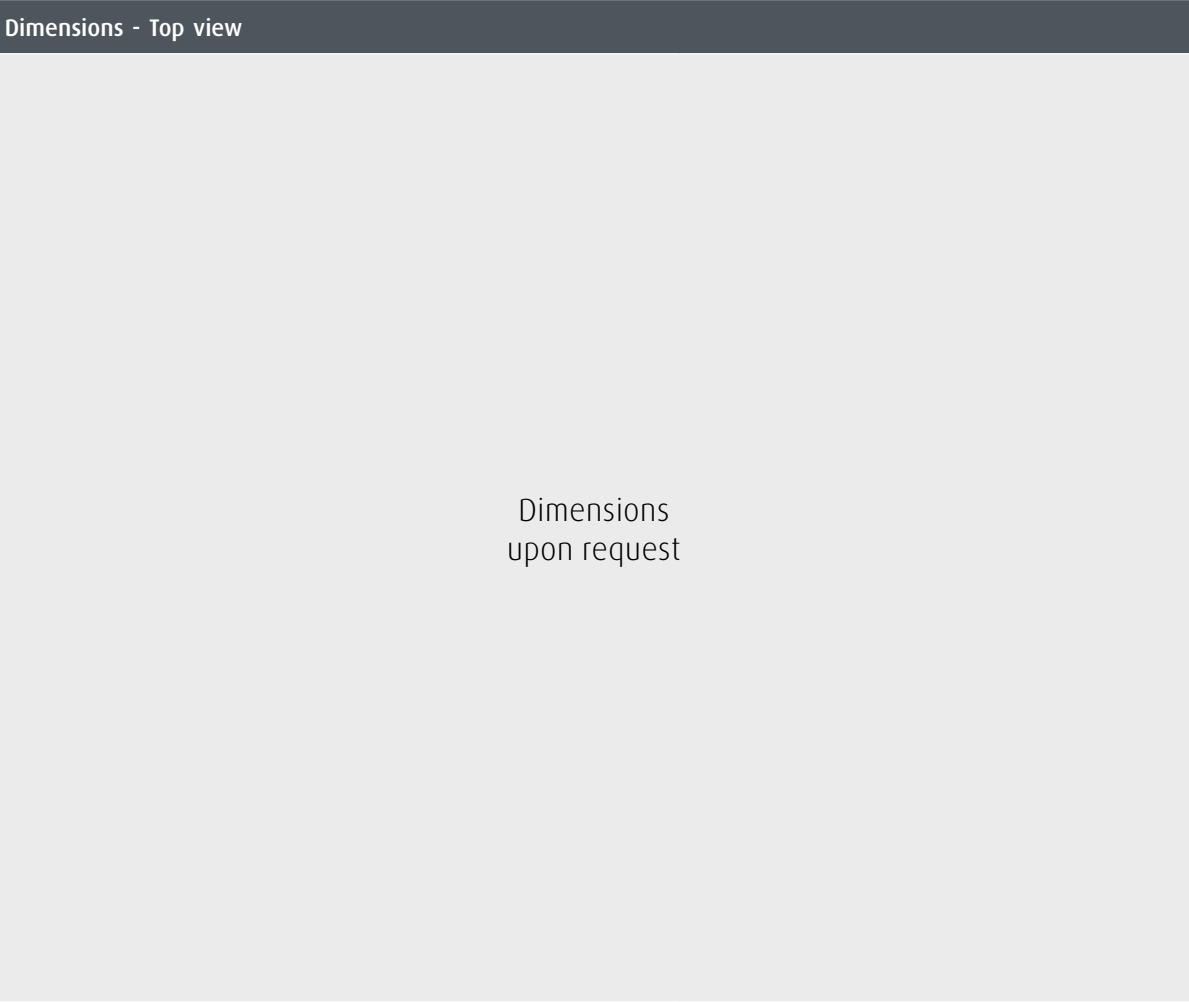
S2 / CMV 140

S2 / CMV 170

Z4 / CMV 215



In the following you will find the technical specifications of the mounting flanges and auxiliary ports. They are clustered according to the standard and nominal sizes. First get an overview of the dimensions. Note the short designations such as „C4“ or „E4“. In the section [Model Code & Availability] you can then check the availability of the mounting flange as well as auxiliary ports and compile your desired configuration using the short designations as a segment of the model code.



A	High pressure work port, ISO 6162-2, SAE 1" If pressurised - motor runs clockwise Nom. pres.: 450 bar, max. press.: 500 bar	AX	Pressure equalization port
		BX	
B	High pressure work port, ISO 6162-2, SAE 1" If pressurised - motor runs counter-clockwise Nom. pres.: 450 bar, max. press.: 500 bar	T1	Drain / vent port, ISO 6149, M27x2, 19 mm deep
		T2	Drain / vent port, ISO 6149, M33x2, 19 mm deep

G	Ext. control pressure supply, ISO 6149, M14x1.5, 11.5 mm deep		
U	Bearing flush port, ISO 6149, M18x1.5, 14.5 mm deep		
Y1	Measuring port, ISO 6149, M14x1.5, 11.5 mm deep		

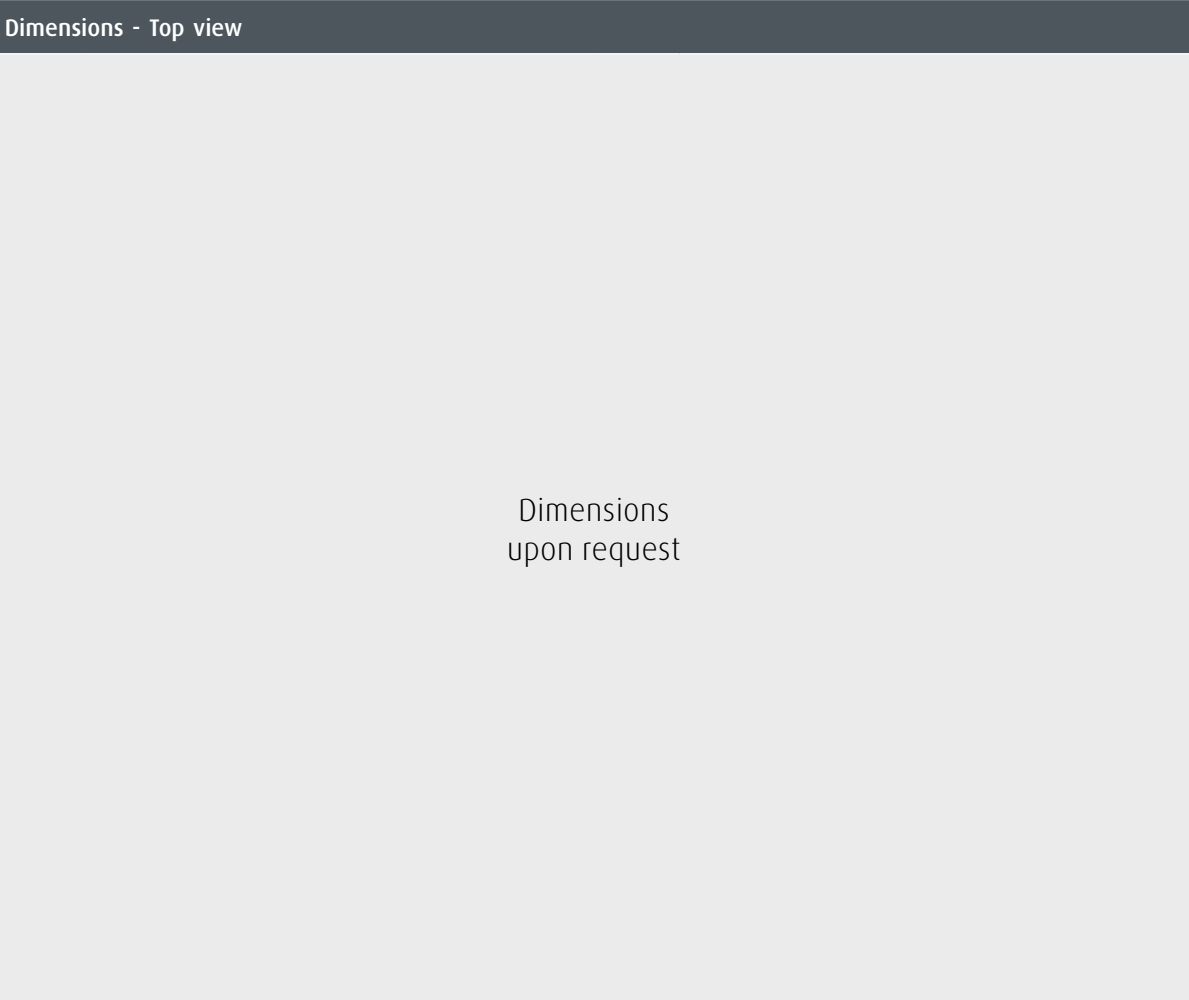
Technical Specification |

Mounting Flanges
Auxiliary Ports

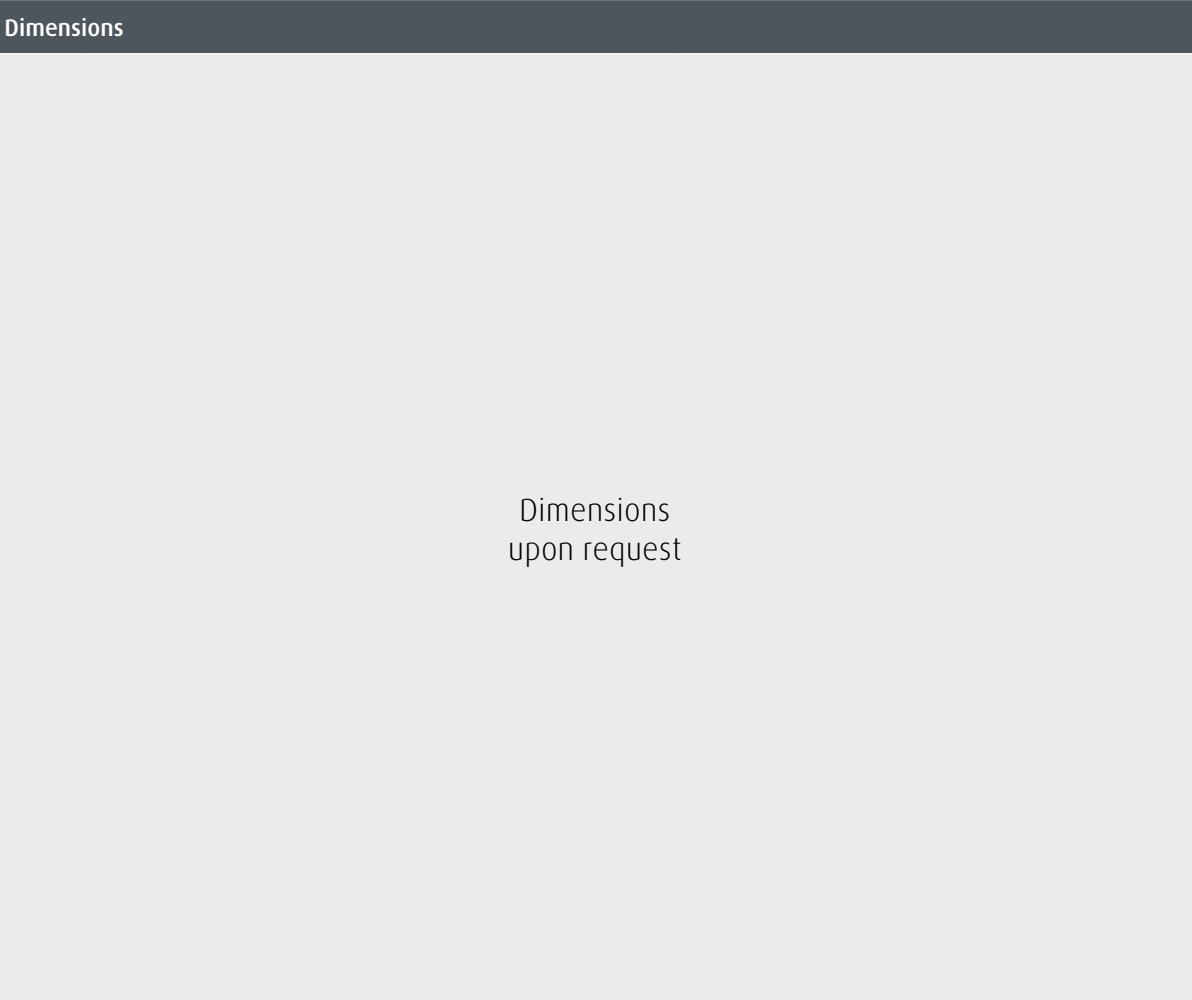
| ISO 3019-1/SAE J744 |

D4/CMV115

In the following you will find the technical specifications of the mounting flanges and auxiliary ports. They are clustered according to the standard and nominal sizes. First get an overview of the dimensions. Note the short designations such as „C4“ or „E4“. In the section [Model Code & Availability] you can then check the availability of the mounting flange as well as auxiliary ports and compile your desired configuration using the short designations as a segment of the model code.



A	High pressure work port, ISO 6162-2, SAE 1“ If pressurised - motor runs clockwise Nom. pres.: 450 bar, max. press.: 500 bar	AX	Pressure equalization port
		BX	
B	High pressure work port, ISO 6162-2, SAE 1“ If pressurised - motor runs counter-clockwise Nom. pres.: 450 bar, max. press.: 500 bar	T1	Drain / vent port, ISO 6149, M27x2, 19 mm deep
		T2	Drain / vent port, ISO 6149, M33x2, 19 mm deep



G	Ext. control pressure supply, ISO 6149, M14x1.5, 11.5 mm deep		
U	Bearing flush port, ISO 6149, M18x1.5, 14.5 mm deep		
Y1	Measuring port, ISO 6149, M14x1.5, 11.5 mm deep		

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Functions/Options

ISO 3019-1/
SAE J744

C4 / CMV 60

C2 / CMV 85

D4 / CMV 115

D4 / CMV 140

D4 / CMV 170

E4 / CMV 215

ISO 3019-2
metric

M4 / CMV 60

N4 / CMV 85

P4 / CMV 115

R4 / CMV 140

R4 / CMV 170

S4 / CMV 215

Plug-in,
similar to ISO 3019-2

P2 / CMV 60


Y2 / CMV 85

S2 / CMV 115

S2 / CMV 140

S2 / CMV 170

Z4 / CMV 215



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Functions/Options

ISO 3019-1/
SAE J744

C4 / CMV 60

C2 / CMV 85

D4 / CMV 115

D4 / CMV 140

D4 / CMV 170

E4 / CMV 215

ISO 3019-2
metric

M4 / CMV 60

N4 / CMV 85

P4 / CMV 115

R4 / CMV 140

R4 / CMV 170

S4 / CMV 215

Plug-in,
similar to ISO 3019-2

P2 / CMV 60


Y2 / CMV 85

S2 / CMV 115

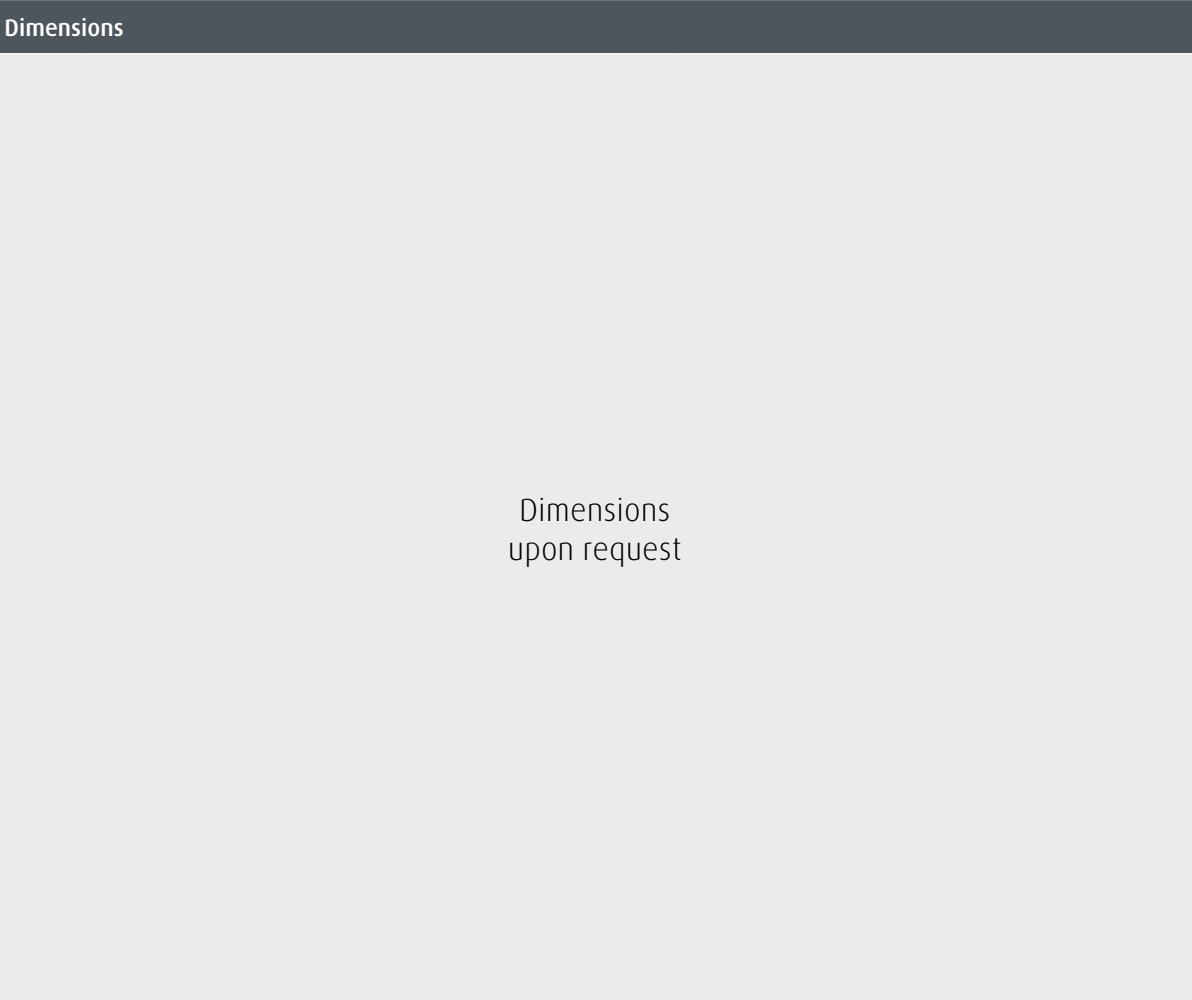
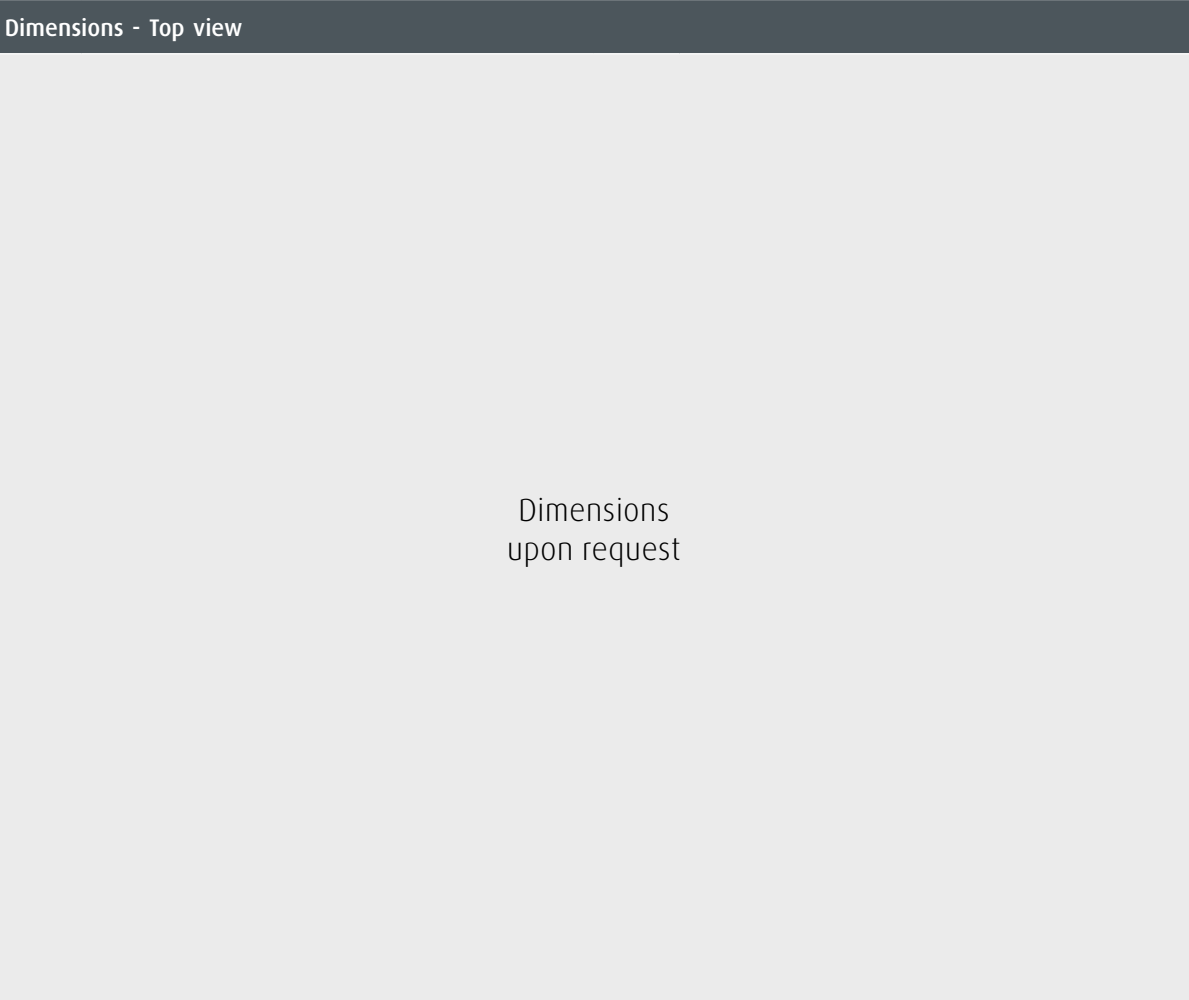
S2 / CMV 140

S2 / CMV 170

Z4 / CMV 215



In the following you will find the technical specifications of the mounting flanges and auxiliary ports. They are clustered according to the standard and nominal sizes. First get an overview of the dimensions. Note the short designations such as „C4“ or „E4“. In the section [Model Code & Availability] you can then check the availability of the mounting flange as well as auxiliary ports and compile your desired configuration using the short designations as a segment of the model code.



A	High pressure work port, ISO 6162-2, SAE 1" If pressurised - motor runs clockwise Nom. pres.: 450 bar, max. press.: 500 bar	AX	Pressure equalization port
		BX	
B	High pressure work port, ISO 6162-2, SAE 1" If pressurised - motor runs counter-clockwise Nom. pres.: 450 bar, max. press.: 500 bar	T1	Drain / vent port, ISO 6149, M27x2, 19 mm deep
		T2	Drain / vent port, ISO 6149, M33x2, 19 mm deep

G	Ext. control pressure supply, ISO 6149, M14x1.5, 11.5 mm deep		
U	Bearing flush port, ISO 6149, M18x1.5, 14.5 mm deep		
Y1	Measuring port, ISO 6149, M14x1.5, 11.5 mm deep		

Technical Specification |

Mounting Flanges
Auxiliary Ports

| ISO 3019-1/SAE J744 |

D4/CMV140

In the following you will find the technical specifications of the mounting flanges and auxiliary ports. They are clustered according to the standard and nominal sizes. First get an overview of the dimensions. Note the short designations such as „C4“ or „E4“. In the section [Model Code & Availability] you can then check the availability of the mounting flange as well as auxiliary ports and compile your desired configuration using the short designations as a segment of the model code.

Dimensions
Dimensions upon request

A	High pressure work port, ISO 6162-2, SAE 1 1/4“ If pressurised - motor runs clockwise Nom. pres.: 450 bar, max. press.: 500 bar	AX	Pressure equalization port
		BX	
B	High pressure work port, ISO 6162-2, SAE 1 1/4“ If pressurised - motor runs counter-clockwise Nom. pres.: 450 bar, max. press.: 500 bar	T1	Drain / vent port, ISO 6149, M27x2, 19 mm deep
		T2	Drain / vent port, ISO 6149, M33x2, 19 mm deep

Dimensions
Dimensions upon request

G	Ext. control pressure supply, ISO 6149, M14x1.5, 11.5 mm deep		
U	Bearing flush port, ISO 6149, M22x1.5, 15.5 mm deep		
Y1	Measuring port, ISO 6149, M14x1.5, 11.5 mm deep		

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Functions/Options

ISO 3019-1/
SAE J744

C4 / CMV 60

C2 / CMV 85

D4 / CMV 115

D4 / CMV 140

D4 / CMV 170

E4 / CMV 215

ISO 3019-2
metric

M4 / CMV 60

N4 / CMV 85

P4 / CMV 115

R4 / CMV 140

R4 / CMV 170

S4 / CMV 215

Plug-in,
similar to ISO 3019-2

P2 / CMV 60


Y2 / CMV 85

S2 / CMV 115

S2 / CMV 140

S2 / CMV 170

Z4 / CMV 215



Technical Specification |

Mounting Flanges
Auxiliary Ports

| ISO 3019-1/SAE J744 |

D4/CMV140

In the following you will find the technical specifications of the mounting flanges and auxiliary ports. They are clustered according to the standard and nominal sizes. First get an overview of the dimensions. Note the short designations such as „C4“ or „E4“. In the section [Model Code & Availability] you can then check the availability of the mounting flange as well as auxiliary ports and compile your desired configuration using the short designations as a segment of the model code.

Dimensions
Dimensions upon request

A	High pressure work port, ISO 6162-2, SAE 1 1/4“ If pressurised - motor runs clockwise Nom. pres.: 450 bar, max. press.: 500 bar	AX	Pressure equalization port
		BX	
B	High pressure work port, ISO 6162-2, SAE 1 1/4“ If pressurised - motor runs counter-clockwise Nom. pres.: 450 bar, max. press.: 500 bar	T1	Drain / vent port, ISO 6149, M27x2, 19 mm deep
		T2	Drain / vent port, ISO 6149, M33x2, 19 mm deep

Dimensions
Dimensions upon request

G	Ext. control pressure supply, ISO 6149, M14x1.5, 11.5 mm deep		
U	Bearing flush port, ISO 6149, M22x1.5, 15.5 mm deep		
Y1	Measuring port, ISO 6149, M14x1.5, 11.5 mm deep		

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Functions/Options

ISO 3019-1/
SAE J744

C4 / CMV 60

C2 / CMV 85

D4 / CMV 115

D4 / CMV 140

D4 / CMV 170

E4 / CMV 215

ISO 3019-2
metric

M4 / CMV 60

N4 / CMV 85

P4 / CMV 115

R4 / CMV 140

R4 / CMV 170

S4 / CMV 215

Plug-in,
similar to ISO 3019-2

P2 / CMV 60


Y2 / CMV 85

S2 / CMV 115

S2 / CMV 140

S2 / CMV 170

Z4 / CMV 215



Technical Specification |

Mounting Flanges
Auxiliary Ports

| ISO 3019-1/SAE J744 |

D4/CMV140

In the following you will find the technical specifications of the mounting flanges and auxiliary ports. They are clustered according to the standard and nominal sizes. First get an overview of the dimensions. Note the short designations such as „C4“ or „E4“. In the section [Model Code & Availability] you can then check the availability of the mounting flange as well as auxiliary ports and compile your desired configuration using the short designations as a segment of the model code.

Dimensions
Dimensions upon request

A	High pressure work port, ISO 6162-2, SAE 1 1/4“ If pressurised - motor runs clockwise Nom. pres.: 450 bar, max. press.: 500 bar	AX	Pressure equalization port
		BX	
B	High pressure work port, ISO 6162-2, SAE 1 1/4“ If pressurised - motor runs counter-clockwise Nom. pres.: 450 bar, max. press.: 500 bar	T1	Drain / vent port, ISO 6149, M27x2, 19 mm deep
		T2	Drain / vent port, ISO 6149, M33x2, 19 mm deep

Dimensions
Dimensions upon request

G	Ext. control pressure supply, ISO 6149, M14x1.5, 11.5 mm deep		
U	Bearing flush port, ISO 6149, M22x1.5, 15.5 mm deep		
Y1	Measuring port, ISO 6149, M14x1.5, 11.5 mm deep		

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Functions/Options

ISO 3019-1/
SAE J744

C4 / CMV 60

C2 / CMV 85

D4 / CMV 115

D4 / CMV 140

D4 / CMV 170

E4 / CMV 215

ISO 3019-2
metric

M4 / CMV 60

N4 / CMV 85

P4 / CMV 115

R4 / CMV 140

R4 / CMV 170

S4 / CMV 215

Plug-in,
similar to ISO 3019-2

P2 / CMV 60


Y2 / CMV 85

S2 / CMV 115

S2 / CMV 140

S2 / CMV 170

Z4 / CMV 215



Technical Specification |

Mounting Flanges
Auxiliary Ports

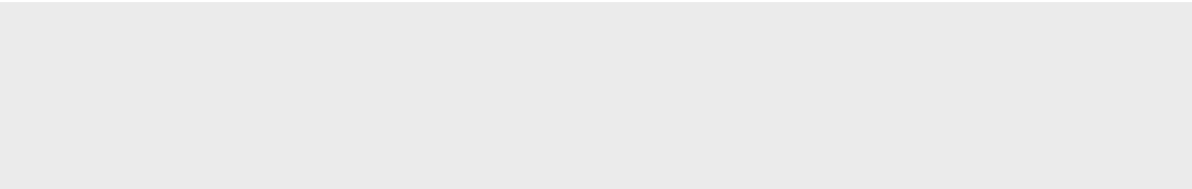
| ISO 3019-1/SAE J744 |

D4/CMV170

In the following you will find the technical specifications of the mounting flanges and auxiliary ports. They are clustered according to the standard and nominal sizes. First get an overview of the dimensions. Note the short designations such as „C4“ or „E4“. In the section [Model Code & Availability] you can then check the availability of the mounting flange as well as auxiliary ports and compile your desired configuration using the short designations as a segment of the model code.

Dimensions
Dimensions upon request

A	High pressure work port, ISO 6162-2, SAE 1 1/4“ If pressurised - motor runs clockwise Nom. pres.: 450 bar, max. press.: 500 bar	AX	Pressure equalization port, ISO 6149, M14x1.5, 11.5 mm deep
		BX	
B	High pressure work port, ISO 6162-2, SAE 1 1/4“ If pressurised - motor runs counter-clockwise Nom. pres.: 450 bar, max. press.: 500 bar	T1	Drain / vent port, ISO 6149, M27x2, 19 mm deep
		T2	Drain / vent port, ISO 6149, M33x2, 19 mm deep



Dimensions
Dimensions upon request

G	Ext. control pressure supply, ISO 6149, M14x1.5, 11.5 mm deep		
U	Bearing flush port, ISO 6149, M22x1.5, 15.5 mm deep		
Y1	Measuring port, ISO 6149, M14x1.5, 11.5 mm deep		

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Hydraulic Interfaces

Work Ports

Auxiliary Ports

Functions/Options

ISO 3019-1/
SAE J744

C4 / CMV 60

C2 / CMV 85

D4 / CMV 115

D4 / CMV 140

D4 / CMV 170

E4 / CMV 215

ISO 3019-2
metric

M4 / CMV 60

N4 / CMV 85

P4 / CMV 115

R4 / CMV 140

R4 / CMV 170

S4 / CMV 215

Plug-in,
similar to ISO 3019-2

P2 / CMV 60


Y2 / CMV 85

S2 / CMV 115

S2 / CMV 140

S2 / CMV 170

Z4 / CMV 215



Technical Specification |

Mounting Flanges
Auxiliary Ports

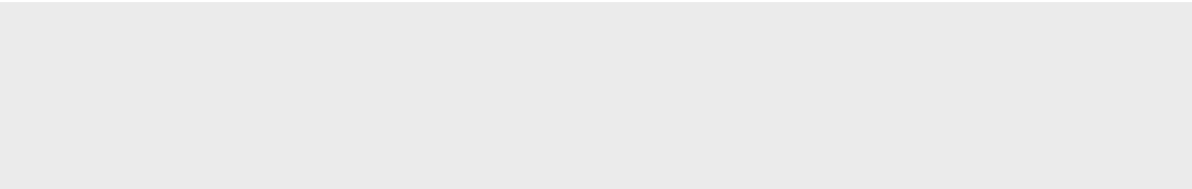
| ISO 3019-1/SAE J744 |

D4/CMV170

In the following you will find the technical specifications of the mounting flanges and auxiliary ports. They are clustered according to the standard and nominal sizes. First get an overview of the dimensions. Note the short designations such as „C4“ or „E4“. In the section [Model Code & Availability] you can then check the availability of the mounting flange as well as auxiliary ports and compile your desired configuration using the short designations as a segment of the model code.

Dimensions
Dimensions upon request

A	High pressure work port, ISO 6162-2, SAE 1 1/4“ If pressurised - motor runs clockwise Nom. pres.: 450 bar, max. press.: 500 bar	AX	Pressure equalization port, ISO 6149, M14x1.5, 11.5 mm deep
		BX	
B	High pressure work port, ISO 6162-2, SAE 1 1/4“ If pressurised - motor runs counter-clockwise Nom. pres.: 450 bar, max. press.: 500 bar	T1	Drain / vent port, ISO 6149, M27x2, 19 mm deep
		T2	Drain / vent port, ISO 6149, M33x2, 19 mm deep



Dimensions
Dimensions upon request

G	Ext. control pressure supply, ISO 6149, M14x1.5, 11.5 mm deep		
U	Bearing flush port, ISO 6149, M22x1.5, 15.5 mm deep		
Y1	Measuring port, ISO 6149, M14x1.5, 11.5 mm deep		

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Work Ports

Auxiliary Ports

Functions/Options

ISO 3019-1/
SAE J744

C4 / CMV 60

C2 / CMV 85

D4 / CMV 115

D4 / CMV 140

D4 / CMV 170

E4 / CMV 215

ISO 3019-2
metric

M4 / CMV 60

N4 / CMV 85

P4 / CMV 115

R4 / CMV 140

R4 / CMV 170

S4 / CMV 215

Plug-in,
similar to ISO 3019-2

P2 / CMV 60


Y2 / CMV 85

S2 / CMV 115

S2 / CMV 140

S2 / CMV 170

Z4 / CMV 215



Technical Specification |

Mounting Flanges
Auxiliary Ports

| ISO 3019-1/SAE J744 |

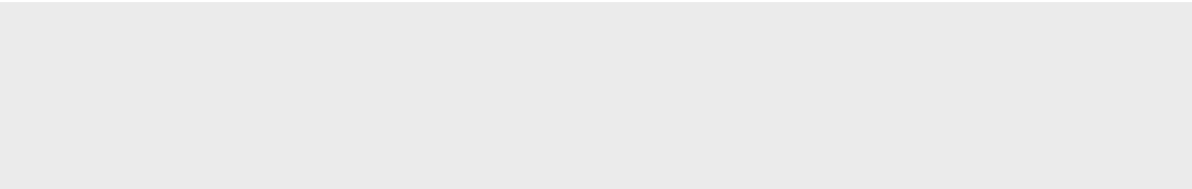
D4/CMV170

In the following you will find the technical specifications of the mounting flanges and auxiliary ports. They are clustered according to the standard and nominal sizes. First get an overview of the dimensions. Note the short designations such as „C4“ or „E4“. In the section [Model Code & Availability] you can then check the availability of the mounting flange as well as auxiliary ports and compile your desired configuration using the short designations as a segment of the model code.

Dimensions

Dimensions upon request

A	High pressure work port, ISO 6162-2, SAE 1 1/4" If pressurised - motor runs clockwise Nom. pres.: 450 bar, max. press.: 500 bar	AX	Pressure equalization port, ISO 6149, M14x1.5, 11.5 mm deep
		BX	
B	High pressure work port, ISO 6162-2, SAE 1 1/4" If pressurised - motor runs counter-clockwise Nom. pres.: 450 bar, max. press.: 500 bar	T1	Drain / vent port, ISO 6149, M27x2, 19 mm deep
		T2	Drain / vent port, ISO 6149, M33x2, 19 mm deep



Dimensions

Dimensions upon request

G	Ext. control pressure supply, ISO 6149, M14x1.5, 11.5 mm deep		
U	Bearing flush port, ISO 6149, M22x1.5, 15.5 mm deep		
Y1	Measuring port, ISO 6149, M14x1.5, 11.5 mm deep		



Technical Specification |

Mounting Flanges
Auxiliary Ports

| ISO 3019-1/SAE J744 | **E4/CMV215**

In the following you will find the technical specifications of the mounting flanges and auxiliary ports. They are clustered according to the standard and nominal sizes. First get an overview of the dimensions. Note the short designations such as „C4“ or „E4“. In the section [Model Code & Availability] you can then check the availability of the mounting flange as well as auxiliary ports and compile your desired configuration using the short designations as a segment of the model code.

Dimensions
Dimensions upon request

A	High pressure work port, ISO 6162-2, SAE 1 1/4" If pressurised - motor runs clockwise Nom. pres.: 450 bar, max. press.: 500 bar	AX	Pressure equalization port, ISO 6149, M22x1.5, 15.5 mm deep
		BX	
B	High pressure work port, ISO 6162-2, SAE 1 1/4" If pressurised - motor runs counter-clockwise Nom. pres.: 450 bar, max. press.: 500 bar	T1	Drain / vent port, ISO 6149, M33x2, 19 mm deep
		T2	Drain / vent port, ISO 6149, M42x2, 19.5 mm deep

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Dimensions
Dimensions upon request

G	Ext. control pressure supply, ISO 6149, M14x1.5, 11.5 mm deep		
U	Bearing flush port, ISO 6149, M22x1.5, 15.5 mm deep		
Y1	Measuring port, ISO 6149, M14x1.5, 11.5 mm deep		



Technical Specification |

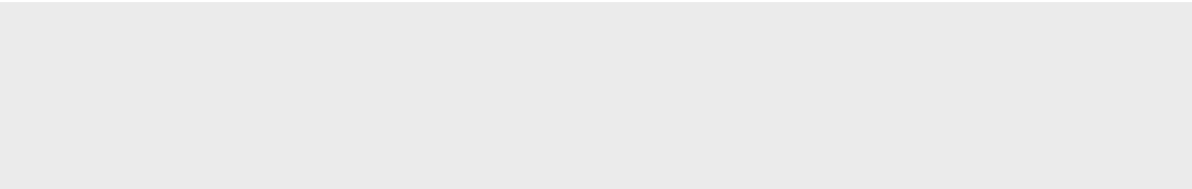
Mounting Flanges
Auxiliary Ports

| ISO 3019-1/SAE J744 | **E4/CMV215**

In the following you will find the technical specifications of the mounting flanges and auxiliary ports. They are clustered according to the standard and nominal sizes. First get an overview of the dimensions. Note the short designations such as „C4“ or „E4“. In the section [Model Code & Availability] you can then check the availability of the mounting flange as well as auxiliary ports and compile your desired configuration using the short designations as a segment of the model code.

Dimensions
Dimensions upon request

A	High pressure work port, ISO 6162-2, SAE 1 1/4" If pressurised - motor runs clockwise Nom. pres.: 450 bar, max. press.: 500 bar	AX	Pressure equalization port, ISO 6149, M22x1.5, 15.5 mm deep
		BX	
B	High pressure work port, ISO 6162-2, SAE 1 1/4" If pressurised - motor runs counter-clockwise Nom. pres.: 450 bar, max. press.: 500 bar	T1	Drain / vent port, ISO 6149, M33x2, 19 mm deep
		T2	Drain / vent port, ISO 6149, M42x2, 19.5 mm deep



Dimensions
Dimensions upon request

G	Ext. control pressure supply, ISO 6149, M14x1.5, 11.5 mm deep		
U	Bearing flush port, ISO 6149, M22x1.5, 15.5 mm deep		
Y1	Measuring port, ISO 6149, M14x1.5, 11.5 mm deep		



Technical Specification |

Mounting Flanges
Auxiliary Ports

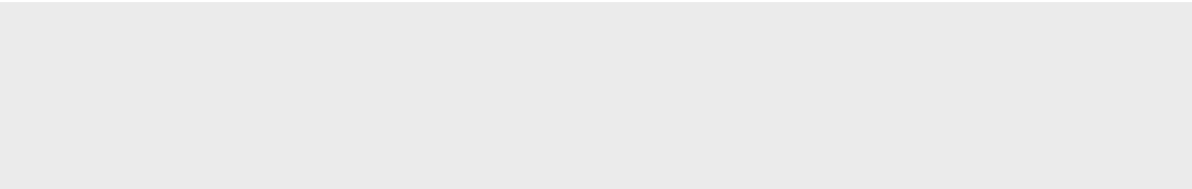
| ISO 3019-1/SAE J744 | **E4/CMV215**

In the following you will find the technical specifications of the mounting flanges and auxiliary ports. They are clustered according to the standard and nominal sizes. First get an overview of the dimensions. Note the short designations such as „C4“ or „E4“. In the section [Model Code & Availability] you can then check the availability of the mounting flange as well as auxiliary ports and compile your desired configuration using the short designations as a segment of the model code.

Dimensions

Dimensions upon request

A	High pressure work port, ISO 6162-2, SAE 1 1/4" If pressurised - motor runs clockwise Nom. pres.: 450 bar, max. press.: 500 bar	AX	Pressure equalization port, ISO 6149, M22x1.5, 15.5 mm deep
		BX	
B	High pressure work port, ISO 6162-2, SAE 1 1/4" If pressurised - motor runs counter-clockwise Nom. pres.: 450 bar, max. press.: 500 bar	T1	Drain / vent port, ISO 6149, M33x2, 19 mm deep
		T2	Drain / vent port, ISO 6149, M42x2, 19.5 mm deep



Dimensions

Dimensions upon request

G	Ext. control pressure supply, ISO 6149, M14x1.5, 11.5 mm deep		
U	Bearing flush port, ISO 6149, M22x1.5, 15.5 mm deep		
Y1	Measuring port, ISO 6149, M14x1.5, 11.5 mm deep		



Technical Specification |

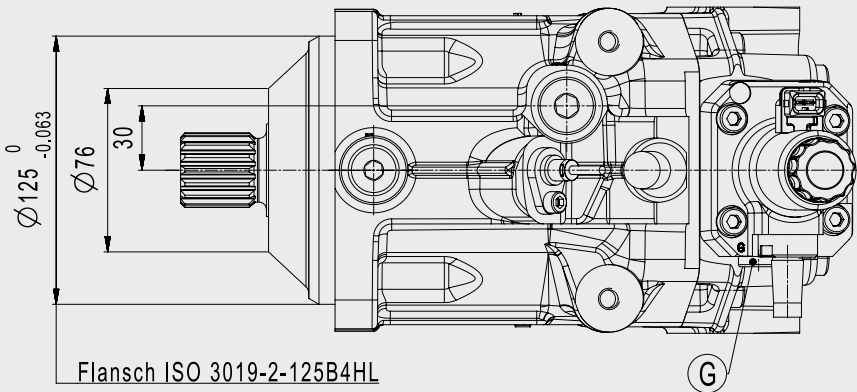
Mounting Flanges
Auxiliary Ports

| ISO 3019-2 metric |

M4/CMV60

In the following you will find the technical specifications of the mounting flanges and auxiliary ports. They are clustered according to the standard and nominal sizes. First get an overview of the dimensions. Note the short designations such as „C4“ or „E4“. In the section [Model Code & Availability] you can then check the availability of the mounting flange as well as auxiliary ports and compile your desired configuration using the short designations as a segment of the model code.

Dimensions - Top view



A	High pressure work port, ISO 6162-2, If pressurised - motor runs clockwise Nom. pres.: 450 bar, max. press.: 500 bar	AX	Pressure equalization port
		BX	
B	High pressure work port, ISO 6162-2, If pressurised - motor runs counter-clockwise Nom. pres.: 450 bar, max. press.: 500 bar	T1	Drain / vent port, ISO 6149
		T2	Drain / vent port, ISO 6149

G	Ext. control pressure supply, ISO 6149		
U	Bearing flush port, ISO 6149		
Y1	Measuring port, ISO 6149		

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Auxiliary Ports

Functions/Options

ISO 3019-1/
SAE J744

C4 / CMV 60

C2 / CMV 85

D4 / CMV 115

D4 / CMV 140

D4 / CMV 170

E4 / CMV 215

ISO 3019-2
metric

M4 / CMV 60

N4 / CMV 85

P4 / CMV 115

R4 / CMV 140

R4 / CMV 170

S4 / CMV 215

Plug-in,
similar to ISO 3019-2

P2 / CMV 60


Y2 / CMV 85

S2 / CMV 115

S2 / CMV 140

S2 / CMV 170

Z4 / CMV 215



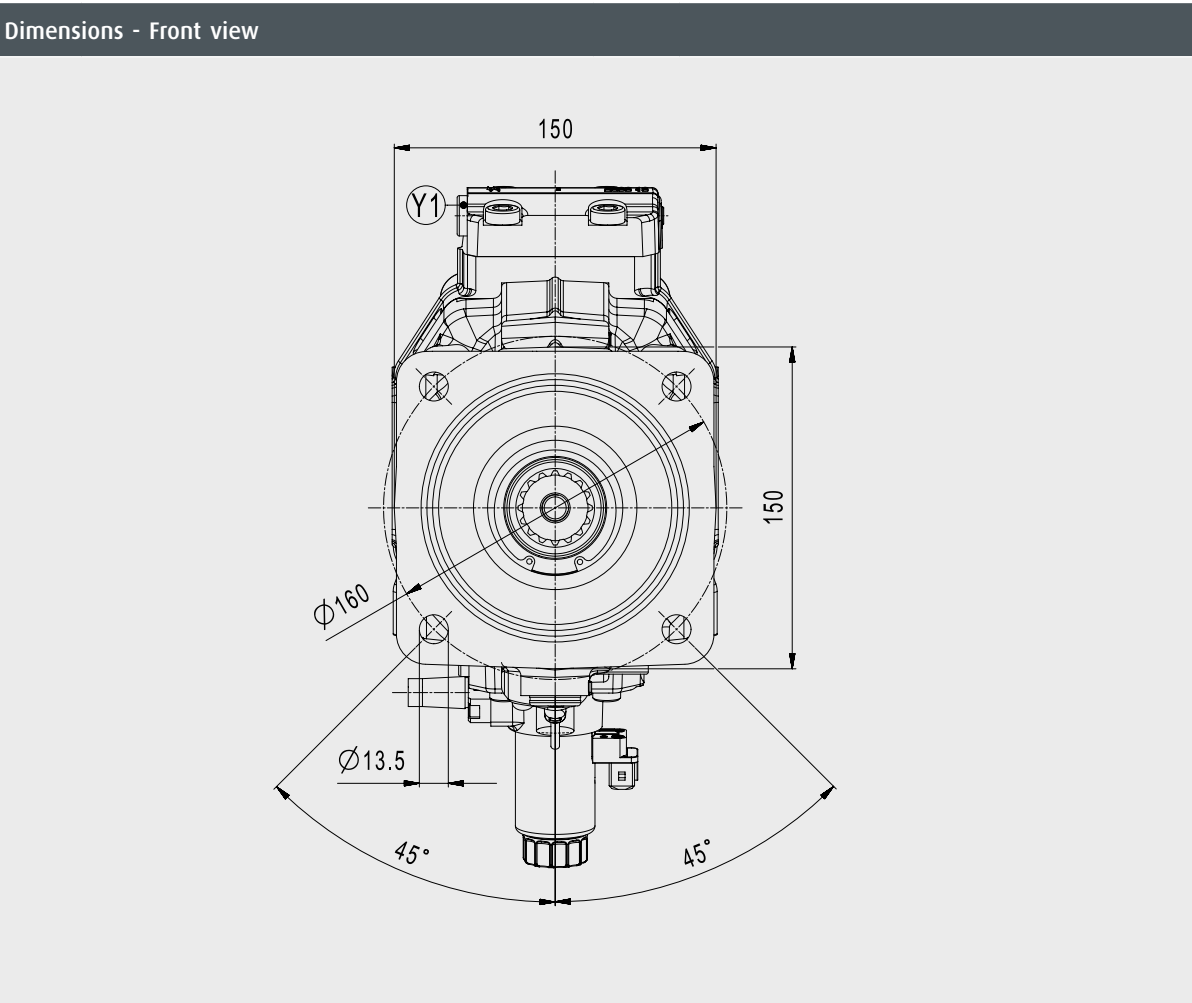
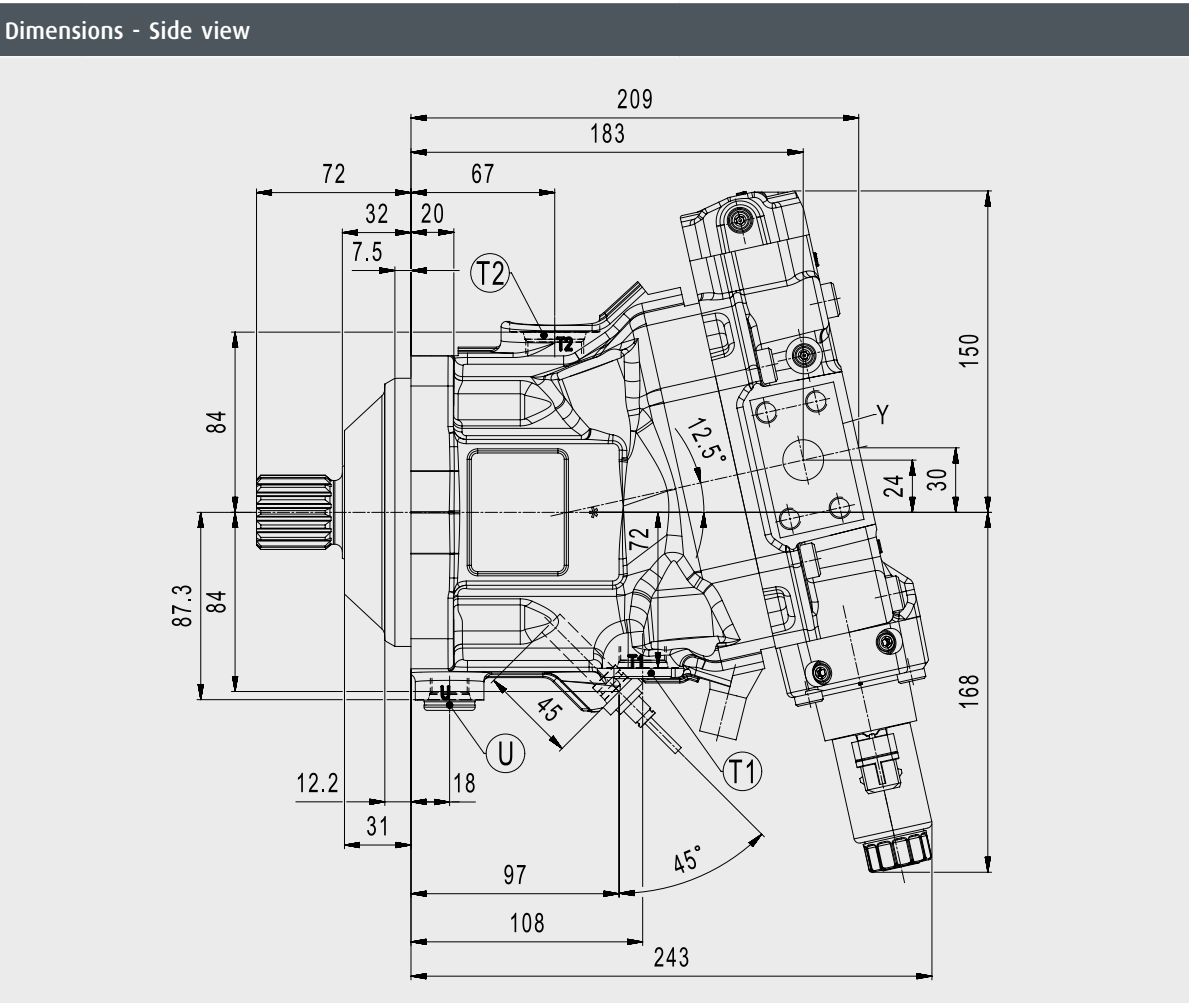
Technical Specification |

Mounting Flanges
Auxiliary Ports

| ISO 3019-2 metric |

M4/CMV60

In the following you will find the technical specifications of the mounting flanges and auxiliary ports. They are clustered according to the standard and nominal sizes. First get an overview of the dimensions. Note the short designations such as „C4“ or „E4“. In the section [Model Code & Availability] you can then check the availability of the mounting flange as well as auxiliary ports and compile your desired configuration using the short designations as a segment of the model code.



A	High pressure work port, ISO 6162-2, If pressurised - motor runs clockwise Nom. pres.: 450 bar, max. press.: 500 bar	AX	Pressure equalization port
		BX	
B	High pressure work port, ISO 6162-2, If pressurised - motor runs counter-clockwise Nom. pres.: 450 bar, max. press.: 500 bar	T1	Drain / vent port, ISO 6149
		T2	Drain / vent port, ISO 6149

G	Ext. control pressure supply, ISO 6149		
U	Bearing flush port, ISO 6149		
Y1	Measuring port, ISO 6149		

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Work Ports

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Functions/Options

ISO 3019-1/
SAE J744

C4 / CMV 60

C2 / CMV 85

D4 / CMV 115

D4 / CMV 140

D4 / CMV 170

E4 / CMV 215

ISO 3019-2
metric

M4 / CMV 60

N4 / CMV 85

P4 / CMV 115

R4 / CMV 140

R4 / CMV 170

S4 / CMV 215

Plug-in,
similar to ISO 3019-2

P2 / CMV 60


Y2 / CMV 85

S2 / CMV 115

S2 / CMV 140

S2 / CMV 170

Z4 / CMV 215



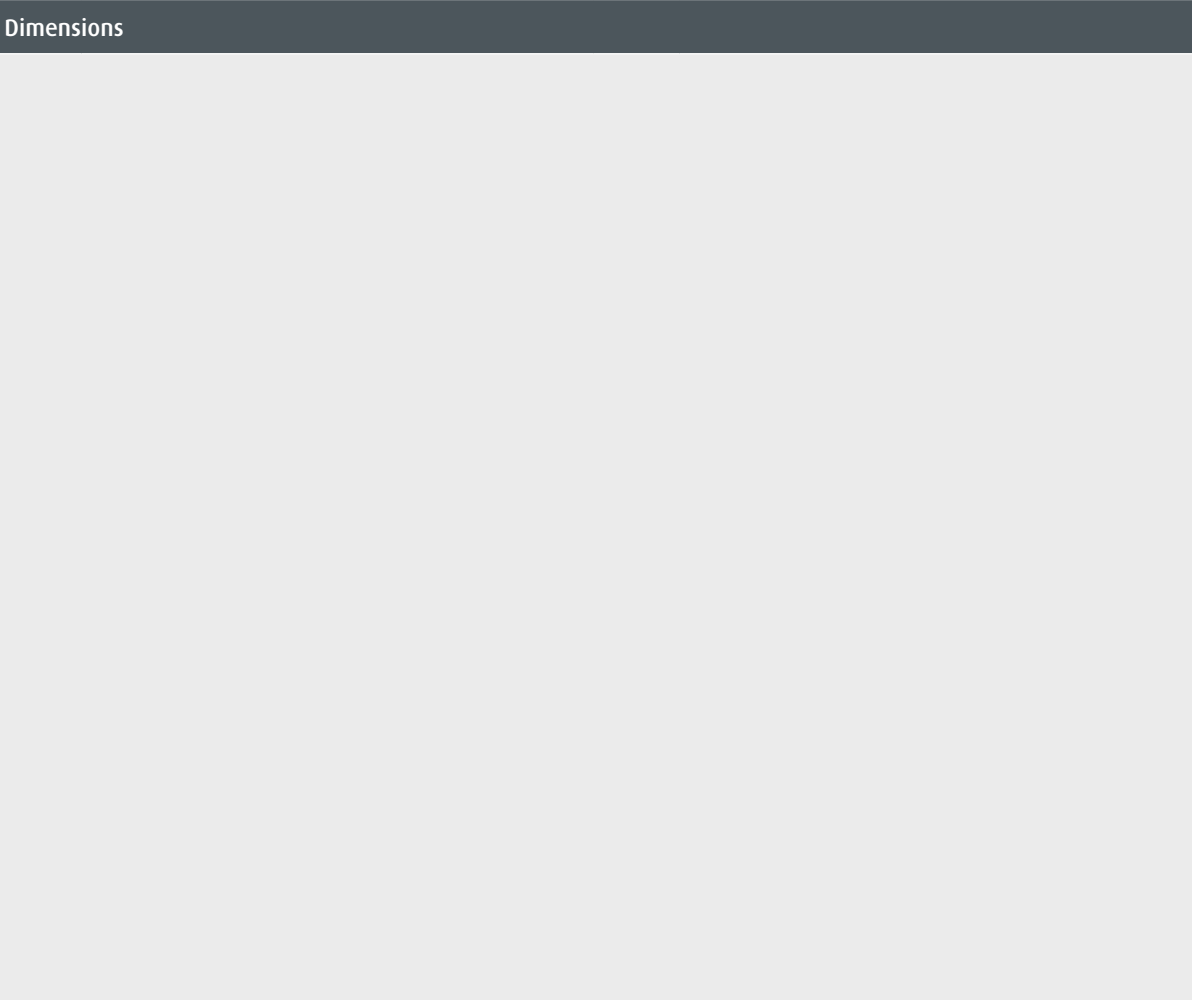
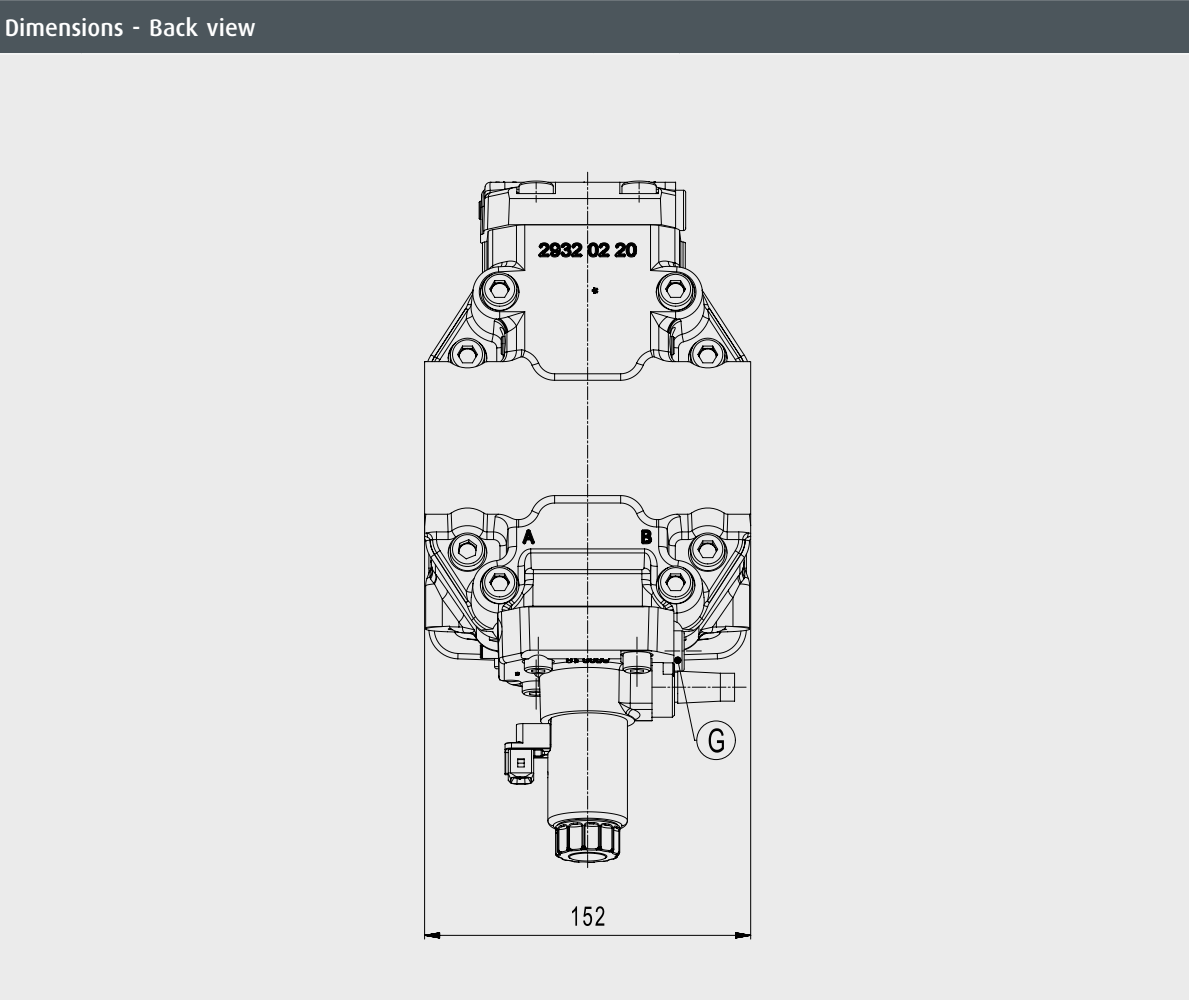
Technical Specification |

Mounting Flanges
Auxiliary Ports

| ISO 3019-2 metric |

M4/CMV60

In the following you will find the technical specifications of the mounting flanges and auxiliary ports. They are clustered according to the standard and nominal sizes. First get an overview of the dimensions. Note the short designations such as „C4“ or „E4“. In the section [Model Code & Availability] you can then check the availability of the mounting flange as well as auxiliary ports and compile your desired configuration using the short designations as a segment of the model code.



A	High pressure work port, ISO 6162-2, If pressurised - motor runs clockwise Nom. pres.: 450 bar, max. press.: 500 bar	AX	Pressure equalization port
		BX	
B	High pressure work port, ISO 6162-2, If pressurised - motor runs counter-clockwise Nom. pres.: 450 bar, max. press.: 500 bar	T1	Drain / vent port, ISO 6149
		T2	Drain / vent port, ISO 6149

G	Ext. control pressure supply, ISO 6149		
U	Bearing flush port, ISO 6149		
Y1	Measuring port, ISO 6149		

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Auxiliary Ports

Functions/Options

ISO 3019-1/
SAE J744

C4 / CMV 60

C2 / CMV 85

D4 / CMV 115

D4 / CMV 140

D4 / CMV 170

E4 / CMV 215

ISO 3019-2
metric

M4 / CMV 60

N4 / CMV 85

P4 / CMV 115

R4 / CMV 140

R4 / CMV 170

S4 / CMV 215

Plug-in,
similar to ISO 3019-2

P2 / CMV 60


Y2 / CMV 85

S2 / CMV 115

S2 / CMV 140

S2 / CMV 170

Z4 / CMV 215



In the following you will find the technical specifications of the mounting flanges and auxiliary ports. They are clustered according to the standard and nominal sizes. First get an overview of the dimensions. Note the short designations such as „C4“ or „E4“. In the section [Model Code & Availability] you can then check the availability of the mounting flange as well as auxiliary ports and compile your desired configuration using the short designations as a segment of the model code.

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Functions/Options

ISO 3019-1/
SAE J744

C4 / CMV 60

C2 / CMV 85

D4 / CMV 115

D4 / CMV 140

D4 / CMV 170

E4 / CMV 215

ISO 3019-2
metric

M4 / CMV 60

N4 / CMV 85

P4 / CMV 115

R4 / CMV 140

R4 / CMV 170

S4 / CMV 215

Plug-in,
similar to ISO 3019-2

P2 / CMV 60

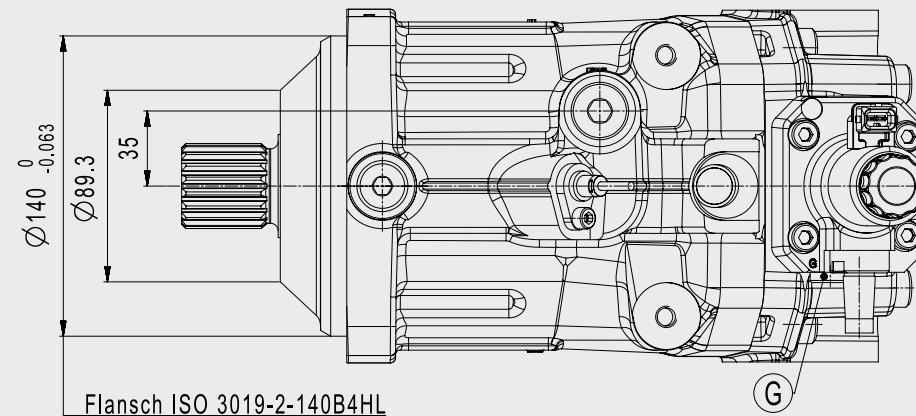
Y2 / CMV 85

S2 / CMV 115

S2 / CMV 140

S2 / CMV 170

Z4 / CMV 215



Dimensions - Top view

Dimensions

A	High pressure work port, ISO 6162-2, SAE 1" If pressurised - motor runs clockwise Nom. pres.: 450 bar, max. press.: 500 bar	AX	Pressure equalization port
		BX	
B	High pressure work port, ISO 6162-2, SAE 1" If pressurised - motor runs counter-clockwise Nom. pres.: 450 bar, max. press.: 500 bar	T1	Drain / vent port, ISO 6149, M22x1.5, 15.5 mm deep
		T2	Drain / vent port, ISO 6149, M27x2, 19 mm deep

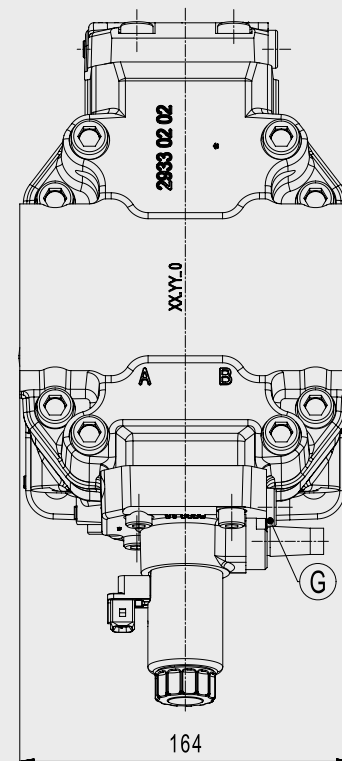
G	Ext. control pressure supply, ISO 6149, M14x1.5, 11.5 mm deep		
U	Bearing flush port, ISO 6149, M18x1.5, 14.5 mm deep		
Y1	Measuring port, ISO 6149, M14x1.5, 11.5 mm deep		



G	Ext. control pressure supply, ISO 6149, M14x1.5, 11.5 mm deep		
U	Bearing flush port, ISO 6149, M18x1.5, 14.5 mm deep		
Y1	Measuring port, ISO 6149, M14x1.5, 11.5 mm deep		

In the following you will find the technical specifications of the mounting flanges and auxiliary ports. They are clustered according to the standard and nominal sizes. First get an overview of the dimensions. Note the short designations such as „C4“ or „E4“. In the section [Model Code & Availability] you can then check the availability of the mounting flange as well as auxiliary ports and compile your desired configuration using the short designations as a segment of the model code.

Z4 / CMV 215



A	High pressure work port, ISO 6162-2, SAE 1" If pressurised - motor runs clockwise Nom. pres.: 450 bar, max. press.: 500 bar	AX	Pressure equalization port
		BX	
B	High pressure work port, ISO 6162-2, SAE 1" If pressurised - motor runs counter-clockwise Nom. pres.: 450 bar, max. press.: 500 bar	T1	Drain / vent port, ISO 6149, M22x1.5, 15.5 mm deep
		T2	Drain / vent port, ISO 6149, M27x2, 19 mm deep

G	Ext. control pressure supply, ISO 6149, M14x1.5, 11.5 mm deep		
U	Bearing flush port, ISO 6149, M18x1.5, 14.5 mm deep		
Y1	Measuring port, ISO 6149, M14x1.5, 11.5 mm deep		



Technical Specification |

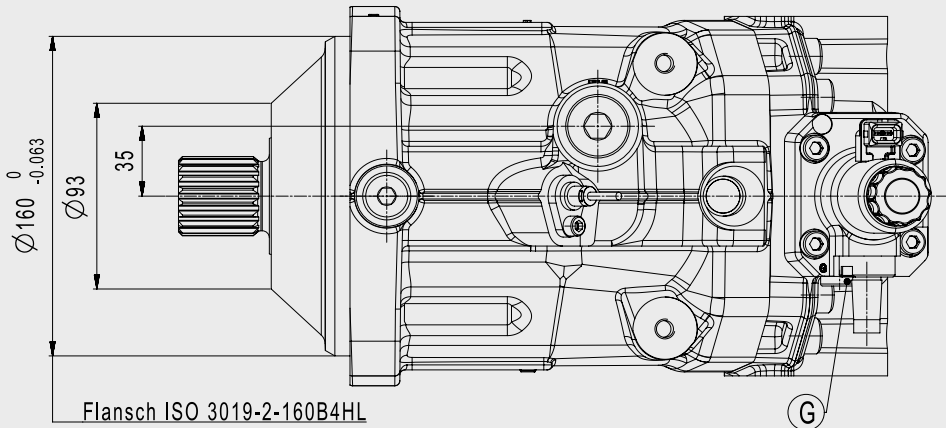
Mounting Flanges
Auxiliary Ports

| ISO 3019-2 metric |

P4/CMV115

In the following you will find the technical specifications of the mounting flanges and auxiliary ports. They are clustered according to the standard and nominal sizes. First get an overview of the dimensions. Note the short designations such as „C4“ or „E4“. In the section [Model Code & Availability] you can then check the availability of the mounting flange as well as auxiliary ports and compile your desired configuration using the short designations as a segment of the model code.

Dimensions - Top view



A	High pressure work port, ISO 6162-2, SAE 1" If pressurised - motor runs clockwise Nom. pres.: 450 bar, max. press.: 500 bar	AX	Pressure equalization port
		BX	
B	High pressure work port, ISO 6162-2, SAE 1" If pressurised - motor runs counter-clockwise Nom. pres.: 450 bar, max. press.: 500 bar	T1	Drain / vent port, ISO 6149, M27x2, 19 mm deep
		T2	Drain / vent port, ISO 6149, M33x2, 19 mm deep

G	Ext. control pressure supply, ISO 6149, M14x1.5, 11.5 mm deep		
U	Bearing flush port, ISO 6149, M18x1.5, 14.5 mm deep		
Y1	Measuring port, ISO 6149, M14x1.5, 11.5 mm deep		

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Functions/Options

ISO 3019-1/
SAE J744

C4 / CMV 60

C2 / CMV 85

D4 / CMV 115

D4 / CMV 140

D4 / CMV 170

E4 / CMV 215

ISO 3019-2
metric

M4 / CMV 60

N4 / CMV 85

P4 / CMV 115

R4 / CMV 140

R4 / CMV 170

S4 / CMV 215

Plug-in,
similar to ISO 3019-2

P2 / CMV 60


Y2 / CMV 85

S2 / CMV 115

S2 / CMV 140

S2 / CMV 170

Z4 / CMV 215



In the following you will find the technical specifications of the mounting flanges and auxiliary ports. They are clustered according to the standard and nominal sizes. First get an overview of the dimensions. Note the short designations such as „C4“ or „E4“. In the section [Model Code & Availability] you can then check the availability of the mounting flange as well as auxiliary ports and compile your desired configuration using the short designations as a segment of the model code.

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Auxiliary Ports

Functions/Options

C4 / CMV 60

C2 / CMV 85

D4 / CMV 115

D4 / CMV 140

D4 / CMV 170

E4 / CMV 215

M4 / CMV 60

N4 / CMV 85

P4 / CMV 115

R4 / CMV 140

R4 / CMV 170

S4 / CMV 215

P2 / CMV 60

Y2 / CMV 85

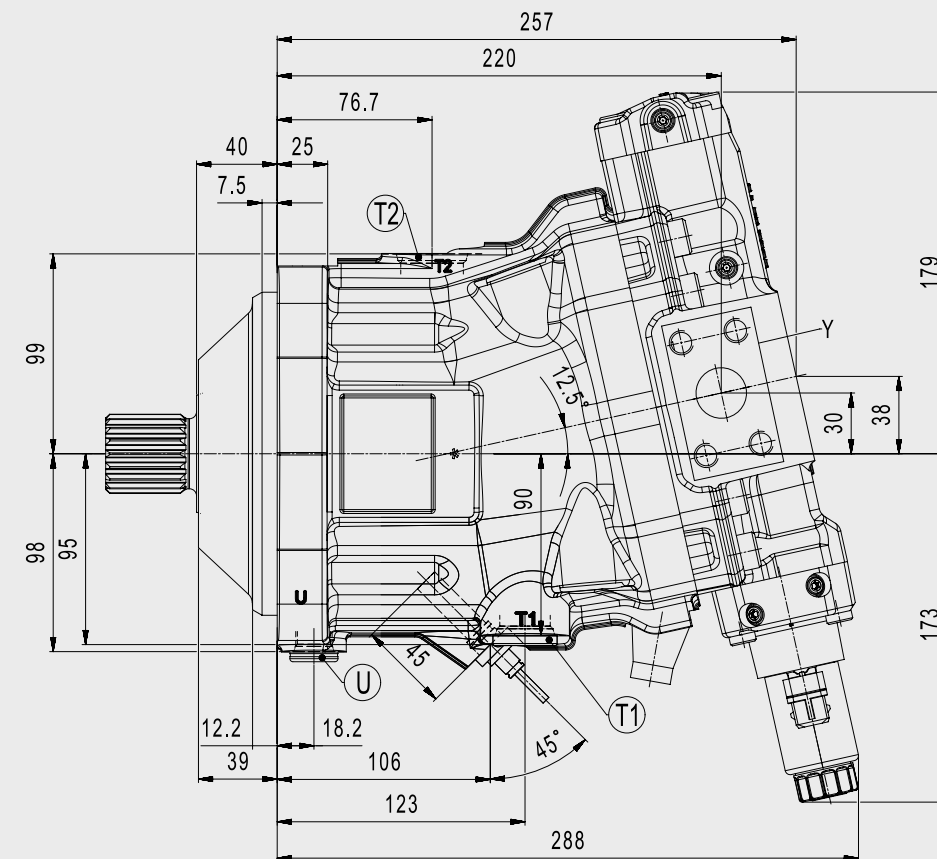
S2 / CMV 115

S2 / CMV 140

S2 / CMV 170

Z4 / CMV 215

Dimensions - Side view



High pressure work port, ISO 6162-2, SAE 1"
If pressurised - motor runs clockwise
Nom. pres.: 450 bar, max. press.: 500 bar

High pressure work port, ISO 6162-2, SAE 1"
If pressurised - motor runs counter-clockwise
Nom. pres.: 450 bar, max. press.: 500 bar

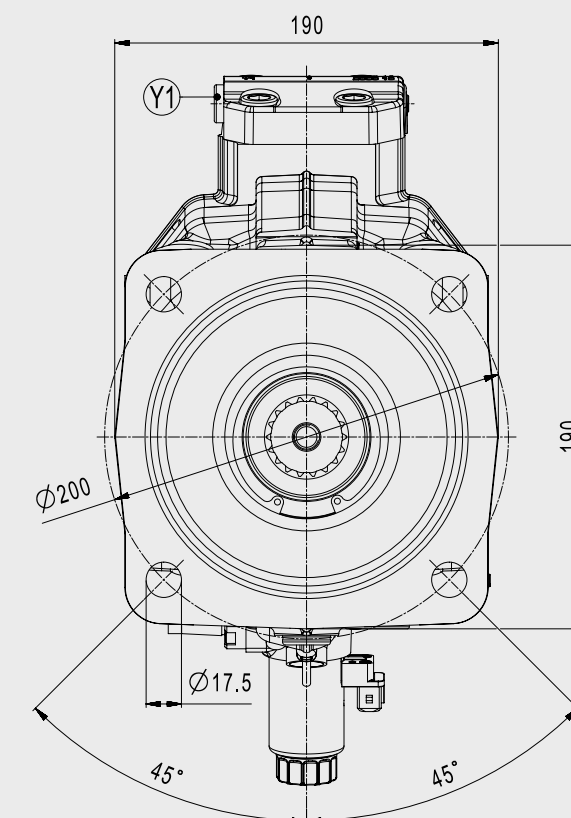
Pressure equalization port

Pressure equalization port

Drain / vent port, ISO 6149, M27x2, 19 mm deep

Drain / vent port, ISO 6149, M33x2, 19 mm deep

Dimensions - Front view



Ext. control pressure supply, ISO 6149, M14x1.5, 11.5 mm deep

Bearing flush port, ISO 6149, M18x1.5, 14.5 mm deep

Measuring port, ISO 6149, M14x1.5, 11.5 mm deep



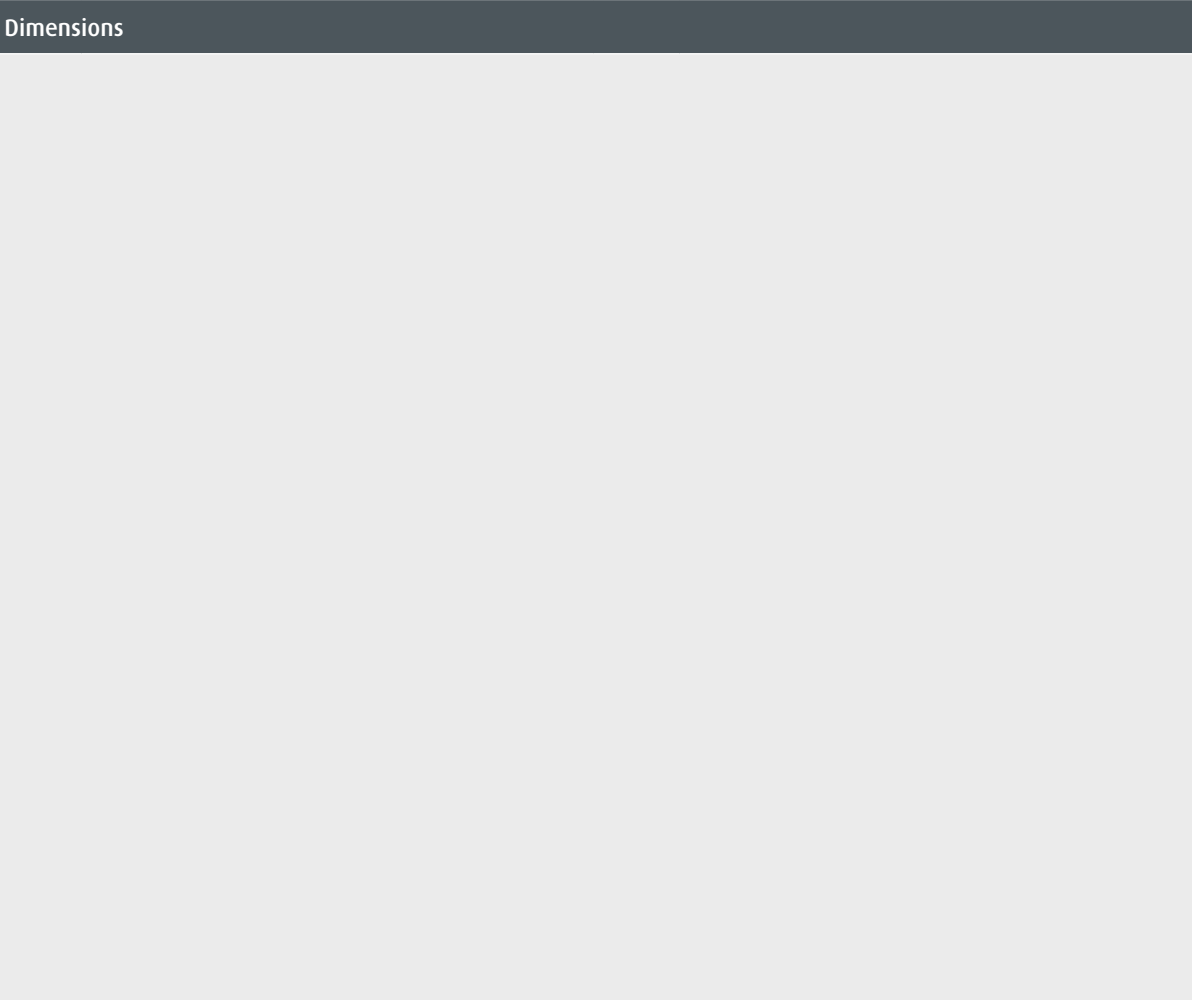
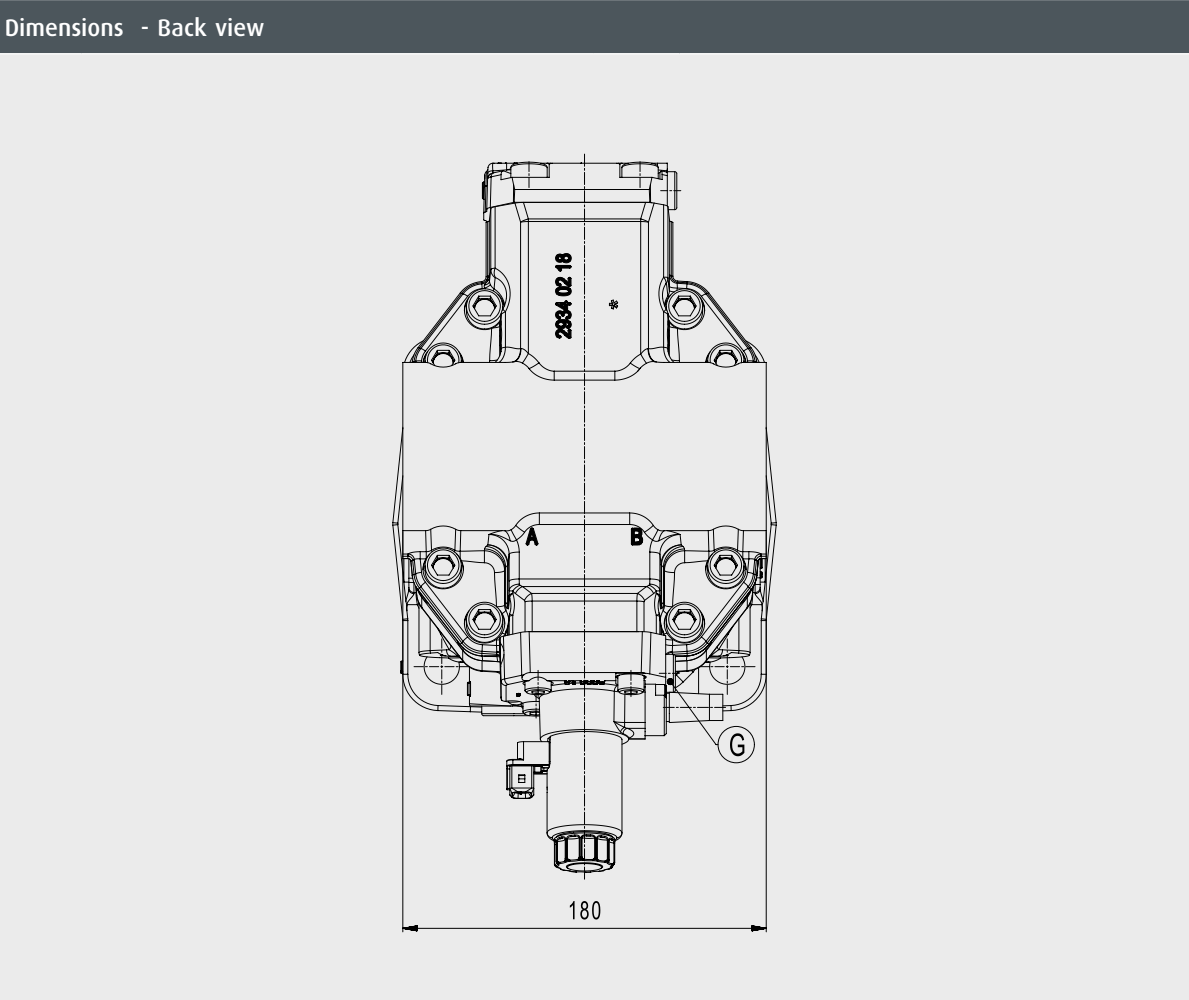
Technical Specification |

Mounting Flanges
Auxiliary Ports

| ISO 3019-2 metric |

P4/CMV115

In the following you will find the technical specifications of the mounting flanges and auxiliary ports. They are clustered according to the standard and nominal sizes. First get an overview of the dimensions. Note the short designations such as „C4“ or „E4“. In the section [Model Code & Availability] you can then check the availability of the mounting flange as well as auxiliary ports and compile your desired configuration using the short designations as a segment of the model code.



A	High pressure work port, ISO 6162-2, SAE 1" If pressurised - motor runs clockwise Nom. pres.: 450 bar, max. press.: 500 bar	AX	Pressure equalization port
		BX	
B	High pressure work port, ISO 6162-2, SAE 1" If pressurised - motor runs counter-clockwise Nom. pres.: 450 bar, max. press.: 500 bar	T1	Drain / vent port, ISO 6149, M27x2, 19 mm deep
		T2	Drain / vent port, ISO 6149, M33x2, 19 mm deep

G	Ext. control pressure supply, ISO 6149, M14x1.5, 11.5 mm deep		
U	Bearing flush port, ISO 6149, M18x1.5, 14.5 mm deep		
Y1	Measuring port, ISO 6149, M14x1.5, 11.5 mm deep		

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Auxiliary Ports

Functions/Options

ISO 3019-1/
SAE J744

C4 / CMV 60

C2 / CMV 85

D4 / CMV 115

D4 / CMV 140

D4 / CMV 170

E4 / CMV 215

ISO 3019-2
metric

M4 / CMV 60

N4 / CMV 85

P4 / CMV 115

R4 / CMV 140

R4 / CMV 170

S4 / CMV 215

Plug-in,
similar to ISO 3019-2

P2 / CMV 60


Y2 / CMV 85

S2 / CMV 115

S2 / CMV 140

S2 / CMV 170

Z4 / CMV 215



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Auxiliary Ports

Functions/Options

ISO 3019-1/
SAE J744

C4 / CMV 60

C2 / CMV 85

D4 / CMV 115

D4 / CMV 140

D4 / CMV 170

E4 / CMV 215

ISO 3019-2
metric

M4 / CMV 60

N4 / CMV 85

P4 / CMV 115

R4 / CMV 140

R4 / CMV 170

S4 / CMV 215

Plug-in,
similar to ISO 3019-2

P2 / CMV 60


Y2 / CMV 85

S2 / CMV 115

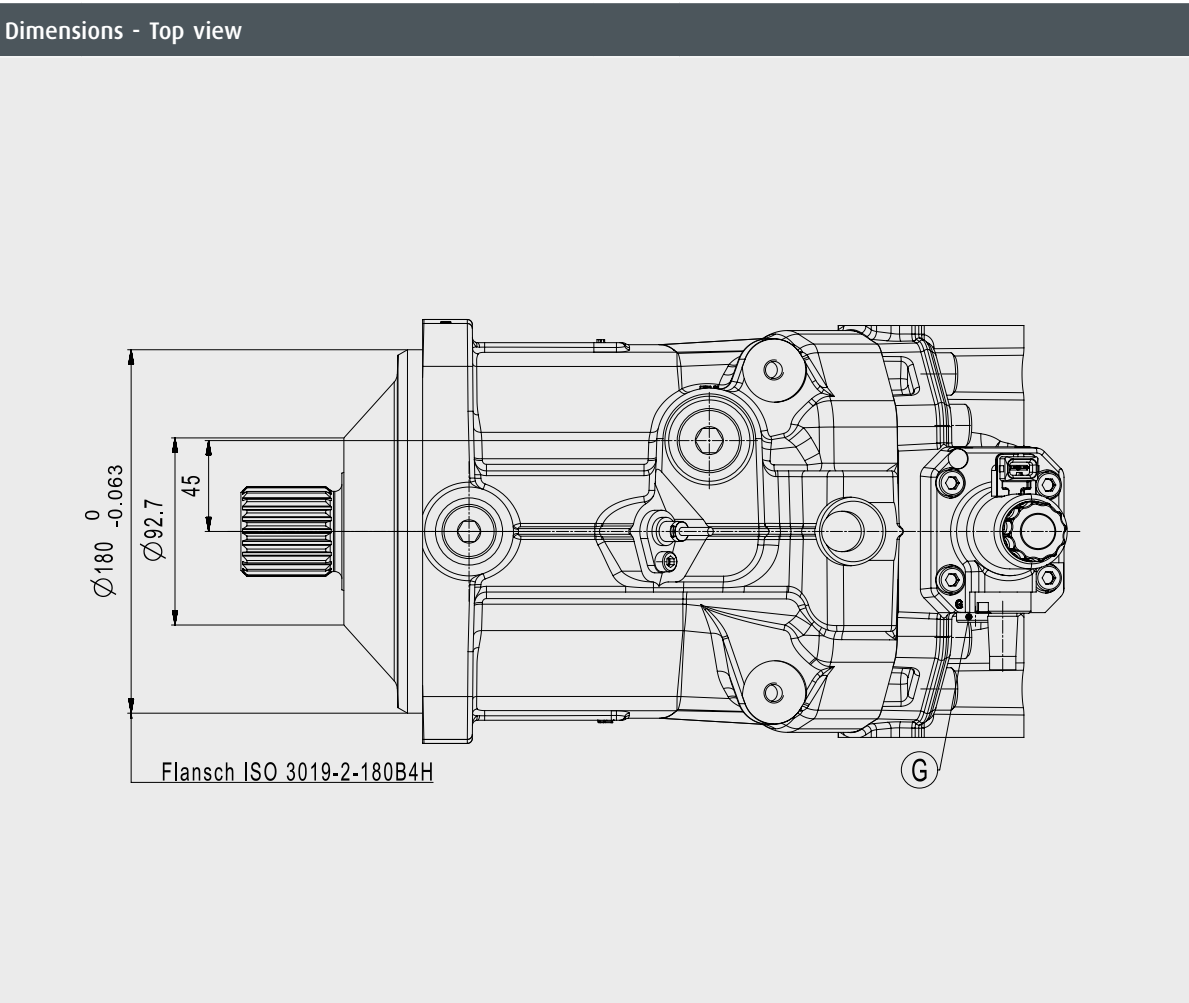
S2 / CMV 140

S2 / CMV 170

Z4 / CMV 215



In the following you will find the technical specifications of the mounting flanges and auxiliary ports. They are clustered according to the standard and nominal sizes. First get an overview of the dimensions. Note the short designations such as „C4“ or „E4“. In the section [Model Code & Availability] you can then check the availability of the mounting flange as well as auxiliary ports and compile your desired configuration using the short designations as a segment of the model code.



A	High pressure work port, ISO 6162-2, SAE 1 1/4" If pressurised - motor runs clockwise Nom. pres.: 450 bar, max. press.: 500 bar	AX	Pressure equalization port
		BX	
B	High pressure work port, ISO 6162-2, SAE 1 1/4" If pressurised - motor runs counter-clockwise Nom. pres.: 450 bar, max. press.: 500 bar	T1	Drain / vent port, ISO 6149, M27x2, 19 mm deep
		T2	Drain / vent port, ISO 6149, M33x2, 19 mm deep

G	Ext. control pressure supply, ISO 6149, M14x1.5, 11.5 mm deep		
U	Bearing flush port, ISO 6149, M22x1.5, 15.5 mm deep		
Y1	Measuring port, ISO 6149, M14x1.5, 11.5 mm deep		

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Functions/Options

ISO 3019-1/
SAE J744

C4 / CMV 60

C2 / CMV 85

D4 / CMV 115

D4 / CMV 140

D4 / CMV 170

E4 / CMV 215

ISO 3019-2
metric

M4 / CMV 60

N4 / CMV 85

P4 / CMV 115

R4 / CMV 140

R4 / CMV 170

S4 / CMV 215

Plug-in,
similar to ISO 3019-2

P2 / CMV 60


Y2 / CMV 85

S2 / CMV 115

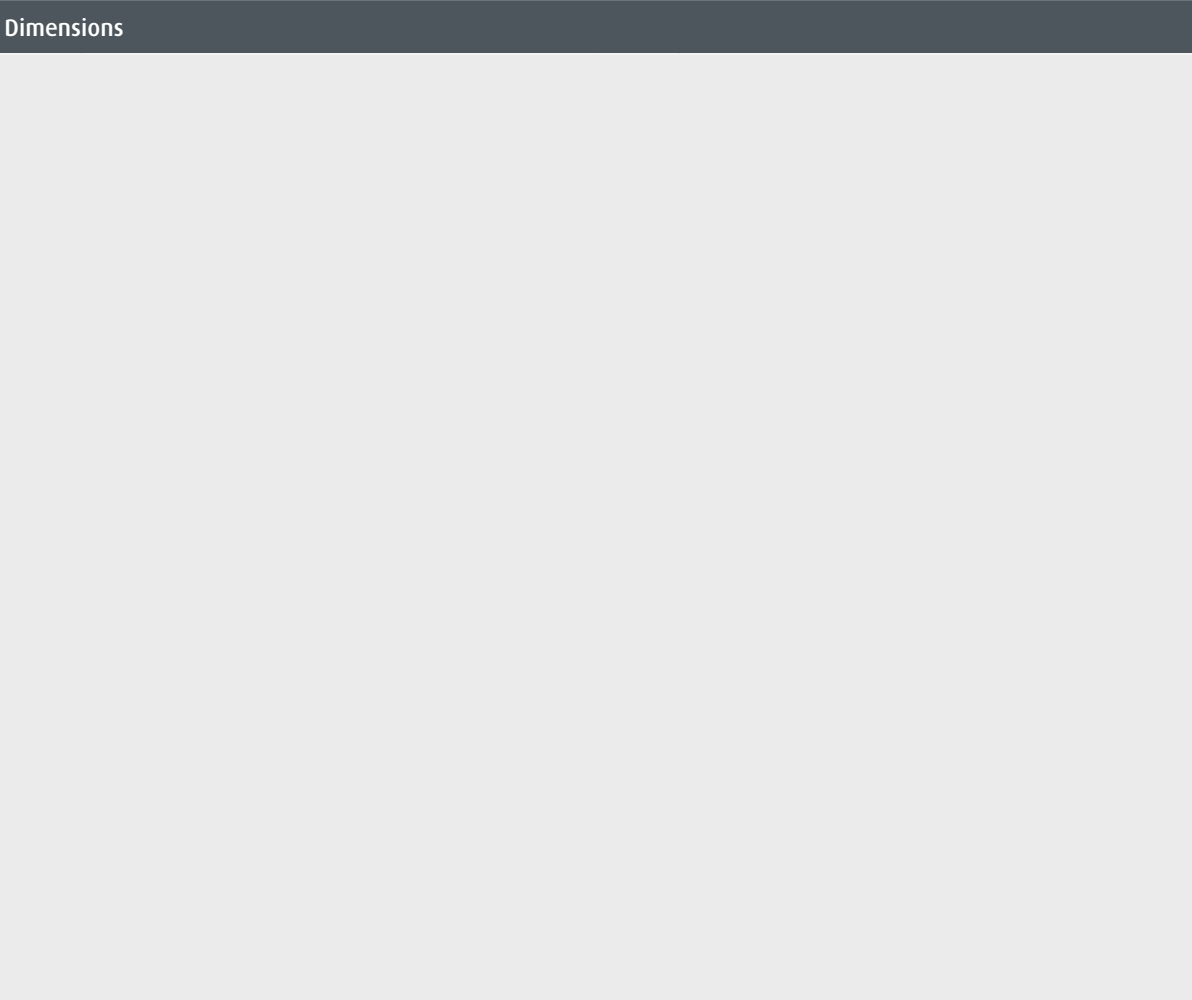
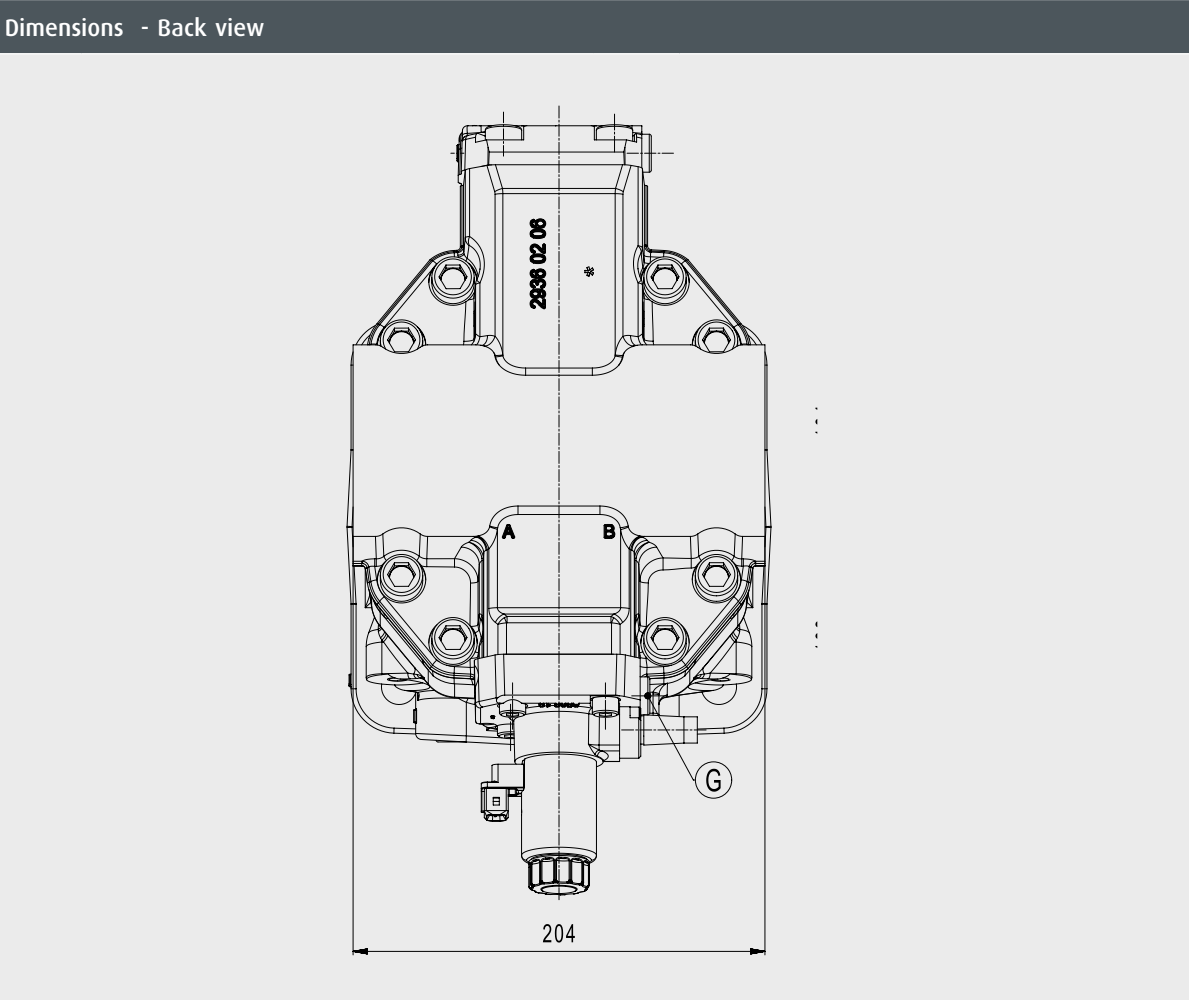
S2 / CMV 140

S2 / CMV 170

Z4 / CMV 215



In the following you will find the technical specifications of the mounting flanges and auxiliary ports. They are clustered according to the standard and nominal sizes. First get an overview of the dimensions. Note the short designations such as „C4“ or „E4“. In the section [Model Code & Availability] you can then check the availability of the mounting flange as well as auxiliary ports and compile your desired configuration using the short designations as a segment of the model code.



A	High pressure work port, ISO 6162-2, SAE 1 1/4" If pressurised - motor runs clockwise Nom. pres.: 450 bar, max. press.: 500 bar	AX	Pressure equalization port
		BX	
B	High pressure work port, ISO 6162-2, SAE 1 1/4" If pressurised - motor runs counter-clockwise Nom. pres.: 450 bar, max. press.: 500 bar	T1	Drain / vent port, ISO 6149, M27x2, 19 mm deep
		T2	Drain / vent port, ISO 6149, M33x2, 19 mm deep

G	Ext. control pressure supply, ISO 6149, M14x1.5, 11.5 mm deep		
U	Bearing flush port, ISO 6149, M22x1.5, 15.5 mm deep		
Y1	Measuring port, ISO 6149, M14x1.5, 11.5 mm deep		

Technical Specification | Mounting Flanges
Auxiliary Ports

| ISO 3019-2 metric | **R4/CMV170**

In the following you will find the technical specifications of the mounting flanges and auxiliary ports. They are clustered according to the standard and nominal sizes. First get an overview of the dimensions. Note the short designations such as „C4“ or „E4“. In the section [Model Code & Availability] you can then check the availability of the mounting flange as well as auxiliary ports and compile your desired configuration using the short designations as a segment of the model code.

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Functions/Options

ISO 3019-1/
SAE J744

C4 / CMV 60

C2 / CMV 85

D4 / CMV 115

D4 / CMV 140

D4 / CMV 170

E4 / CMV 215

ISO 3019-2
metric

M4 / CMV 60

N4 / CMV 85

P4 / CMV 115

R4 / CMV 140

R4 / CMV 170

S4 / CMV 215

Plug-in,
similar to ISO 3019-2

P2 / CMV 60

Y2 / CMV 85

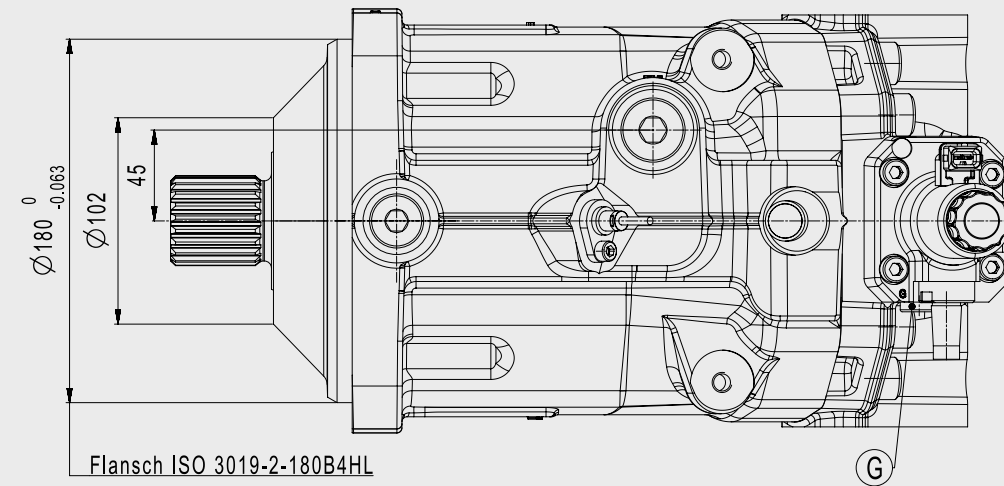
S2 / CMV 115

S2 / CMV 140

S2 / CMV 170

Z4 / CMV 215

Dimensions - Top view



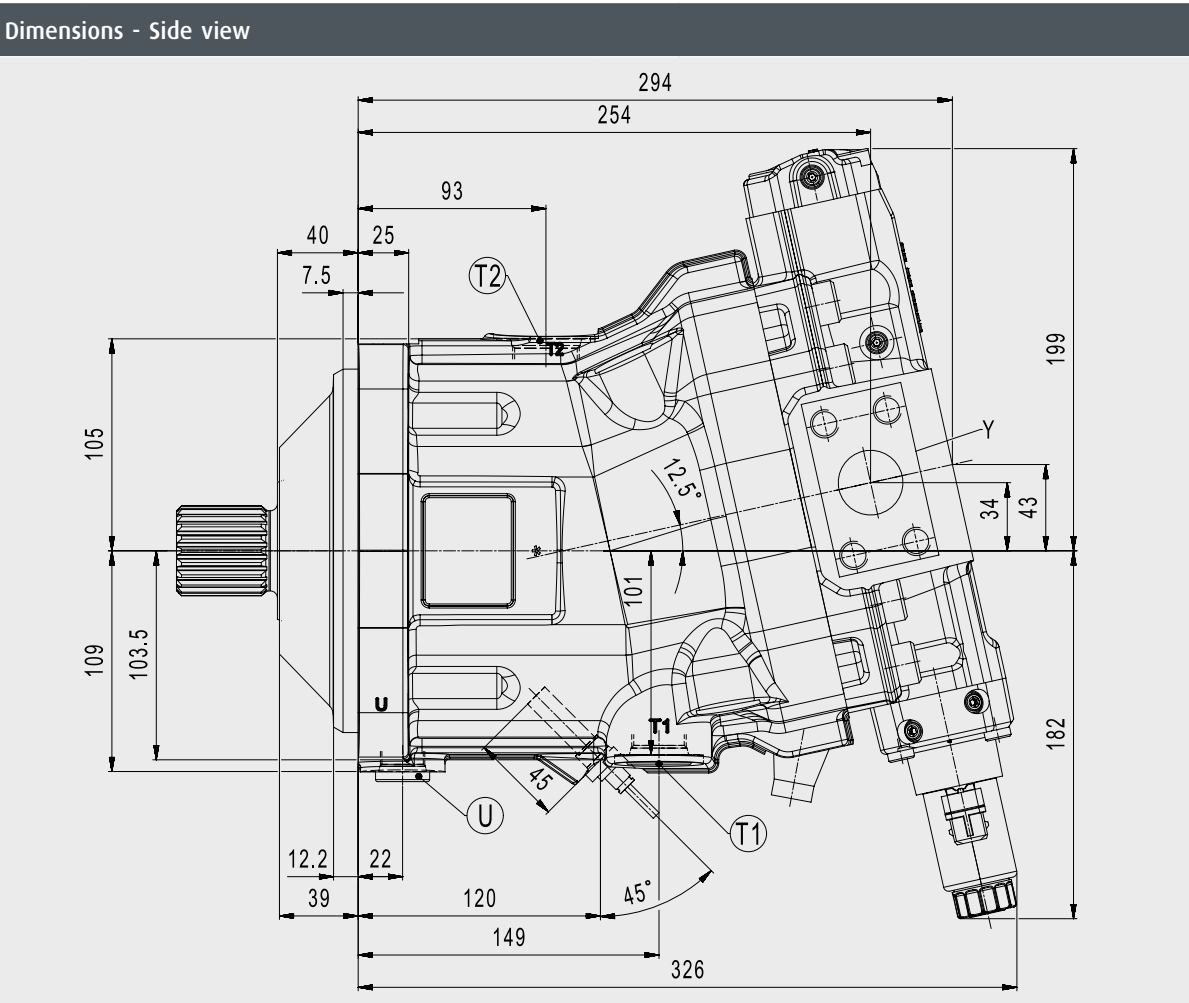
Dimensions

A	High pressure work port, ISO 6162-2, SAE 1 1/4" If pressurised - motor runs clockwise Nom. pres.: 450 bar, max. press.: 500 bar	AX	Pressure equalization port, ISO 6149, M14x1.5, 11.5 mm deep
		BX	
B	High pressure work port, ISO 6162-2, SAE 1 1/4" If pressurised - motor runs counter-clockwise Nom. pres.: 450 bar, max. press.: 500 bar	T1	Drain / vent port, ISO 6149, M27x2, 19 mm deep
		T2	Drain / vent port, ISO 6149, M33x2, 19 mm deep

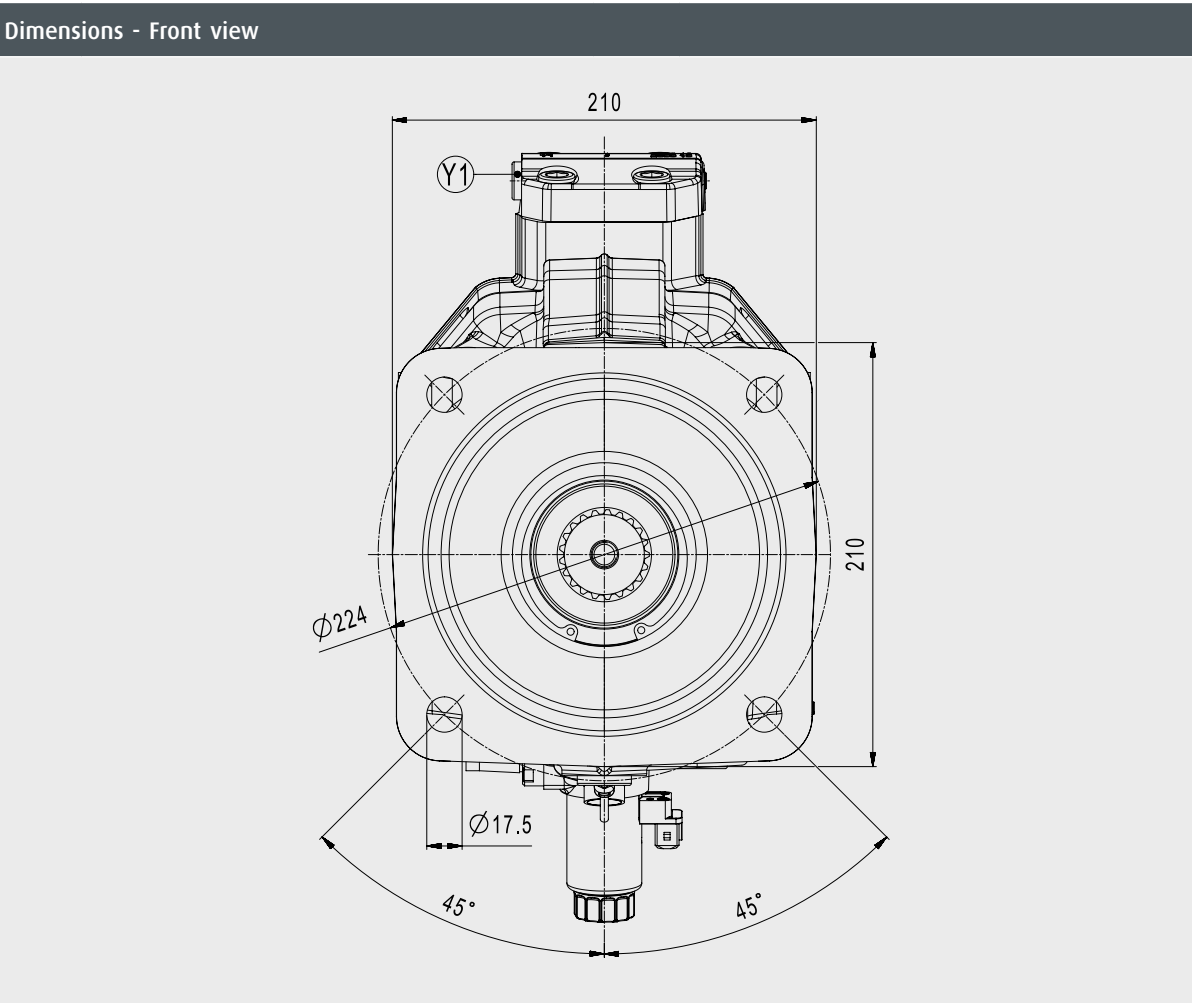
G	Ext. control pressure supply, ISO 6149, M14x1.5, 11.5 mm deep		
U	Bearing flush port, ISO 6149, M22x1.5, 15.5 mm deep		
Y1	Measuring port, ISO 6149, M14x1.5, 11.5 mm deep		



In the following you will find the technical specifications of the mounting flanges and auxiliary ports. They are clustered according to the standard and nominal sizes. First get an overview of the dimensions. Note the short designations such as „C4“ or „E4“. In the section [Model Code & Availability] you can then check the availability of the mounting flange as well as auxiliary ports and compile your desired configuration using the short designations as a segment of the model code.



A	High pressure work port, ISO 6162-2, SAE 1 1/4" If pressurised - motor runs clockwise Nom. pres.: 450 bar, max. press.: 500 bar	AX	Pressure equalization port, ISO 6149, M14x1.5, 11.5 mm deep
		BX	
B	High pressure work port, ISO 6162-2, SAE 1 1/4" If pressurised - motor runs counter-clockwise Nom. pres.: 450 bar, max. press.: 500 bar	T1	Drain / vent port, ISO 6149, M27x2, 19 mm deep
		T2	Drain / vent port, ISO 6149, M33x2, 19 mm deep



G	Ext. control pressure supply, ISO 6149, M14x1.5, 11.5 mm deep	
U	Bearing flush port, ISO 6149, M22x1.5, 15.5 mm deep	
Y1	Measuring port, ISO 6149, M14x1.5, 11.5 mm deep	

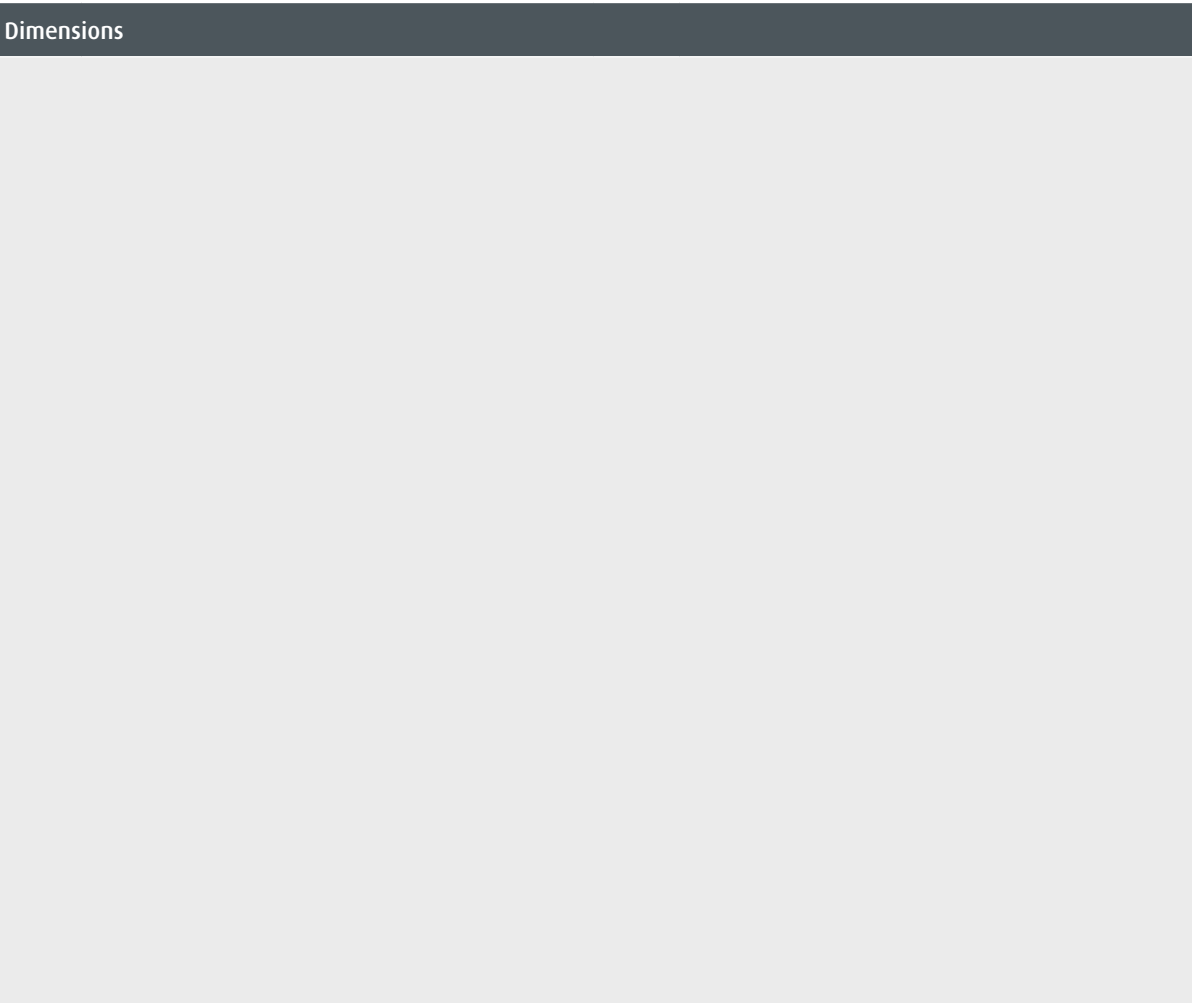
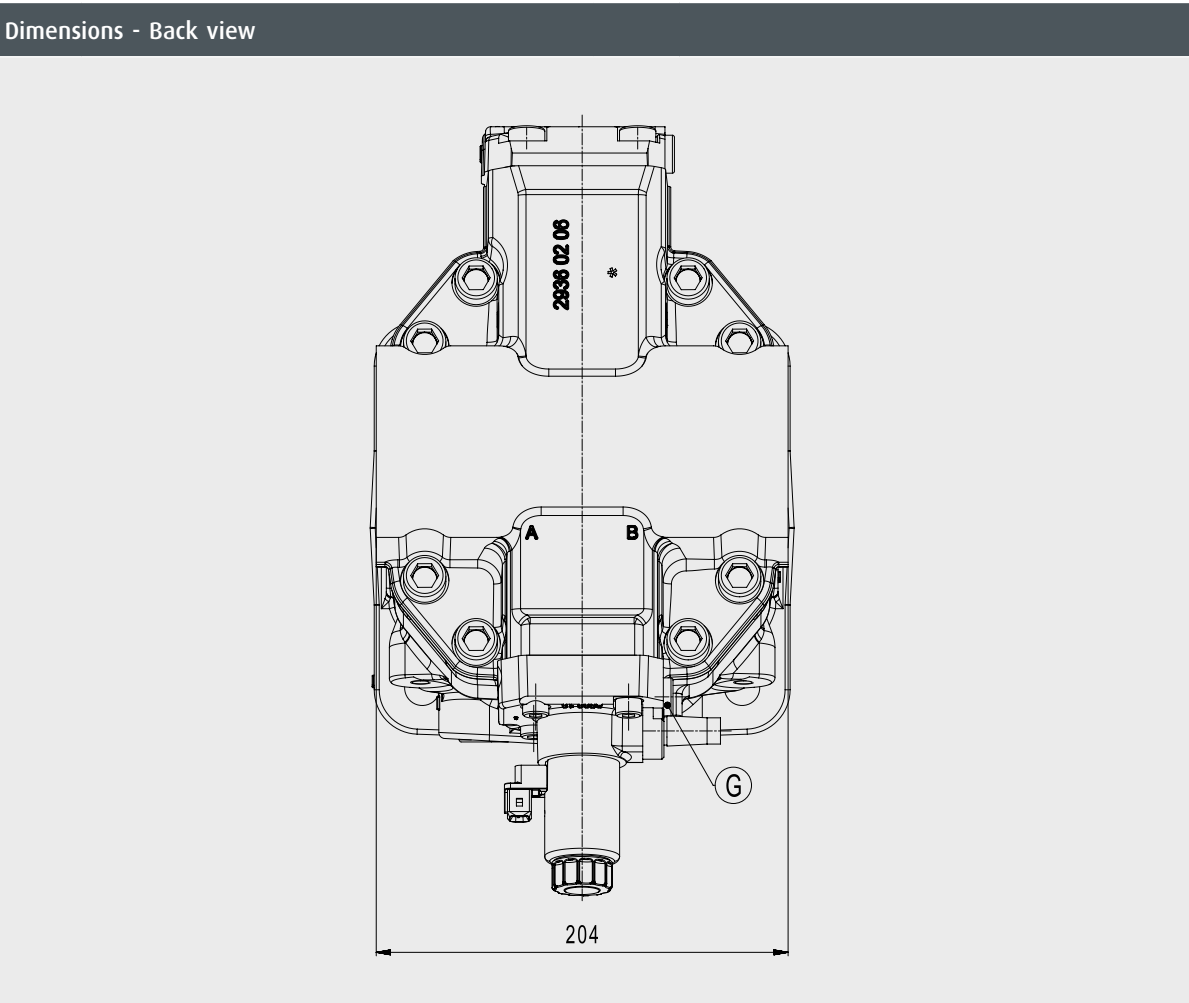
Technical Specification |

Mounting Flanges
Auxiliary Ports

| ISO 3019-2 metric |

R4/CMV170

In the following you will find the technical specifications of the mounting flanges and auxiliary ports. They are clustered according to the standard and nominal sizes. First get an overview of the dimensions. Note the short designations such as „C4“ or „E4“. In the section [Model Code & Availability] you can then check the availability of the mounting flange as well as auxiliary ports and compile your desired configuration using the short designations as a segment of the model code.



A	High pressure work port, ISO 6162-2, SAE 1 1/4" If pressurised - motor runs clockwise Nom. pres.: 450 bar, max. press.: 500 bar	AX	Pressure equalization port, ISO 6149, M14x1.5, 11.5 mm deep
		BX	
B	High pressure work port, ISO 6162-2, SAE 1 1/4" If pressurised - motor runs counter-clockwise Nom. pres.: 450 bar, max. press.: 500 bar	T1	Drain / vent port, ISO 6149, M27x2, 19 mm deep
		T2	Drain / vent port, ISO 6149, M33x2, 19 mm deep

G	Ext. control pressure supply, ISO 6149, M14x1.5, 11.5 mm deep		
U	Bearing flush port, ISO 6149, M22x1.5, 15.5 mm deep		
Y1	Measuring port, ISO 6149, M14x1.5, 11.5 mm deep		

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Auxiliary Ports

Functions/Options

ISO 3019-1/
SAE J744

C4 / CMV 60

C2 / CMV 85

D4 / CMV 115

D4 / CMV 140

D4 / CMV 170

E4 / CMV 215

ISO 3019-2
metric

M4 / CMV 60

N4 / CMV 85

P4 / CMV 115

R4 / CMV 140

R4 / CMV 170

S4 / CMV 215

Plug-in,
similar to ISO 3019-2

P2 / CMV 60


Y2 / CMV 85

S2 / CMV 115

S2 / CMV 140

S2 / CMV 170

Z4 / CMV 215



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ISO 3019-1/
SAE J744

C4 / CMV 60

C2 / CMV 85

D4 / CMV 115

D4 / CMV 140

D4 / CMV 170

E4 / CMV 215

ISO 3019-2
metric

M4 / CMV 60

N4 / CMV 85

P4 / CMV 115

R4 / CMV 140

R4 / CMV 170

S4 / CMV 215

Plug-in,
similar to ISO 3019-2

P2 / CMV 60


Y2 / CMV 85

S2 / CMV 115

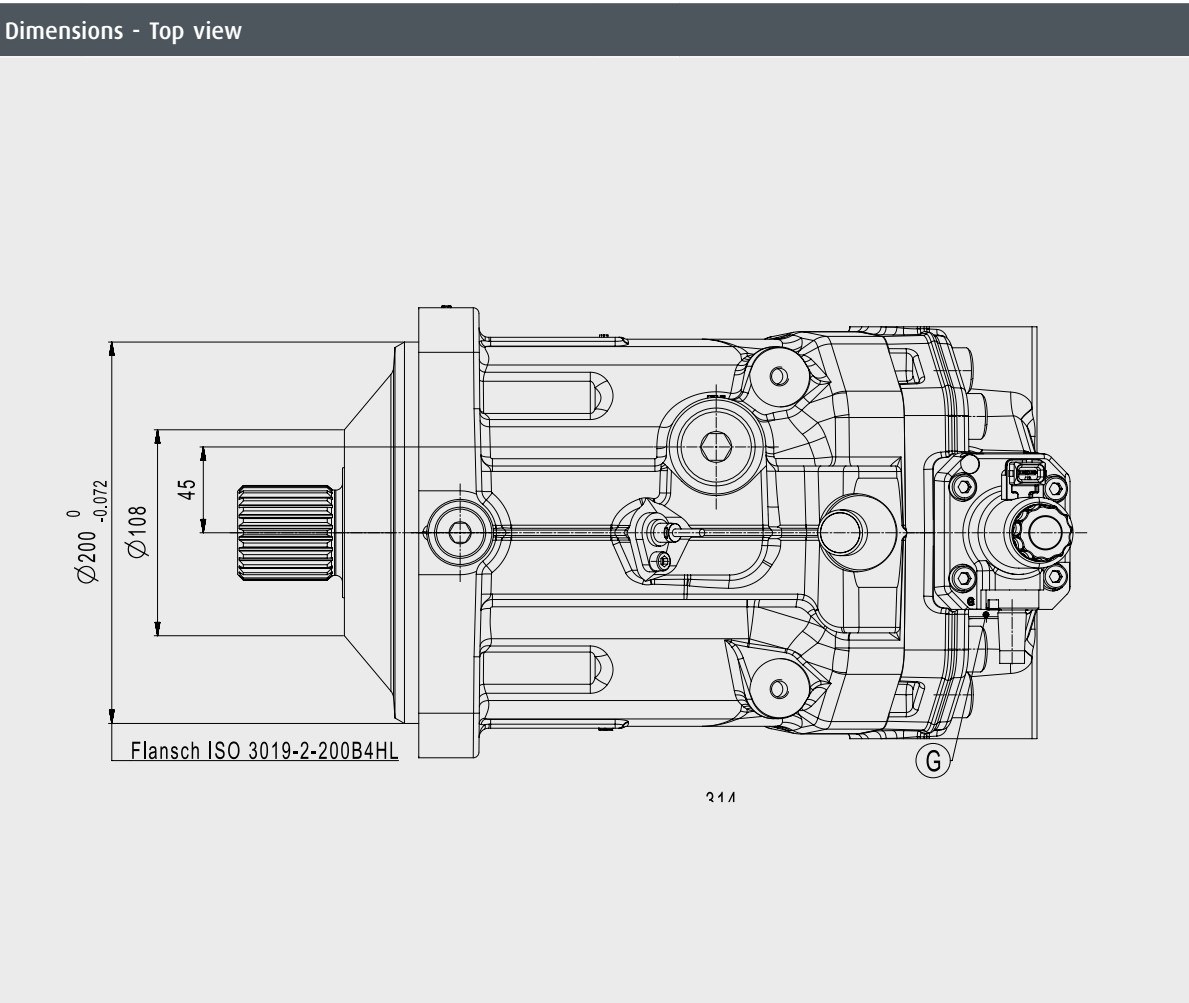
S2 / CMV 140

S2 / CMV 170

Z4 / CMV 215



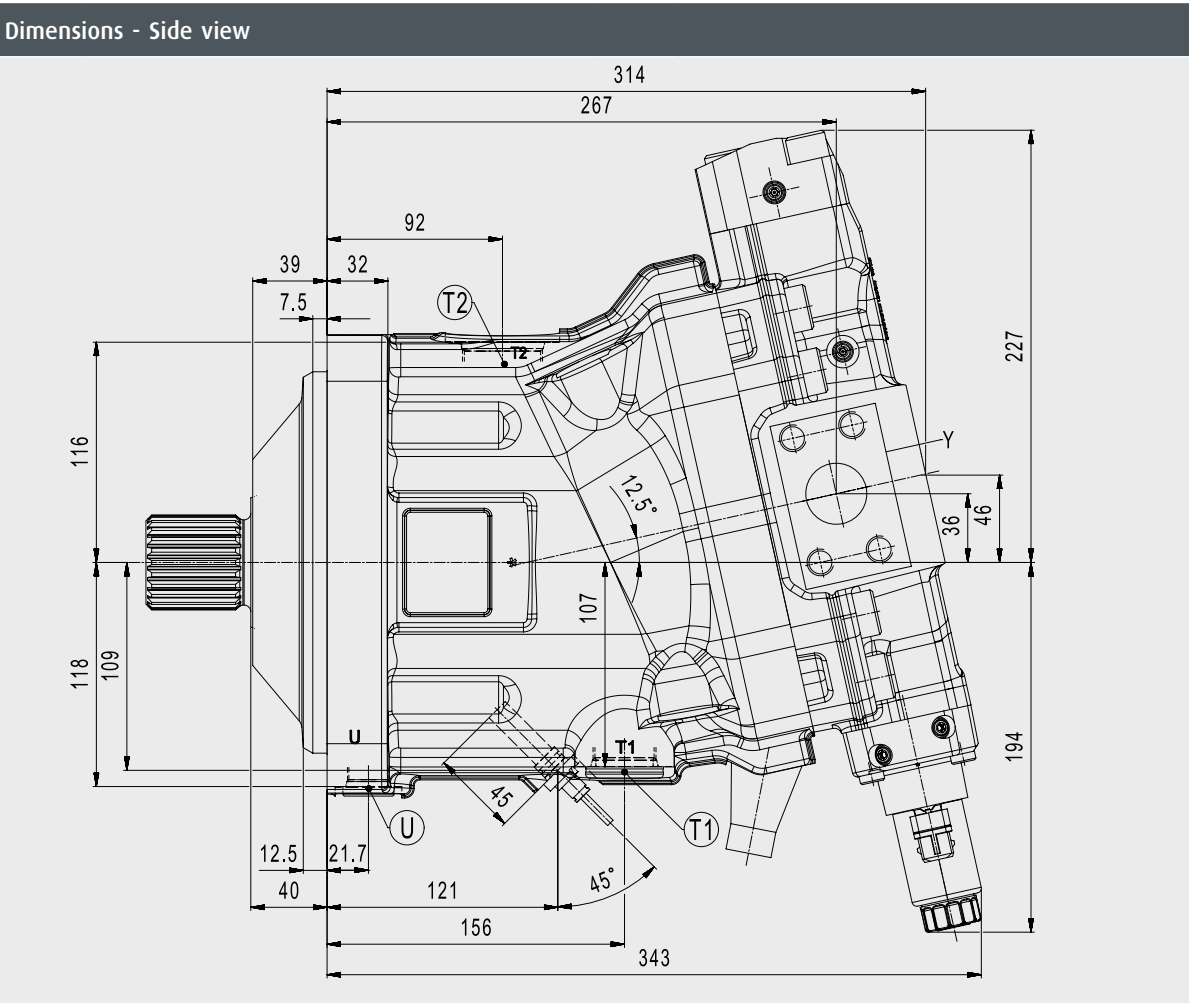
In the following you will find the technical specifications of the mounting flanges and auxiliary ports. They are clustered according to the standard and nominal sizes. First get an overview of the dimensions. Note the short designations such as „C4“ or „E4“. In the section [Model Code & Availability] you can then check the availability of the mounting flange as well as auxiliary ports and compile your desired configuration using the short designations as a segment of the model code.



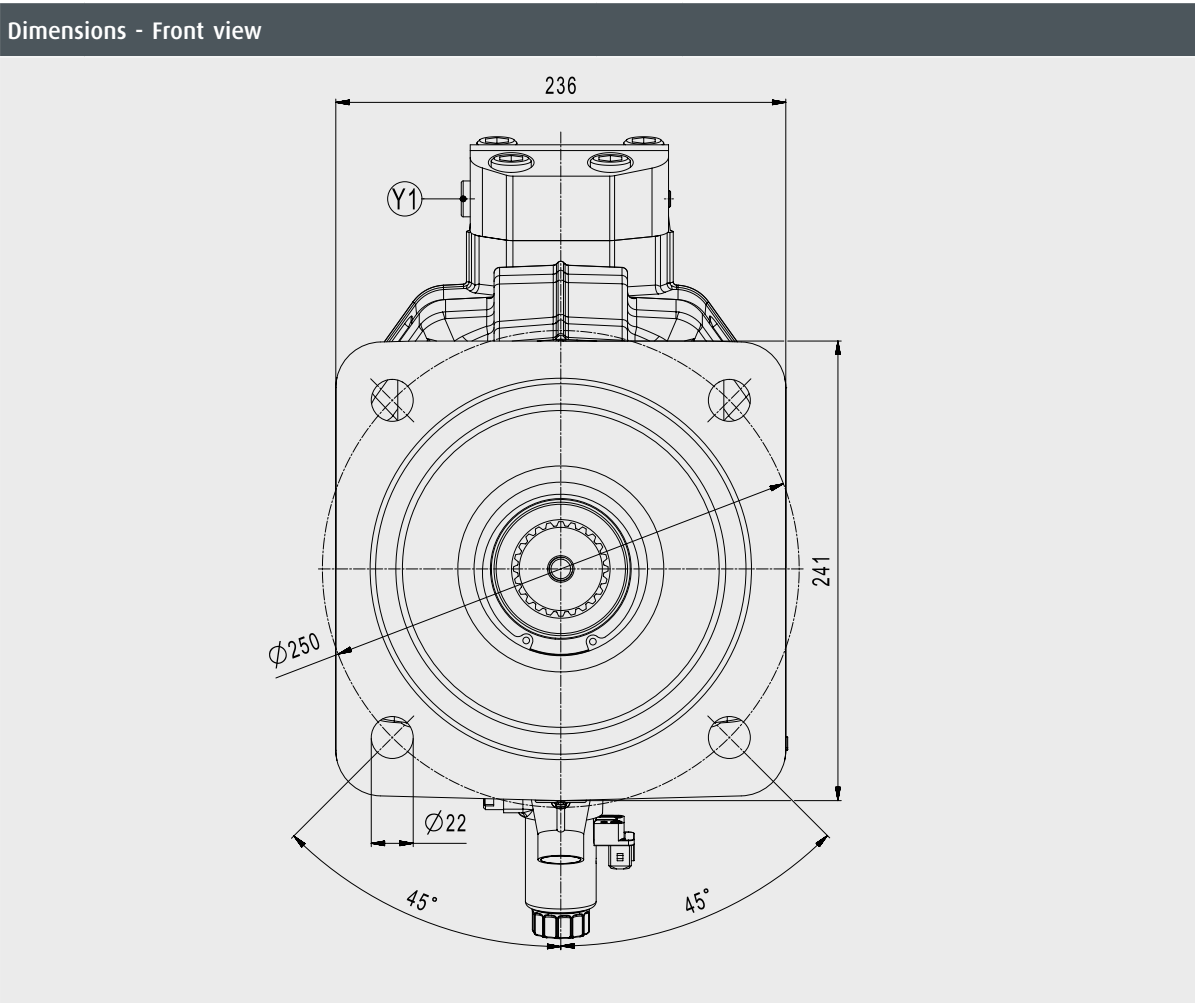
A	High pressure work port, ISO 6162-2, SAE 1 1/4" If pressurised - motor runs clockwise Nom. pres.: 450 bar, max. press.: 500 bar	AX	Pressure equalization port, ISO 6149, M22x1.5, 15.5 mm deep
		BX	
B	High pressure work port, ISO 6162-2, SAE 1 1/4" If pressurised - motor runs counter-clockwise Nom. pres.: 450 bar, max. press.: 500 bar	T1	Drain / vent port, ISO 6149, M33x2, 19 mm deep
		T2	Drain / vent port, ISO 6149, M42x2, 19.5 mm deep

G	Ext. control pressure supply, ISO 6149, M14x1.5, 11.5 mm deep		
U	Bearing flush port, ISO 6149, M22x1.5, 15.5 mm deep		
Y1	Measuring port, ISO 6149, M14x1.5, 11.5 mm deep		

In the following you will find the technical specifications of the mounting flanges and auxiliary ports. They are clustered according to the standard and nominal sizes. First get an overview of the dimensions. Note the short designations such as „C4“ or „E4“. In the section [Model Code & Availability] you can then check the availability of the mounting flange as well as auxiliary ports and compile your desired configuration using the short designations as a segment of the model code.



A	High pressure work port, ISO 6162-2, SAE 1 1/4" If pressurised - motor runs clockwise Nom. pres.: 450 bar, max. press.: 500 bar	AX	Pressure equalization port, ISO 6149, M22x1.5, 15.5 mm deep
		BX	
B	High pressure work port, ISO 6162-2, SAE 1 1/4" If pressurised - motor runs counter-clockwise Nom. pres.: 450 bar, max. press.: 500 bar	T1	Drain / vent port, ISO 6149, M33x2, 19 mm deep
		T2	Drain / vent port, ISO 6149, M42x2, 19.5 mm deep



G	Ext. control pressure supply, ISO 6149, M14x1.5, 11.5 mm deep		
U	Bearing flush port, ISO 6149, M22x1.5, 15.5 mm deep		
Y1	Measuring port, ISO 6149, M14x1.5, 11.5 mm deep		

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ISO 3019-1/
SAE J744

C4 / CMV 60

C2 / CMV 85

D4 / CMV 115

D4 / CMV 140

D4 / CMV 170

E4 / CMV 215

ISO 3019-2
metric

M4 / CMV 60

N4 / CMV 85

P4 / CMV 115

R4 / CMV 140

R4 / CMV 170

S4 / CMV 215

Plug-in,
similar to ISO 3019-2

P2 / CMV 60


Y2 / CMV 85

S2 / CMV 115

S2 / CMV 140

S2 / CMV 170

Z4 / CMV 215



In the following you will find the technical specifications of the mounting flanges and auxiliary ports. They are clustered according to the standard and nominal sizes. First get an overview of the dimensions. Note the short designations such as „C4“ or „E4“. In the section [Model Code & Availability] you can then check the availability of the mounting flange as well as auxiliary ports and compile your desired configuration using the short designations as a segment of the model code.

In the following you will find the technical specifications of the mounting flanges and auxiliary ports. They are clustered according to the standard and nominal sizes. First get an overview of the dimensions. Note the short designations such as „C4“ or „E4“. In the section [Model Code & Availability] you can then check the availability of the mounting flange as well as auxiliary ports and compile your desired configuration using the short designations as a segment of the model code.

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Functions/Options

ISO 3019-1/
SAE J744

C4 / CMV 60

C2 / CMV 85

D4 / CMV 115

D4 / CMV 140

D4 / CMV 170

E4 / CMV 215

ISO 3019-2
metric

M4 / CMV 60

N4 / CMV 85

P4 / CMV 115

R4 / CMV 140

R4 / CMV 170

S4 / CMV 215

Plug-in,
similar to ISO 3019-2

P2 / CMV 60

Y2 / CMV 85

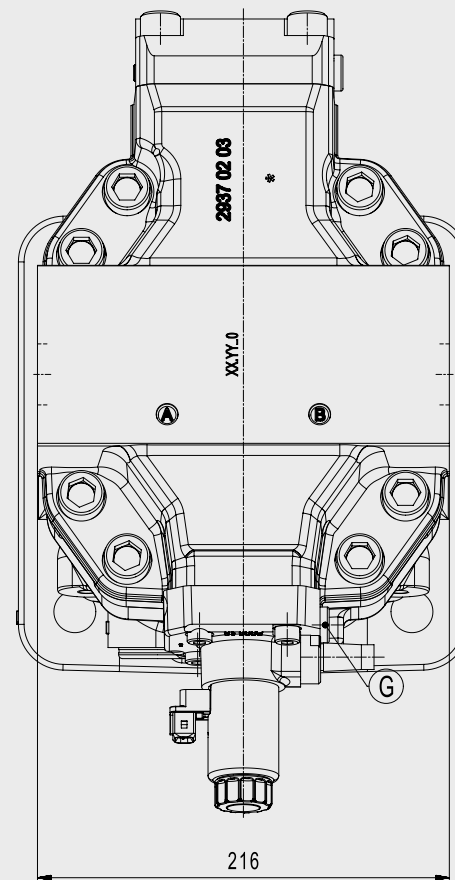
S2 / CMV 115

S2 / CMV 140

S2 / CMV 170

Z4 / CMV 215

Dimensions - Back view



Dimensions

A	High pressure work port, ISO 6162-2, SAE 1 1/4" If pressurised - motor runs clockwise Nom. pres.: 450 bar, max. press.: 500 bar	AX	Pressure equalization port, ISO 6149, M22x1.5, 15.5 mm deep
		BX	
B	High pressure work port, ISO 6162-2, SAE 1 1/4" If pressurised - motor runs counter-clockwise Nom. pres.: 450 bar, max. press.: 500 bar	T1	Drain / vent port, ISO 6149, M33x2, 19 mm deep
		T2	Drain / vent port, ISO 6149, M42x2, 19.5 mm deep

G	Ext. control pressure supply, ISO 6149, M14x1.5, 11.5 mm deep		
U	Bearing flush port, ISO 6149, M22x1.5, 15.5 mm deep		
Y1	Measuring port, ISO 6149, M14x1.5, 11.5 mm deep		



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Auxiliary Ports

Functions/Options

ISO 3019-1/
SAE J744

C4 / CMV 60

C2 / CMV 85

D4 / CMV 115

D4 / CMV 140

D4 / CMV 170

E4 / CMV 215

ISO 3019-2
metric

M4 / CMV 60

N4 / CMV 85

P4 / CMV 115

R4 / CMV 140

R4 / CMV 170

S4 / CMV 215

Plug-in,
similar to ISO 3019-2

P2 / CMV 60


Y2 / CMV 85

S2 / CMV 115

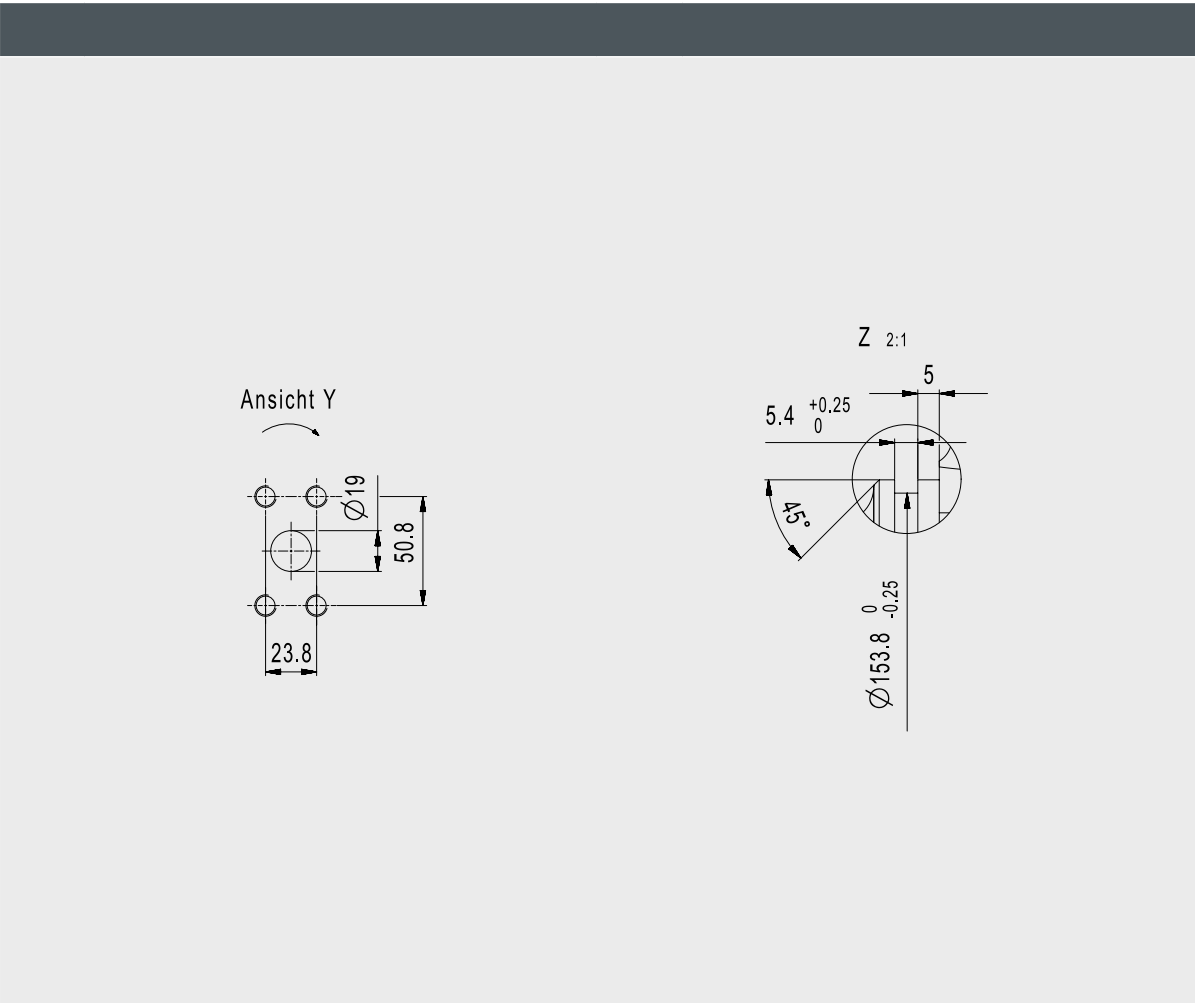
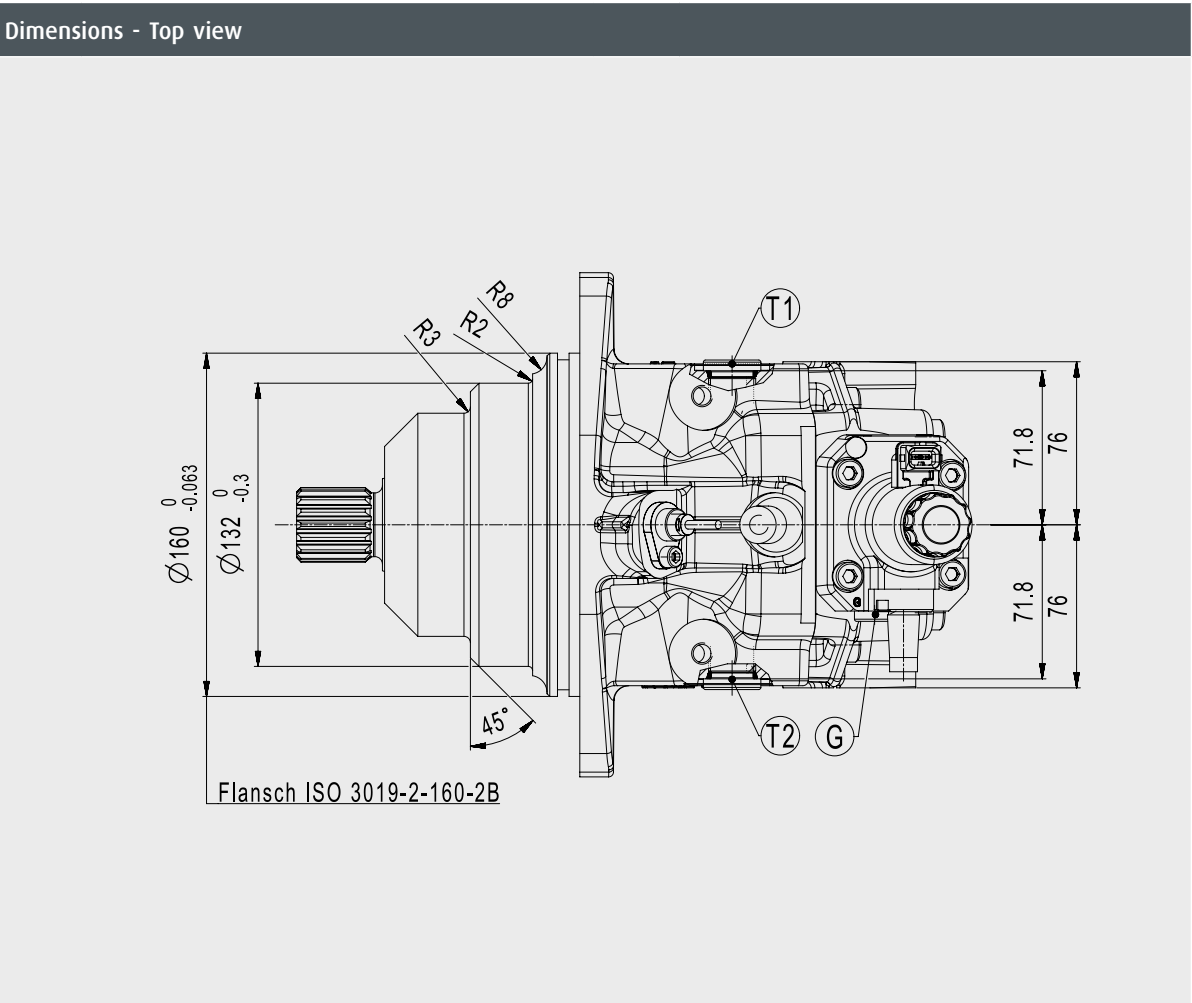
S2 / CMV 140

S2 / CMV 170

Z4 / CMV 215



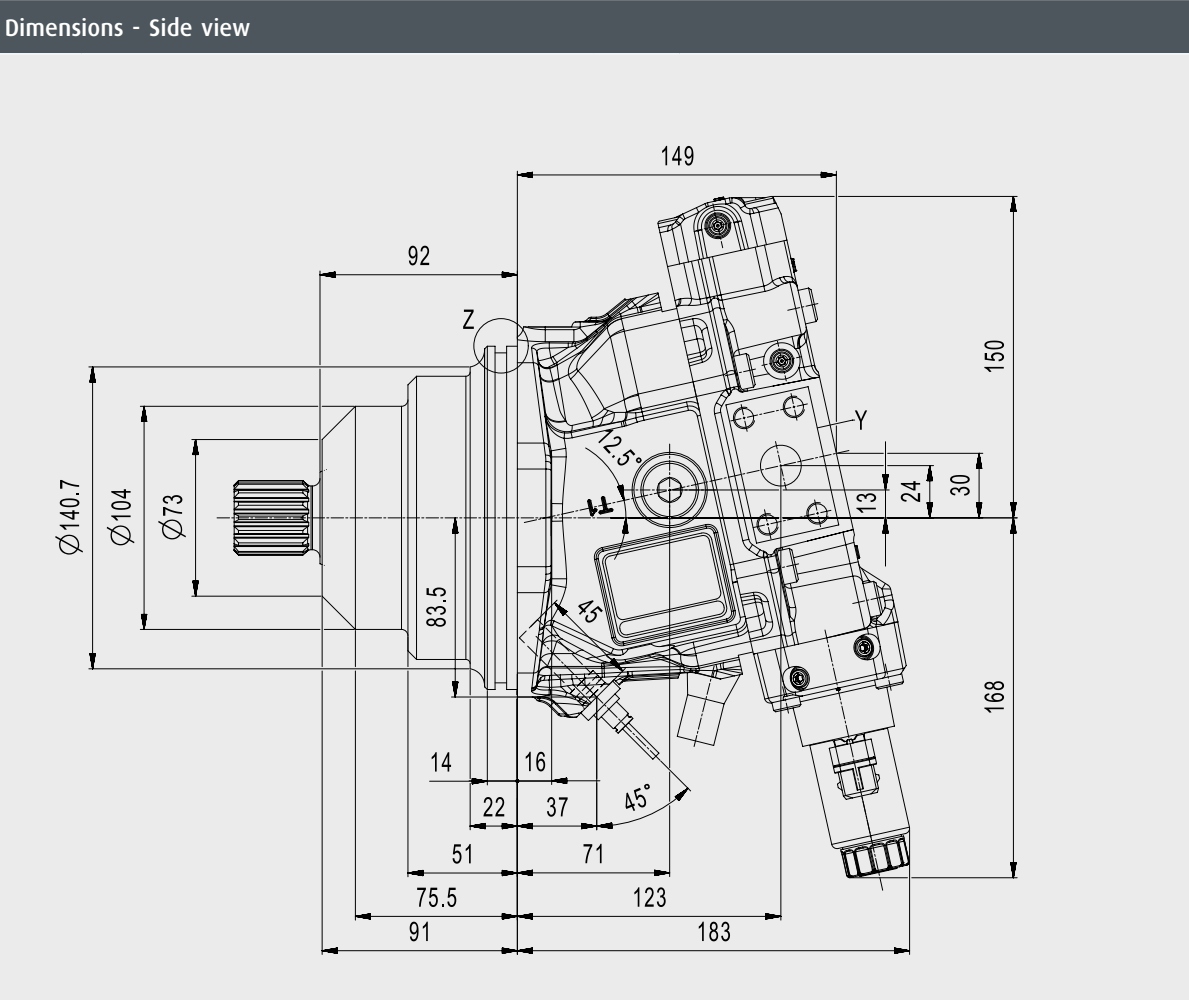
In the following you will find the technical specifications of the mounting flanges and auxiliary ports. They are clustered according to the standard and nominal sizes. First get an overview of the dimensions. Note the short designations such as „C4“ or „E4“. In the section [Model Code & Availability] you can then check the availability of the mounting flange as well as auxiliary ports and compile your desired configuration using the short designations as a segment of the model code.



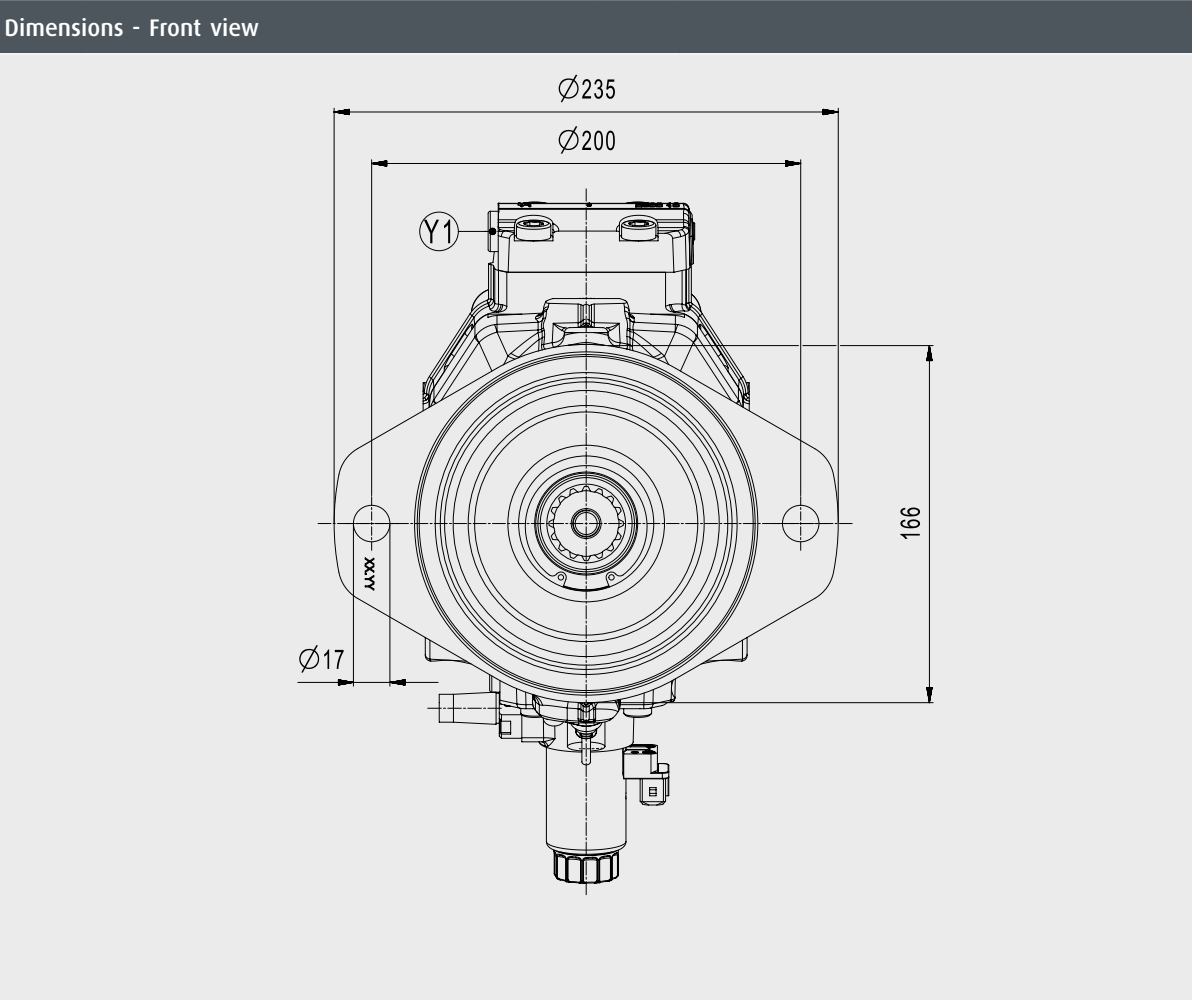
A	High pressure work port, ISO 6162-2, If pressurised - motor runs clockwise Nom. pres.: 450 bar, max. press.: 500 bar	AX	Pressure equalization port
		BX	
B	High pressure work port, ISO 6162-2, If pressurised - motor runs counter-clockwise Nom. pres.: 450 bar, max. press.: 500 bar	T1	Drain / vent port, ISO 6149
		T2	Drain / vent port, ISO 6149

G	Ext. control pressure supply, ISO 6149		
U	Bearing flush port, ISO 6149		
Y1	Measuring port, ISO 6149		

In the following you will find the technical specifications of the mounting flanges and auxiliary ports. They are clustered according to the standard and nominal sizes. First get an overview of the dimensions. Note the short designations such as „C4“ or „E4“. In the section [Model Code & Availability] you can then check the availability of the mounting flange as well as auxiliary ports and compile your desired configuration using the short designations as a segment of the model code.



A	High pressure work port, ISO 6162-2, If pressurised - motor runs clockwise Nom. pres.: 450 bar, max. press.: 500 bar	AX	Pressure equalization port
		BX	
B	High pressure work port, ISO 6162-2, If pressurised - motor runs counter-clockwise Nom. pres.: 450 bar, max. press.: 500 bar	T1	Drain / vent port, ISO 6149
		T2	Drain / vent port, ISO 6149



G	Ext. control pressure supply, ISO 6149		
U	Bearing flush port, ISO 6149		
Y1	Measuring port, ISO 6149		



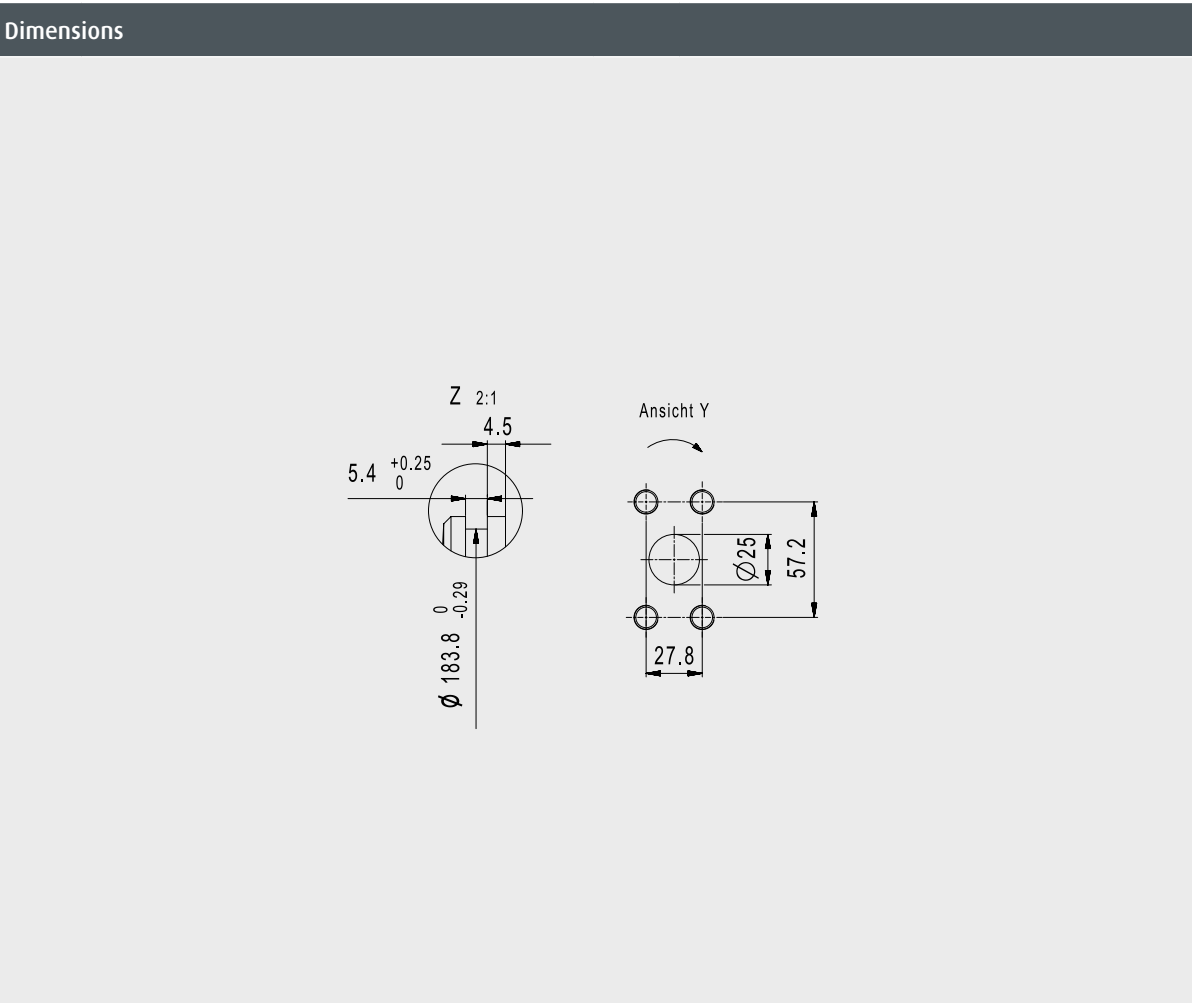
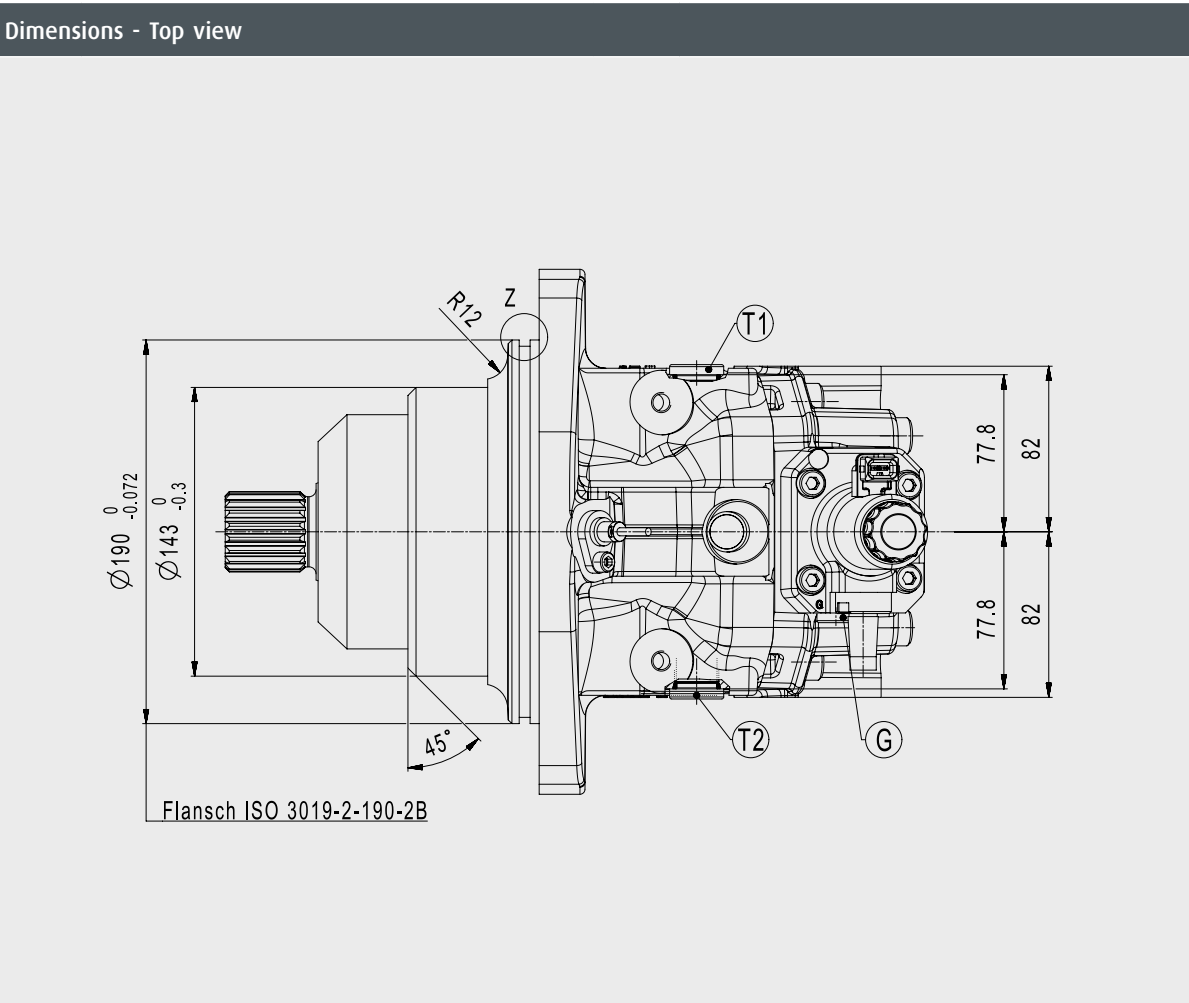
Technical Specification |

Mounting Flanges
Auxiliary Ports

| Plug-in, similar to ISO 3019-2 |

Y2/CMV85

In the following you will find the technical specifications of the mounting flanges and auxiliary ports. They are clustered according to the standard and nominal sizes. First get an overview of the dimensions. Note the short designations such as „C4“ or „E4“. In the section [Model Code & Availability] you can then check the availability of the mounting flange as well as auxiliary ports and compile your desired configuration using the short designations as a segment of the model code.



A	High pressure work port, ISO 6162-2, SAE 1" If pressurised - motor runs clockwise Nom. pres.: 450 bar, max. press.: 500 bar	AX	Pressure equalization port
		BX	
B	High pressure work port, ISO 6162-2, SAE 1" If pressurised - motor runs counter-clockwise Nom. pres.: 450 bar, max. press.: 500 bar	T1	Drain / vent port, ISO 6149, M22x1.5, 15.5 mm deep
		T2	Drain / vent port, ISO 6149, M27x2, 19 mm deep

G	Ext. control pressure supply, ISO 6149, M14x1.5, 11.5 mm deep		
U	Bearing flush port, ISO 6149, M18x1.5, 14.5 mm deep		
Y1	Measuring port, ISO 6149, M14x1.5, 11.5 mm deep		

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Functions/Options

ISO 3019-1/
SAE J744

C4 / CMV 60

C2 / CMV 85

D4 / CMV 115

D4 / CMV 140

D4 / CMV 170

E4 / CMV 215

ISO 3019-2
metric

M4 / CMV 60

N4 / CMV 85

P4 / CMV 115

R4 / CMV 140

R4 / CMV 170

S4 / CMV 215

Plug-in,
similar to ISO 3019-2

P2 / CMV 60


Y2 / CMV 85

S2 / CMV 115

S2 / CMV 140

S2 / CMV 170

Z4 / CMV 215



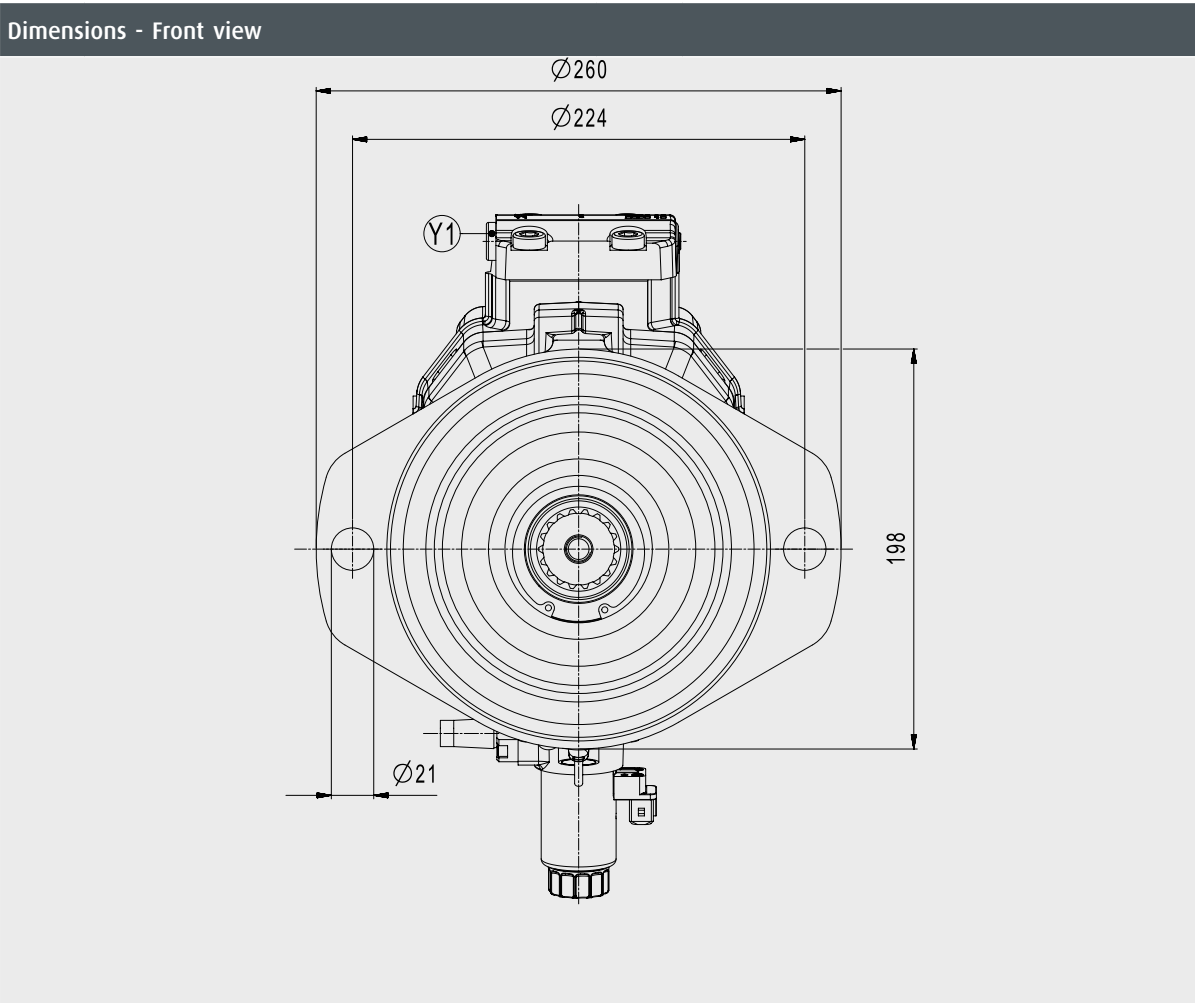
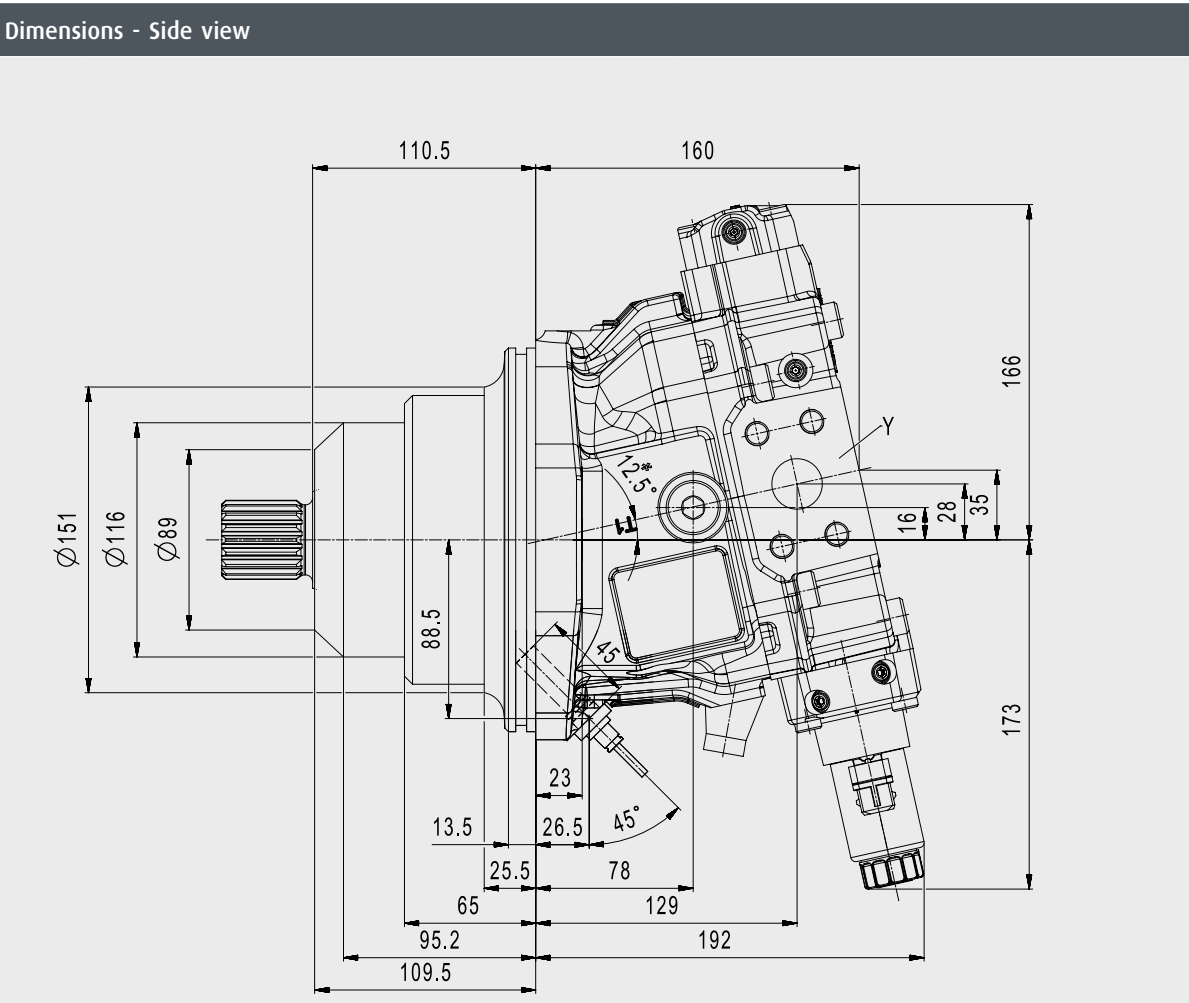
Technical Specification |

Mounting Flanges
Auxiliary Ports

| Plug-in, similar to ISO 3019-2 |

Y2/CMV85

In the following you will find the technical specifications of the mounting flanges and auxiliary ports. They are clustered according to the standard and nominal sizes. First get an overview of the dimensions. Note the short designations such as „C4“ or „E4“. In the section [Model Code & Availability] you can then check the availability of the mounting flange as well as auxiliary ports and compile your desired configuration using the short designations as a segment of the model code.



A	High pressure work port, ISO 6162-2, SAE 1" If pressurised - motor runs clockwise Nom. pres.: 450 bar, max. press.: 500 bar	AX	Pressure equalization port
		BX	
B	High pressure work port, ISO 6162-2, SAE 1" If pressurised - motor runs counter-clockwise Nom. pres.: 450 bar, max. press.: 500 bar	T1	Drain / vent port, ISO 6149, M22x1.5, 15.5 mm deep
		T2	Drain / vent port, ISO 6149, M27x2, 19 mm deep

G	Ext. control pressure supply, ISO 6149, M14x1.5, 11.5 mm deep	
U	Bearing flush port, ISO 6149, M18x1.5, 14.5 mm deep	
Y1	Measuring port, ISO 6149, M14x1.5, 11.5 mm deep	



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ISO 3019-1/
SAE J744

C4 / CMV 60

C2 / CMV 85

D4 / CMV 115

D4 / CMV 140

D4 / CMV 170

E4 / CMV 215

ISO 3019-2
metric

M4 / CMV 60

N4 / CMV 85

P4 / CMV 115

R4 / CMV 140

R4 / CMV 170

S4 / CMV 215

Plug-in,
similar to ISO 3019-2

P2 / CMV 60


Y2 / CMV 85

S2 / CMV 115

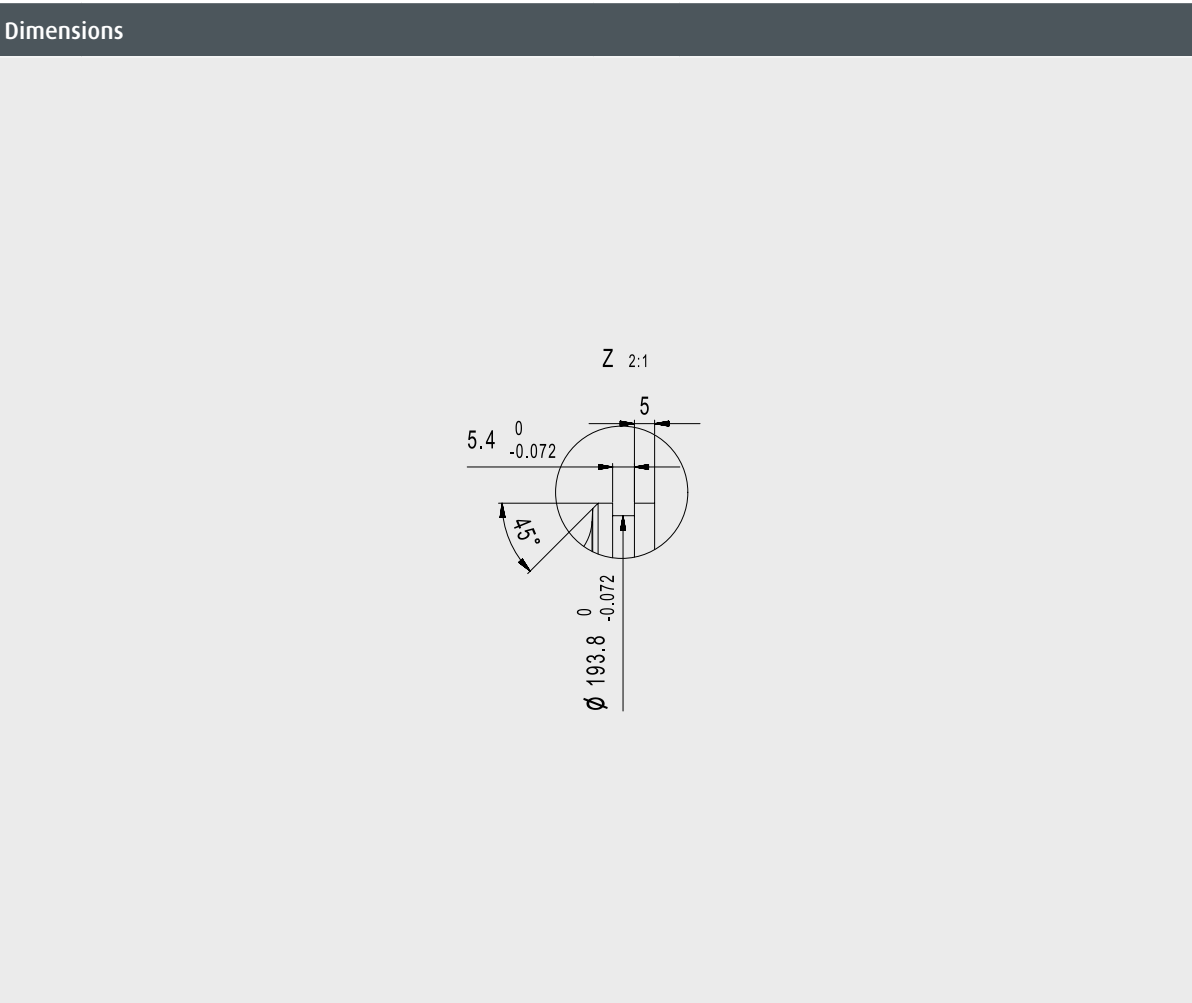
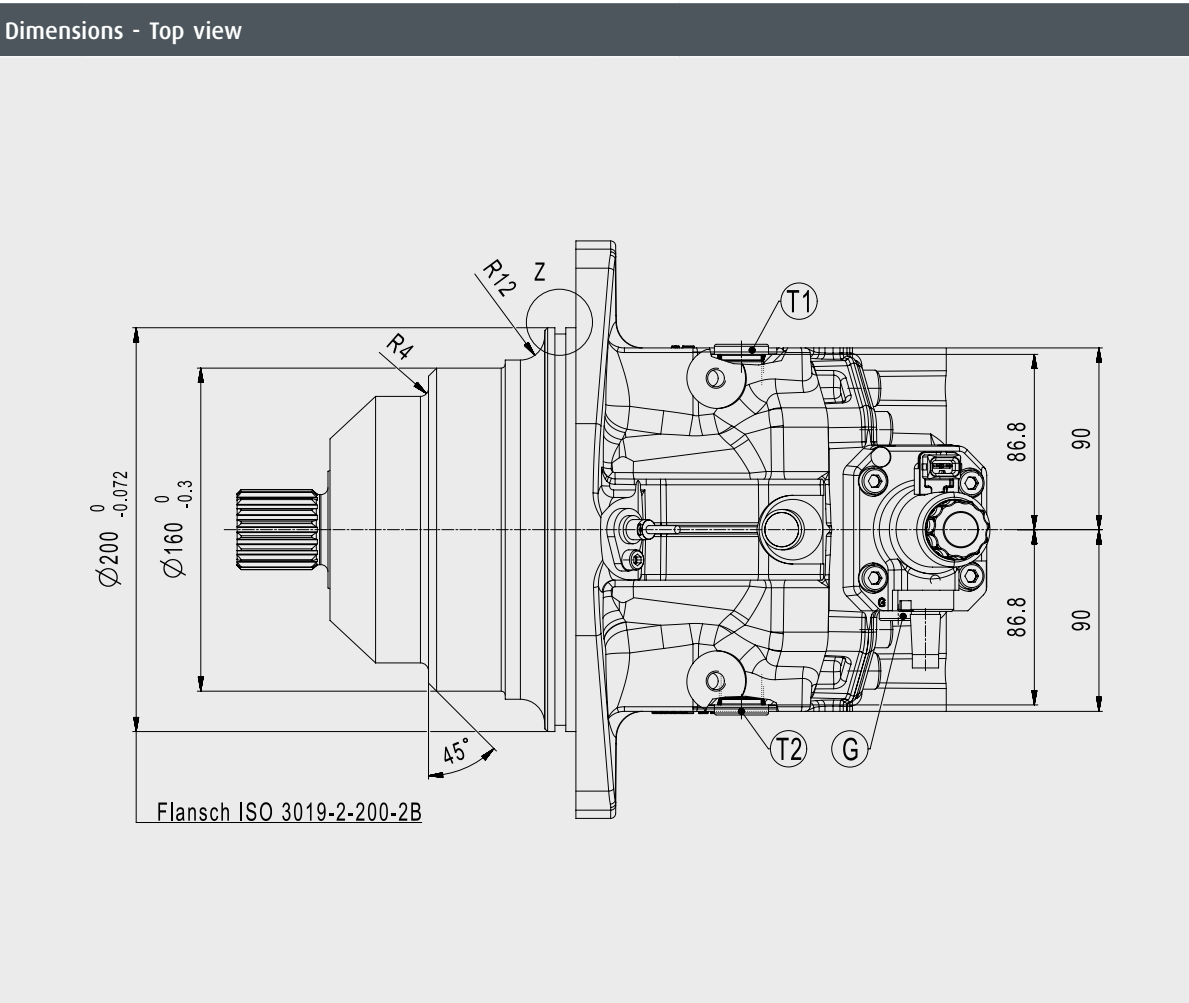
S2 / CMV 140

S2 / CMV 170

Z4 / CMV 215



In the following you will find the technical specifications of the mounting flanges and auxiliary ports. They are clustered according to the standard and nominal sizes. First get an overview of the dimensions. Note the short designations such as „C4“ or „E4“. In the section [Model Code & Availability] you can then check the availability of the mounting flange as well as auxiliary ports and compile your desired configuration using the short designations as a segment of the model code.



A	High pressure work port, ISO 6162-2, SAE 1" If pressurised - motor runs clockwise Nom. pres.: 450 bar, max. press.: 500 bar	AX	Pressure equalization port
		BX	
B	High pressure work port, ISO 6162-2, SAE 1" If pressurised - motor runs counter-clockwise Nom. pres.: 450 bar, max. press.: 500 bar	T1	Drain / vent port, ISO 6149, M27x2, 19 mm deep
		T2	Drain / vent port, ISO 6149, M33x2, 19 mm deep

G	Ext. control pressure supply, ISO 6149, M14x1.5, 11.5 mm deep		
U	Bearing flush port, ISO 6149, M18x1.5, 14.5 mm deep		
Y1	Measuring port, ISO 6149, M14x1.5, 11.5 mm deep		

Technical Specification | Mounting Flanges
Auxiliary Ports | Plug-in, similar to ISO 3019-2 | **S2/CMV140**

In the following you will find the technical specifications of the mounting flanges and auxiliary ports. They are clustered according to the standard and nominal sizes. First get an overview of the dimensions. Note the short designations such as „C4“ or „E4“. In the section [Model Code & Availability] you can then check the availability of the mounting flange as well as auxiliary ports and compile your desired configuration using the short designations as a segment of the model code.

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Functions/Options

ISO 3019-1/
SAE J744

C4 / CMV 60

C2 / CMV 85

D4 / CMV 115

D4 / CMV 140

D4 / CMV 170

E4 / CMV 215

ISO 3019-2
metric

M4 / CMV 60

N4 / CMV 85

P4 / CMV 115

R4 / CMV 140

R4 / CMV 170

S4 / CMV 215

Plug-in,
similar to ISO 3019-2

P2 / CMV 60

Y2 / CMV 85

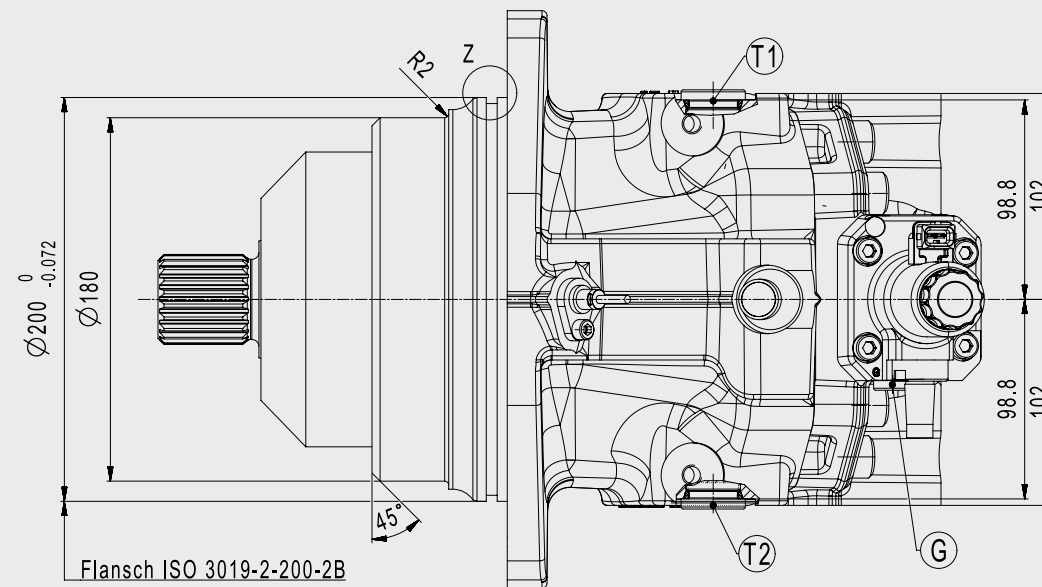
S2 / CMV 115

S2 / CMV 140

S2 / CMV 170

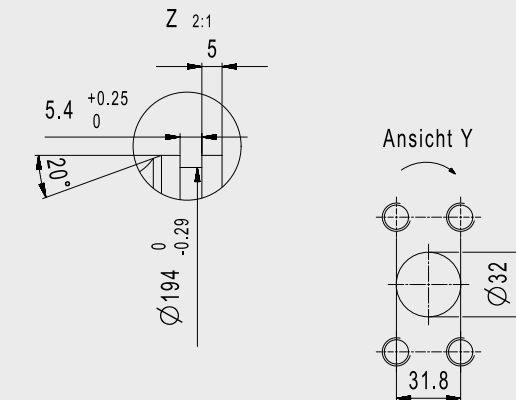
Z4 / CMV 215

Dimensions - Top view



A	High pressure work port, ISO 6162-2, SAE 1 1/4" If pressurised - motor runs clockwise Nom. pres.: 450 bar, max. press.: 500 bar	AX	Pressure equalization port
		BX	
B	High pressure work port, ISO 6162-2, SAE 1 1/4" If pressurised - motor runs counter-clockwise Nom. pres.: 450 bar, max. press.: 500 bar	T1	Drain / vent port, ISO 6149, M27x2, 19 mm deep
		T2	Drain / vent port, ISO 6149, M33x2, 19 mm deep

Dimensions



G	Ext. control pressure supply, ISO 6149, M14x1.5, 11.5 mm deep		
U	Bearing flush port, ISO 6149, M22x1.5, 15.5 mm deep		
Y1	Measuring port, ISO 6149, M14x1.5, 11.5 mm deep		

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Functions/Options

ISO 3019-1/
SAE J744

C4 / CMV 60

C2 / CMV 85

D4 / CMV 115

D4 / CMV 140

D4 / CMV 170

E4 / CMV 215

ISO 3019-2
metric

M4 / CMV 60

N4 / CMV 85

P4 / CMV 115

R4 / CMV 140

R4 / CMV 170

S4 / CMV 215

Plug-in,
similar to ISO 3019-2

P2 / CMV 60


Y2 / CMV 85

S2 / CMV 115

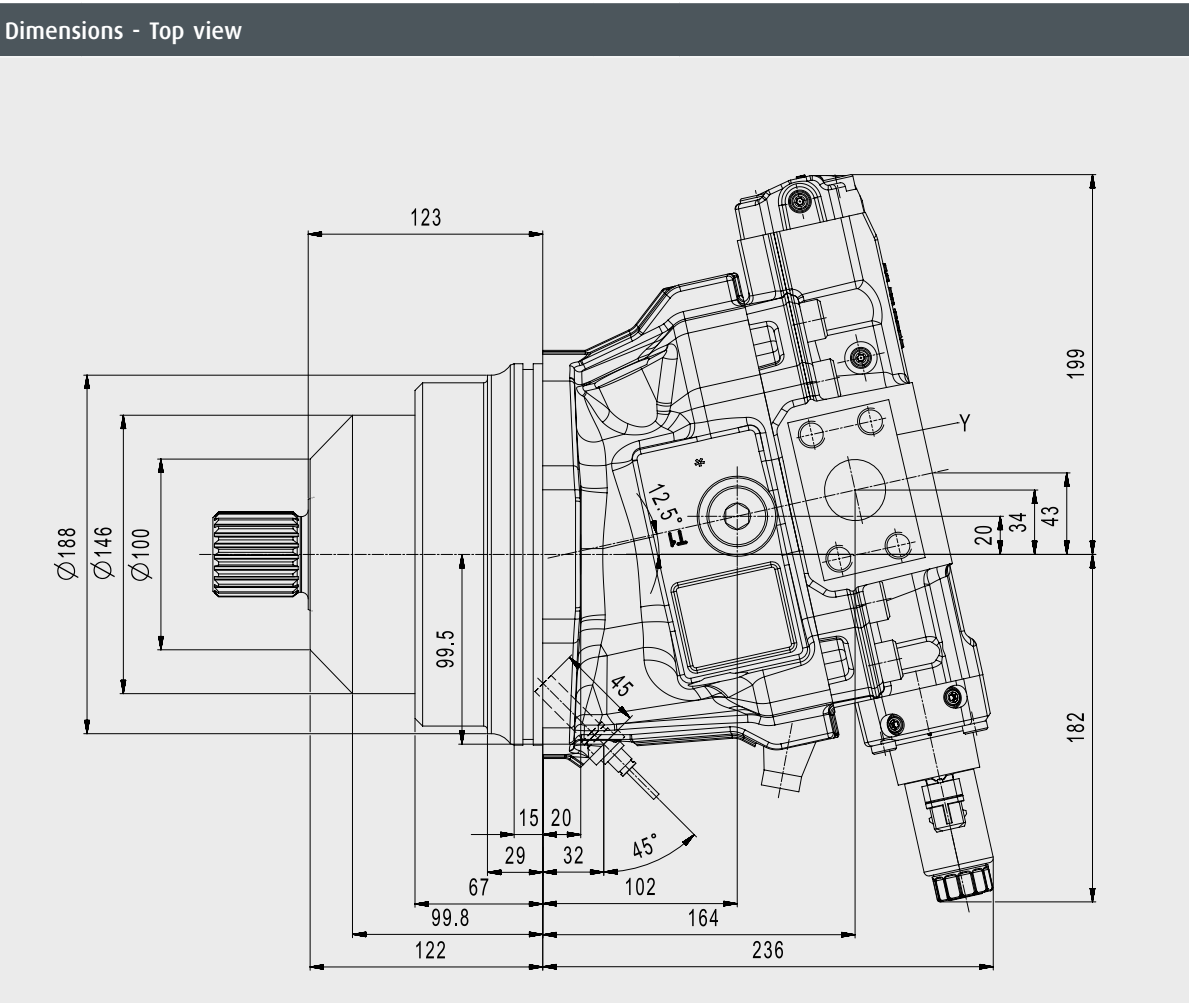
S2 / CMV 140

S2 / CMV 170

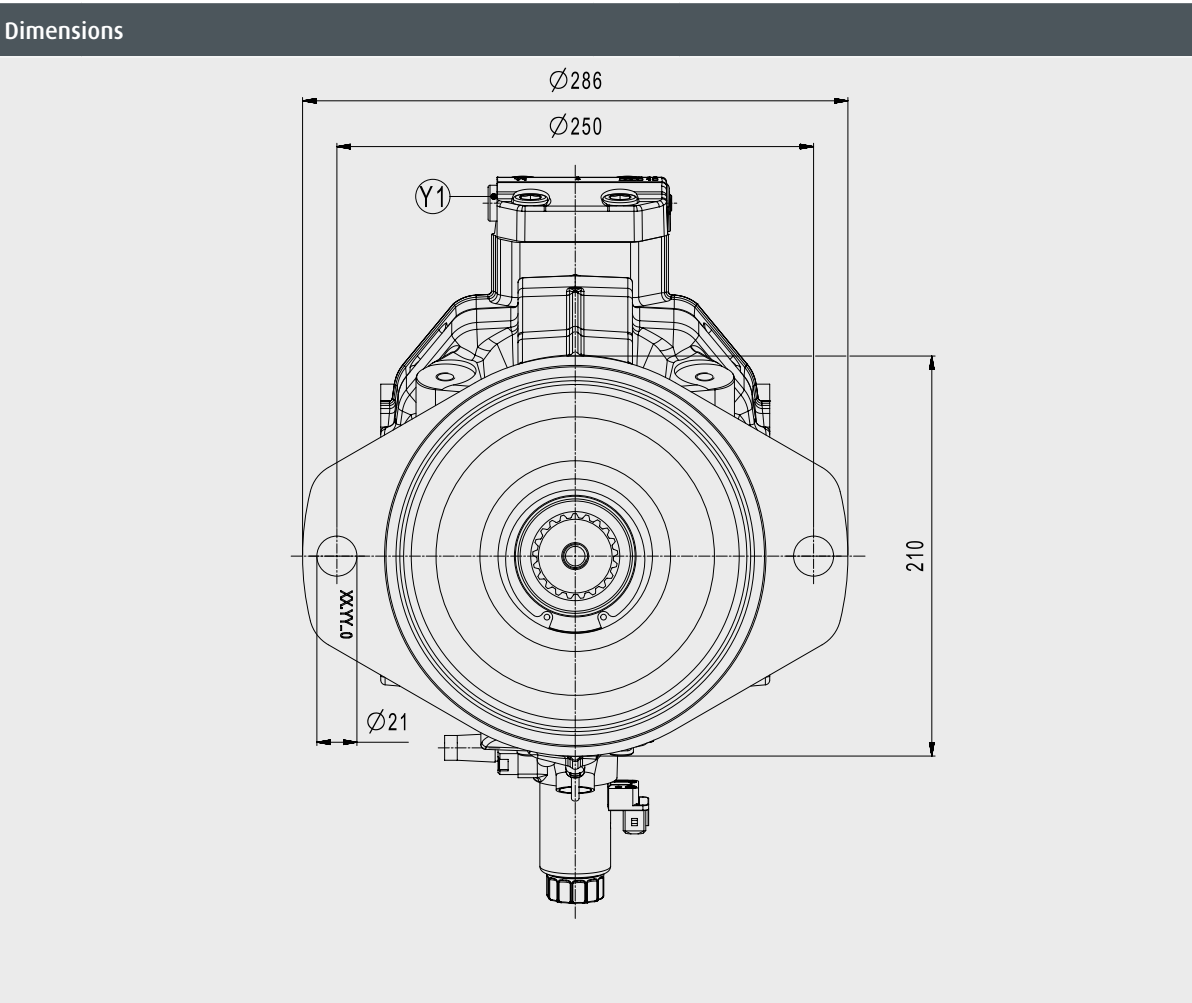
Z4 / CMV 215



In the following you will find the technical specifications of the mounting flanges and auxiliary ports. They are clustered according to the standard and nominal sizes. First get an overview of the dimensions. Note the short designations such as „C4“ or „E4“. In the section [Model Code & Availability] you can then check the availability of the mounting flange as well as auxiliary ports and compile your desired configuration using the short designations as a segment of the model code.



A	High pressure work port, ISO 6162-2, SAE 1 1/4" If pressurised - motor runs clockwise Nom. pres.: 450 bar, max. press.: 500 bar	AX	Pressure equalization port
		BX	
B	High pressure work port, ISO 6162-2, SAE 1 1/4" If pressurised - motor runs counter-clockwise Nom. pres.: 450 bar, max. press.: 500 bar	T1	Drain / vent port, ISO 6149, M27x2, 19 mm deep
		T2	Drain / vent port, ISO 6149, M33x2, 19 mm deep



G	Ext. control pressure supply, ISO 6149, M14x1.5, 11.5 mm deep		
U	Bearing flush port, ISO 6149, M22x1.5, 15.5 mm deep		
Y1	Measuring port, ISO 6149, M14x1.5, 11.5 mm deep		

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Functions/Options

ISO 3019-1/
SAE J744

C4 / CMV 60

C2 / CMV 85

D4 / CMV 115

D4 / CMV 140

D4 / CMV 170

E4 / CMV 215

ISO 3019-2
metric

M4 / CMV 60

N4 / CMV 85

P4 / CMV 115

R4 / CMV 140

R4 / CMV 170

S4 / CMV 215

Plug-in,
similar to ISO 3019-2

P2 / CMV 60


Y2 / CMV 85

S2 / CMV 115

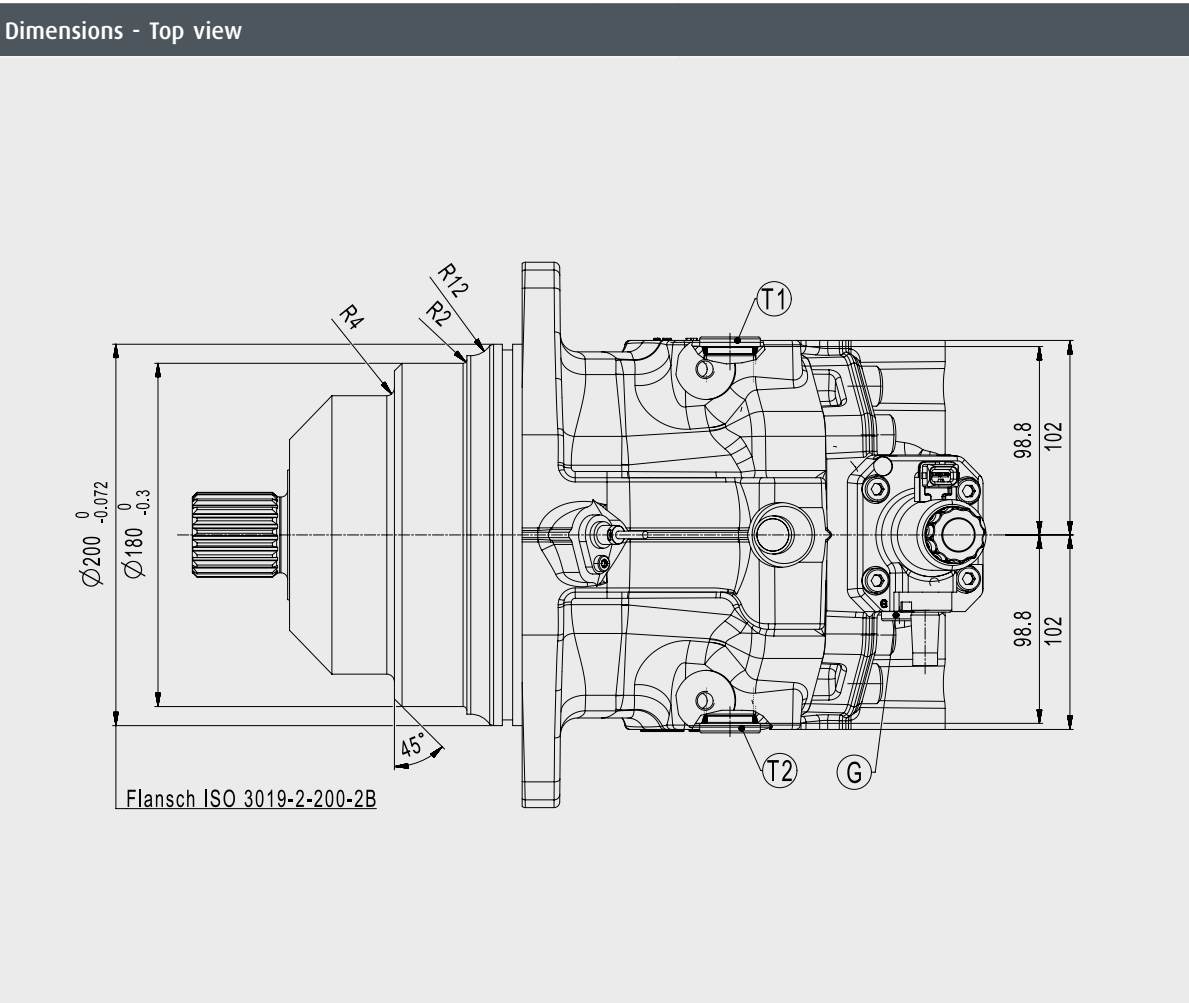
S2 / CMV 140

S2 / CMV 170

Z4 / CMV 215



In the following you will find the technical specifications of the mounting flanges and auxiliary ports. They are clustered according to the standard and nominal sizes. First get an overview of the dimensions. Note the short designations such as „C4“ or „E4“. In the section [Model Code & Availability] you can then check the availability of the mounting flange as well as auxiliary ports and compile your desired configuration using the short designations as a segment of the model code.



A	High pressure work port, ISO 6162-2, SAE 1 1/4" If pressurised - motor runs clockwise Nom. pres.: 450 bar, max. press.: 500 bar	AX	Pressure equalization port, ISO 6149, M14x1.5, 11.5 mm deep
		BX	
B	High pressure work port, ISO 6162-2, SAE 1 1/4" If pressurised - motor runs counter-clockwise Nom. pres.: 450 bar, max. press.: 500 bar	T1	Drain / vent port, ISO 6149, M27x2, 19 mm deep
		T2	Drain / vent port, ISO 6149, M33x2, 19 mm deep

G	Ext. control pressure supply, ISO 6149, M14x1.5, 11.5 mm deep		
U	Bearing flush port, ISO 6149, M22x1.5, 15.5 mm deep		
Y1	Measuring port, ISO 6149, M14x1.5, 11.5 mm deep		

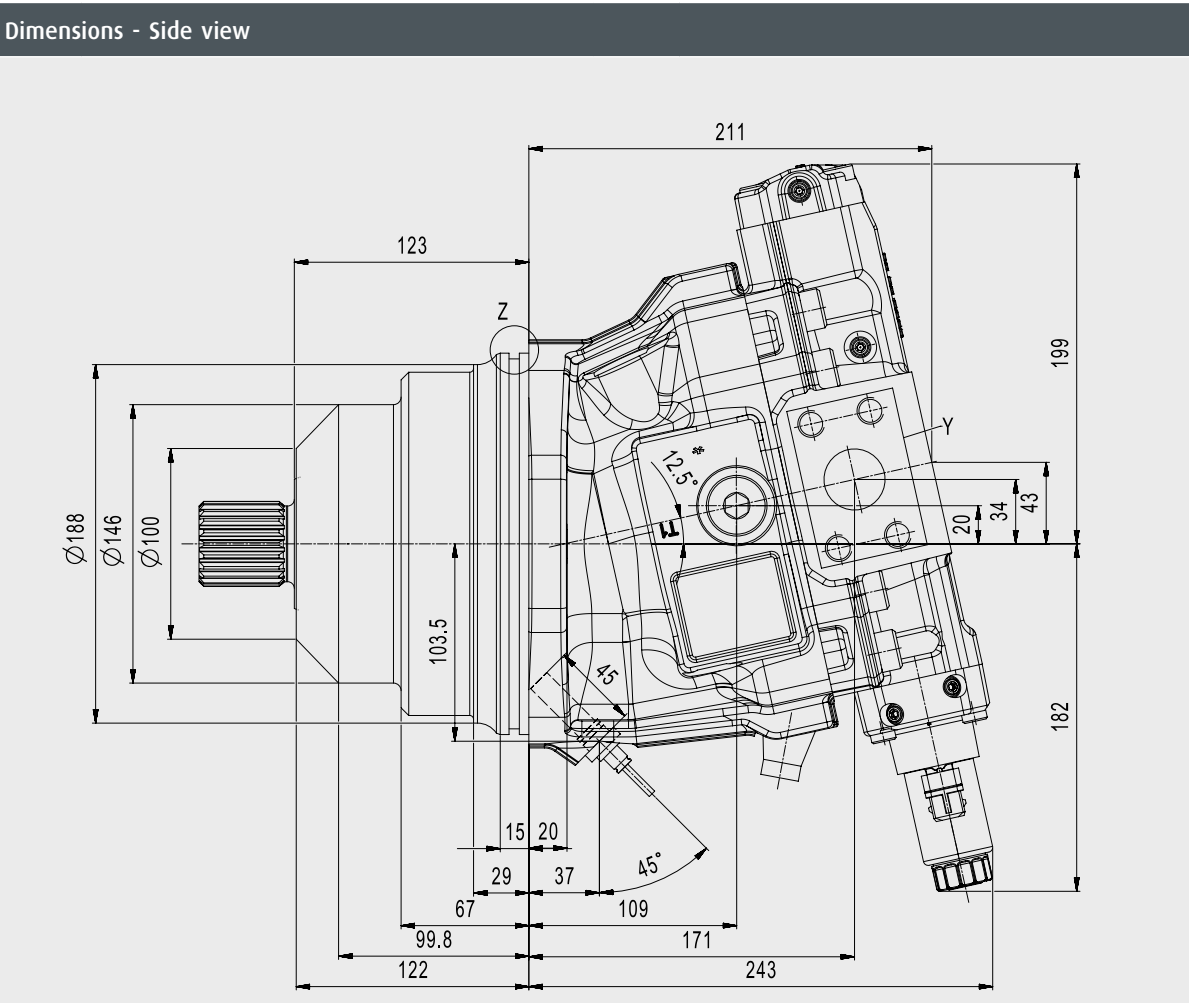
Technical Specification |

Mounting Flanges
Auxiliary Ports

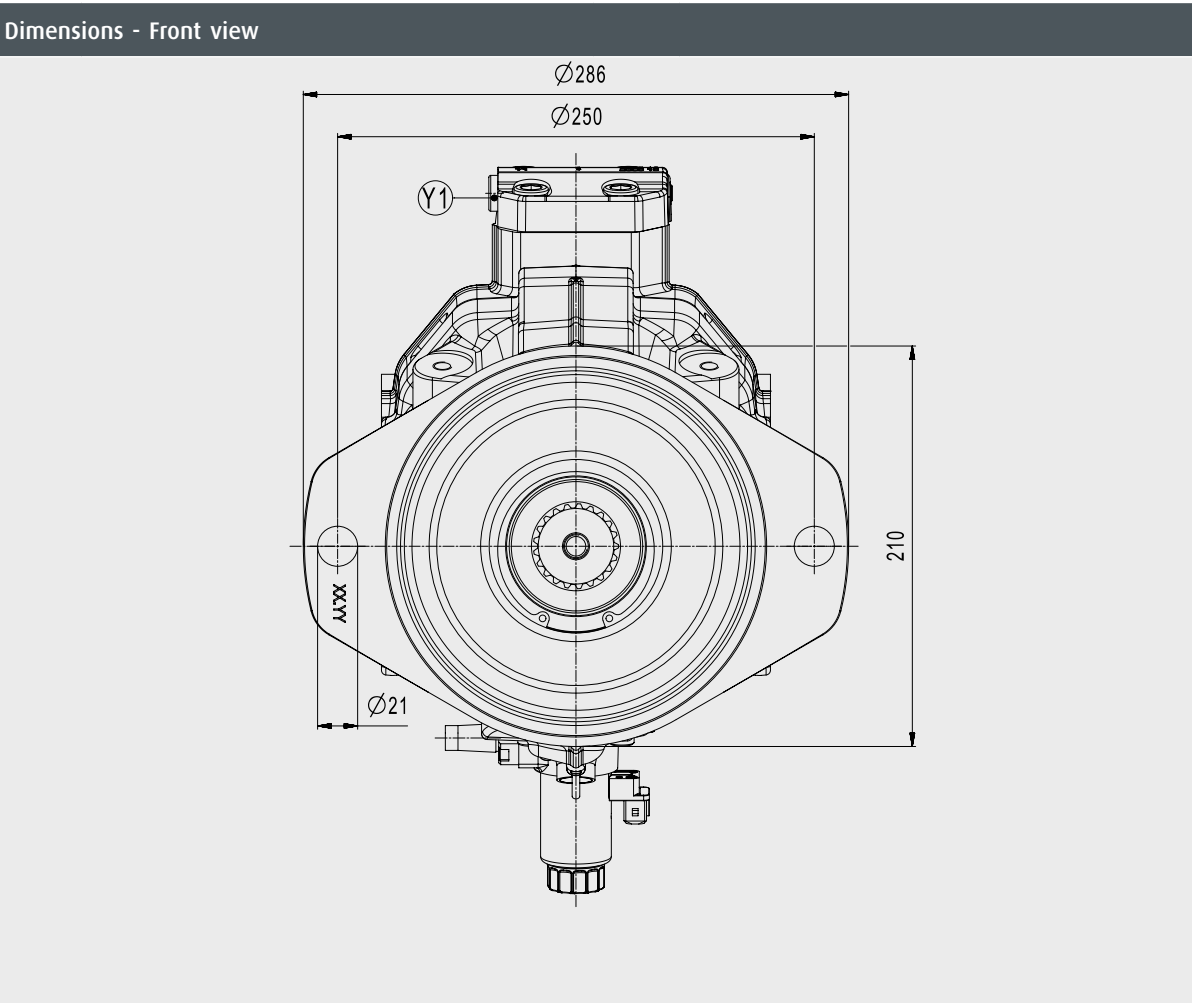
| Plug-in, similar to ISO 3019-2 |

S2/CMV170

In the following you will find the technical specifications of the mounting flanges and auxiliary ports. They are clustered according to the standard and nominal sizes. First get an overview of the dimensions. Note the short designations such as „C4“ or „E4“. In the section [Model Code & Availability] you can then check the availability of the mounting flange as well as auxiliary ports and compile your desired configuration using the short designations as a segment of the model code.



A	High pressure work port, ISO 6162-2, SAE 1 1/4" If pressurised - motor runs clockwise Nom. pres.: 450 bar, max. press.: 500 bar	AX	Pressure equalization port, ISO 6149, M14x1.5, 11.5 mm deep
		BX	
B	High pressure work port, ISO 6162-2, SAE 1 1/4" If pressurised - motor runs counter-clockwise Nom. pres.: 450 bar, max. press.: 500 bar	T1	Drain / vent port, ISO 6149, M27x2, 19 mm deep
		T2	Drain / vent port, ISO 6149, M33x2, 19 mm deep



G	Ext. control pressure supply, ISO 6149, M14x1.5, 11.5 mm deep	
U	Bearing flush port, ISO 6149, M22x1.5, 15.5 mm deep	
Y1	Measuring port, ISO 6149, M14x1.5, 11.5 mm deep	



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Functions/Options

ISO 3019-1/
SAE J744

C4 / CMV 60

C2 / CMV 85

D4 / CMV 115

D4 / CMV 140

D4 / CMV 170

E4 / CMV 215

ISO 3019-2
metric

M4 / CMV 60

N4 / CMV 85

P4 / CMV 115

R4 / CMV 140

R4 / CMV 170

S4 / CMV 215

Plug-in,
similar to ISO 3019-2

P2 / CMV 60


Y2 / CMV 85

S2 / CMV 115

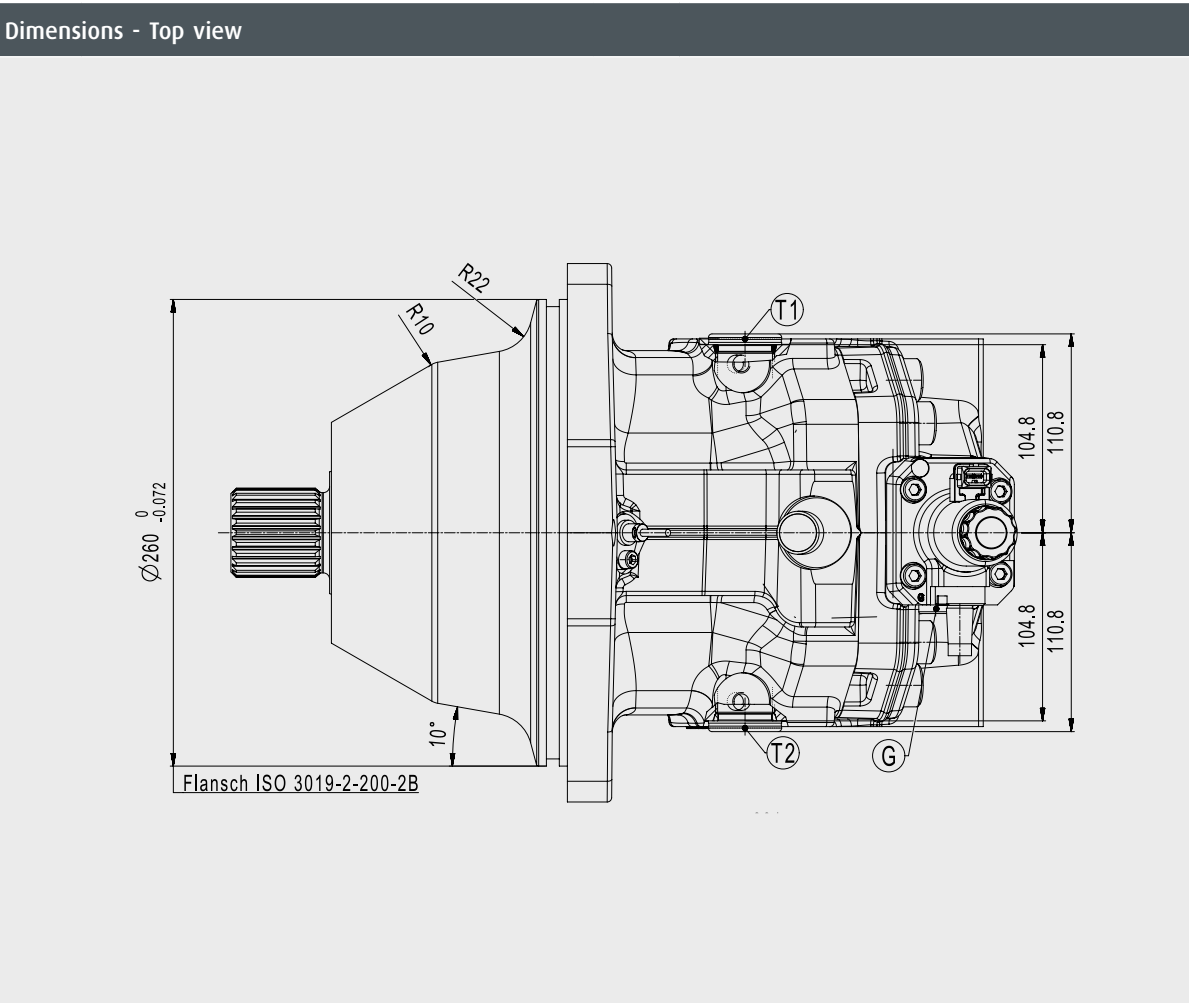
S2 / CMV 140

S2 / CMV 170

Z4 / CMV 215



In the following you will find the technical specifications of the mounting flanges and auxiliary ports. They are clustered according to the standard and nominal sizes. First get an overview of the dimensions. Note the short designations such as „C4“ or „E4“. In the section [Model Code & Availability] you can then check the availability of the mounting flange as well as auxiliary ports and compile your desired configuration using the short designations as a segment of the model code.



A	High pressure work port, ISO 6162-2, SAE 1 1/4" If pressurised - motor runs clockwise Nom. pres.: 450 bar, max. press.: 500 bar	AX	Pressure equalization port, ISO 6149, M22x1.5, 15.5 mm deep
		BX	
B	High pressure work port, ISO 6162-2, SAE 1 1/4" If pressurised - motor runs counter-clockwise Nom. pres.: 450 bar, max. press.: 500 bar	T1	Drain / vent port, ISO 6149, M33x2, 19 mm deep
		T2	Drain / vent port, ISO 6149, M42x2, 19.5 mm deep

G	Ext. control pressure supply, ISO 6149, M14x1.5, 11.5 mm deep		
U	Bearing flush port, ISO 6149, M22x1.5, 15.5 mm deep		
Y1	Measuring port, ISO 6149, M14x1.5, 11.5 mm deep		

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Functions/Options

ISO 3019-1/
SAE J744

C4 / CMV 60

C2 / CMV 85

D4 / CMV 115

D4 / CMV 140

D4 / CMV 170

E4 / CMV 215

ISO 3019-2
metric

M4 / CMV 60

N4 / CMV 85

P4 / CMV 115

R4 / CMV 140

R4 / CMV 170

S4 / CMV 215

Plug-in,
similar to ISO 3019-2

P2 / CMV 60


Y2 / CMV 85

S2 / CMV 115

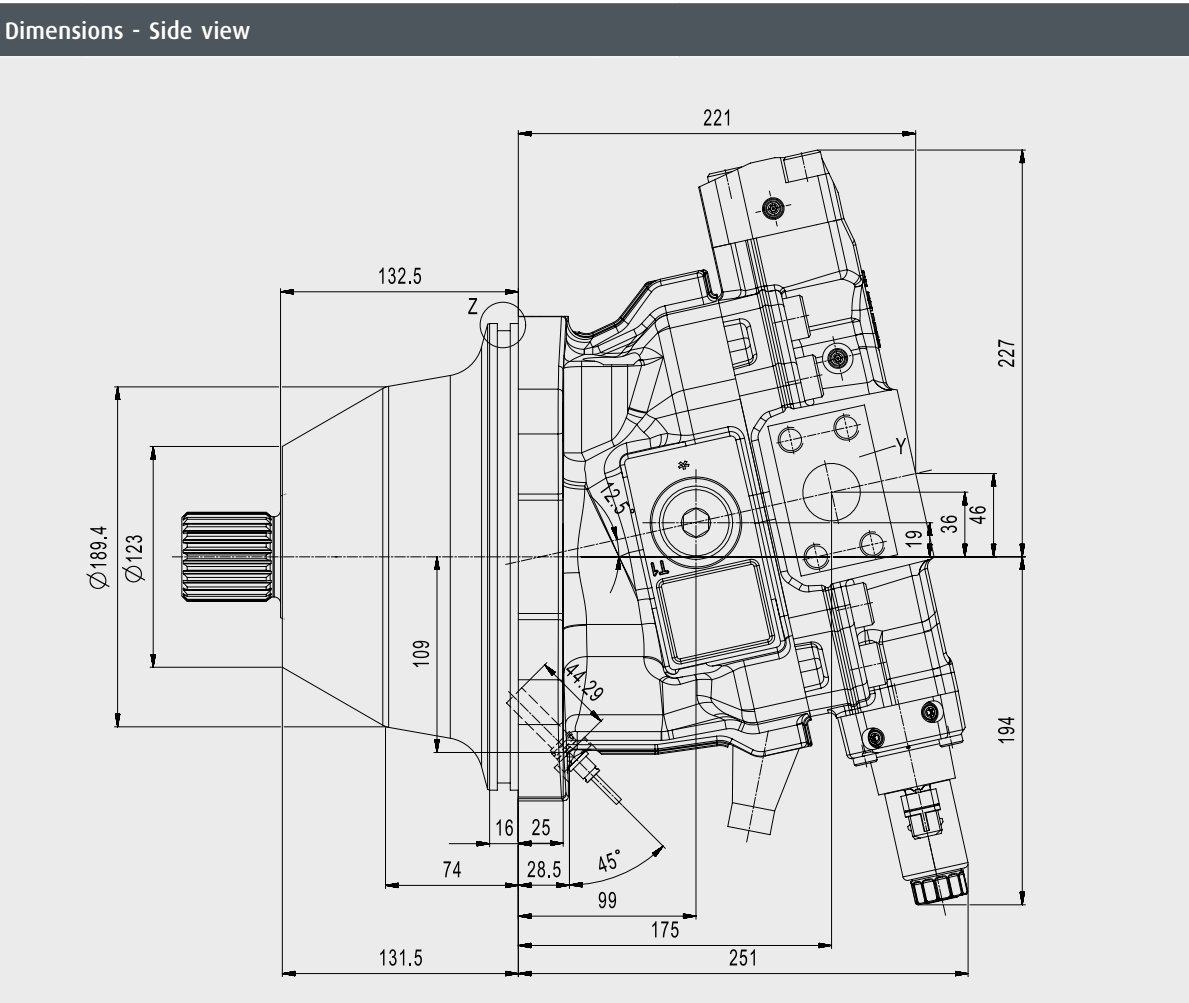
S2 / CMV 140

S2 / CMV 170

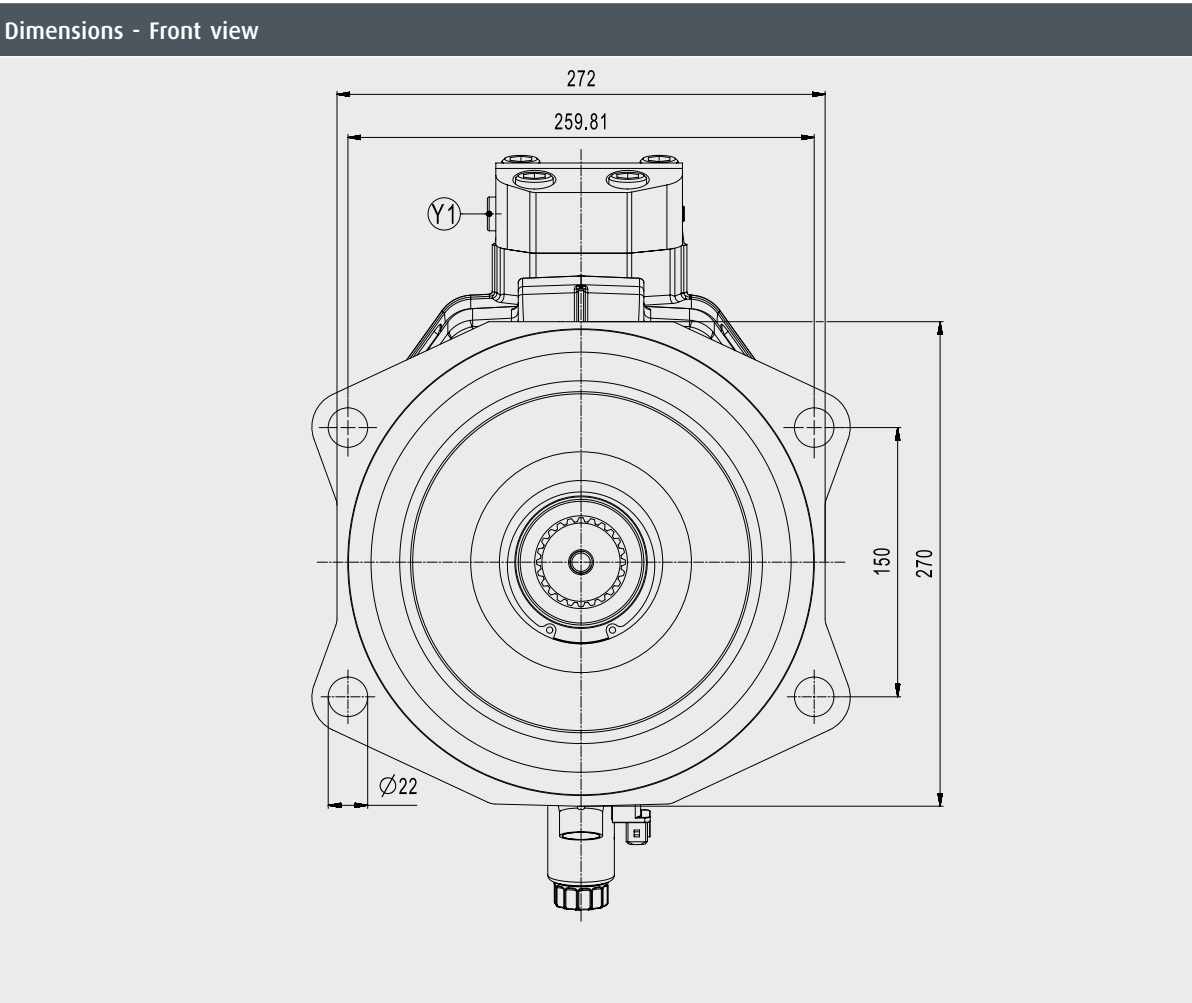
Z4 / CMV 215



In the following you will find the technical specifications of the mounting flanges and auxiliary ports. They are clustered according to the standard and nominal sizes. First get an overview of the dimensions. Note the short designations such as „C4“ or „E4“. In the section [Model Code & Availability] you can then check the availability of the mounting flange as well as auxiliary ports and compile your desired configuration using the short designations as a segment of the model code.



A	High pressure work port, ISO 6162-2, SAE 1 1/4" If pressurised - motor runs clockwise Nom. pres.: 450 bar, max. press.: 500 bar	AX	Pressure equalization port, ISO 6149, M22x1.5, 15.5 mm deep
		BX	
B	High pressure work port, ISO 6162-2, SAE 1 1/4" If pressurised - motor runs counter-clockwise Nom. pres.: 450 bar, max. press.: 500 bar	T1	Drain / vent port, ISO 6149, M33x2, 19 mm deep
		T2	Drain / vent port, ISO 6149, M42x2, 19.5 mm deep



G	Ext. control pressure supply, ISO 6149, M14x1.5, 11.5 mm deep		
U	Bearing flush port, ISO 6149, M22x1.5, 15.5 mm deep		
Y1	Measuring port, ISO 6149, M14x1.5, 11.5 mm deep		

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Functions/Options

ISO 3019-1/
SAE J744

S7 / CMV 60

S8 / CMV 85

S9 / CMV 85

V6 / CMV 85/115

V7 / CMV 140/170

T1 / CMV 115/140/170

T2 / CMV 170/215

DIN5480

D3 / CMV 60

D4 / CMV 60/85

D5 / CMV 85/115

D6 / CMV 115/140/170

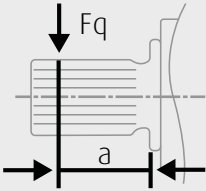
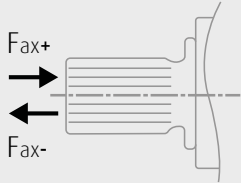
D7 / CMV 170/215

SAE J1946

F4



In the following you will find the technical specifications of the drive shafts. They are clustered according to the related mounting flange and nominal size. First get an overview of the table data showing standard and load capacity of the shafts. Beyond that you will find the dimensions of each shaft in combination with each relevant mounting flange and nominal size. Note the short designations such as „S7“ or „D3“. In the section [Model Code & Availability], you can then check the availability of the flange and auxiliary ports and compile your desired configuration using the short designations as a segment of the model code.

Specification					
Shaft end related data	Specification	Standard			
		Number of teeth			
		Spline pitch/module			
		Identification code			
Nominal size related data	Nominal size				
	Torque	Maximum torque			Nm
	Pressure	Maximum differential pressure		dpmax	bar
	Radial forces			Fpmax	N
				a	mm
	Axial forces		Motor at standstill or in rotation considering unpressurized work ports	Fax+	N
				Fax-	N
			Work ports pressurized	Fax+/p	N/bar

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ISO 3019-1/SAE J744		
14		
12/24		
32-4		
60		
400		
405		
6930		
24		
0		
500		
7.5		

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Auxiliary Ports

Functions/Options

ISO 3019-1/
SAE J744

S7 / CMV 60

S8 / CMV 85

S9 / CMV 85

V6 / CMV 85/115

V7 / CMV 140/170

T1 / CMV 115/140/170

T2 / CMV 170/215

DIN5480

D3 / CMV 60

D4 / CMV 60/85

D5 / CMV 85/115

D6 / CMV 115/140/170

D7 / CMV 170/215

SAE J1946

F4



In the following you will find the technical specifications of the drive shafts. They are clustered according to the related mounting flange and nominal size. First get an overview of the table data showing standard and load capacity of the shafts. Beyond that you will find the dimensions of each shaft in combination with each relevant mounting flange and nominal size. Note the short designations such as „S7“ or „D3“. In the section [Model Code & Availability], you can then check the availability of the flange and auxiliary ports and compile your desired configuration using the short designations as a segment of the model code.

Dimensions

E4|XX

ISO SAE

Dimensions upon request

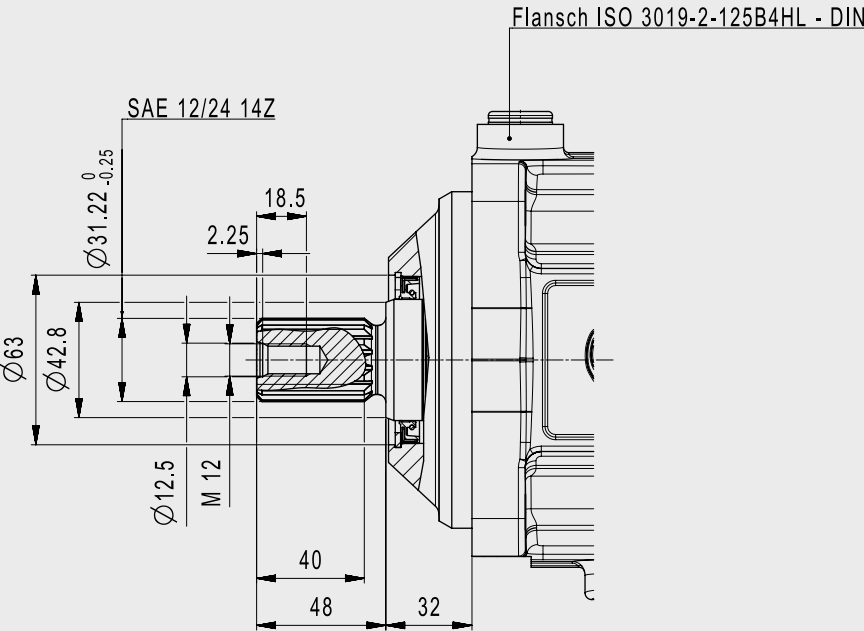
CMV60	Nominal size 60	CMV170	Nominal size 170
CMV85	Nominal size 85	CMV215	Nominal size 215
CMV115	Nominal size 115	ISO SAE	Mounting flange ISO 3019-1/ SAE J744
CMV140	Nominal size 140	ISO METR	Mounting flange ISO 3019-2 metric



Dimensions

CMV60

ISO METR



PLUG-IN	Mounting flange Plug-in, similar to ISO 3019-2		

In the following you will find the technical specifications of the drive shafts. They are clustered according to the related mounting flange and nominal size. First get an overview of the table data showing standard and load capacity of the shafts. Beyond that you will find the dimensions of each shaft in combination with each relevant mounting flange and nominal size. Note the short designations such as „S7“ or „D3“. In the section [Model Code & Availability], you can then check the availability of the flange and auxiliary ports and compile your desired configuration using the short designations as a segment of the model code.

E4|XX PLUG-IN

Dimensions
upon request

Dimensions

CMV60	Nominal size 60	CMV170	Nominal size 170
CMV85	Nominal size 85	CMV215	Nominal size 215
CMV115	Nominal size 115	ISO SAE	Mounting flange ISO 3019-1/ SAE J744
CMV140	Nominal size 140	ISO METR	Mounting flange ISO 3019-2 metric

PLUG-IN	Mounting flange Plug-in, similar to ISO 3019-2		



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Auxiliary Ports

Functions/Options

ISO 3019-1/
SAE J744

S7 / CMV 60

S8 / CMV 85

S9 / CMV 85

V6 / CMV 85/115

V7 / CMV 140/170

T1 / CMV 115/140/170

T2 / CMV 170/215

DIN5480

D3 / CMV 60

D4 / CMV 60/85

D5 / CMV 85/115

D6 / CMV 115/140/170

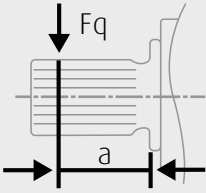
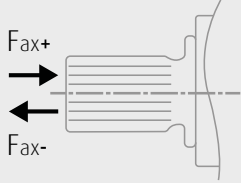
D7 / CMV 170/215

SAE J1946

F4



In the following you will find the technical specifications of the drive shafts. They are clustered according to the related mounting flange and nominal size. First get an overview of the table data showing standard and load capacity of the shafts. Beyond that you will find the dimensions of each shaft in combination with each relevant mounting flange and nominal size. Note the short designations such as „S7“ or „D3“. In the section [Model Code & Availability], you can then check the availability of the flange and auxiliary ports and compile your desired configuration using the short designations as a segment of the model code.

Specification					
Shaft end related data	Specification	Standard			
		Number of teeth			
		Spline pitch/module			
		Identification code			
Nominal size related data	Nominal size				
	Torque	Maximum torque			Nm
	Pressure	Maximum differential pressure		dpmax	bar
	Radial forces			Fpmax	N
				a	mm
	Axial forces		Motor at standstill or in rotation considering unpressurized work ports	Fax+	N
				Fax-	N
		Work ports pressurized		Fax+/p	N/bar

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ISO 3019-1/SAE J744		
21		
16/32		
35-4		
85		
628		
450		
12500		
24		
0		
710		
9.6		

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Functions/Options

ISO 3019-1/
SAE J744

S7 / CMV 60

S8 / CMV 85

S9 / CMV 85

V6 / CMV 85/115

V7 / CMV 140/170

T1 / CMV 115/140/170

T2 / CMV 170/215

DIN5480

D3 / CMV 60

D4 / CMV 60/85

D5 / CMV 85/115

D6 / CMV 115/140/170

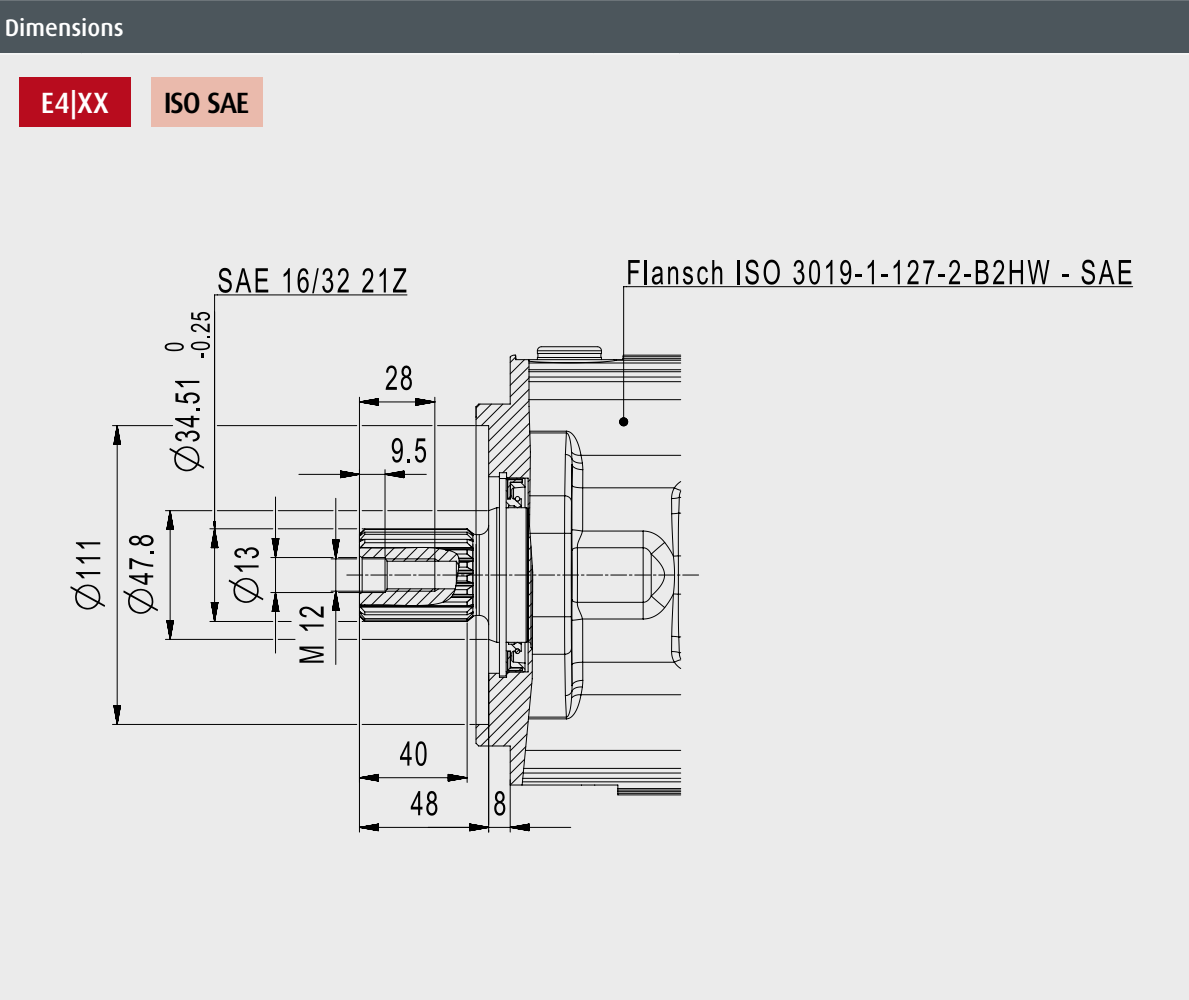
D7 / CMV 170/215

SAE J1946

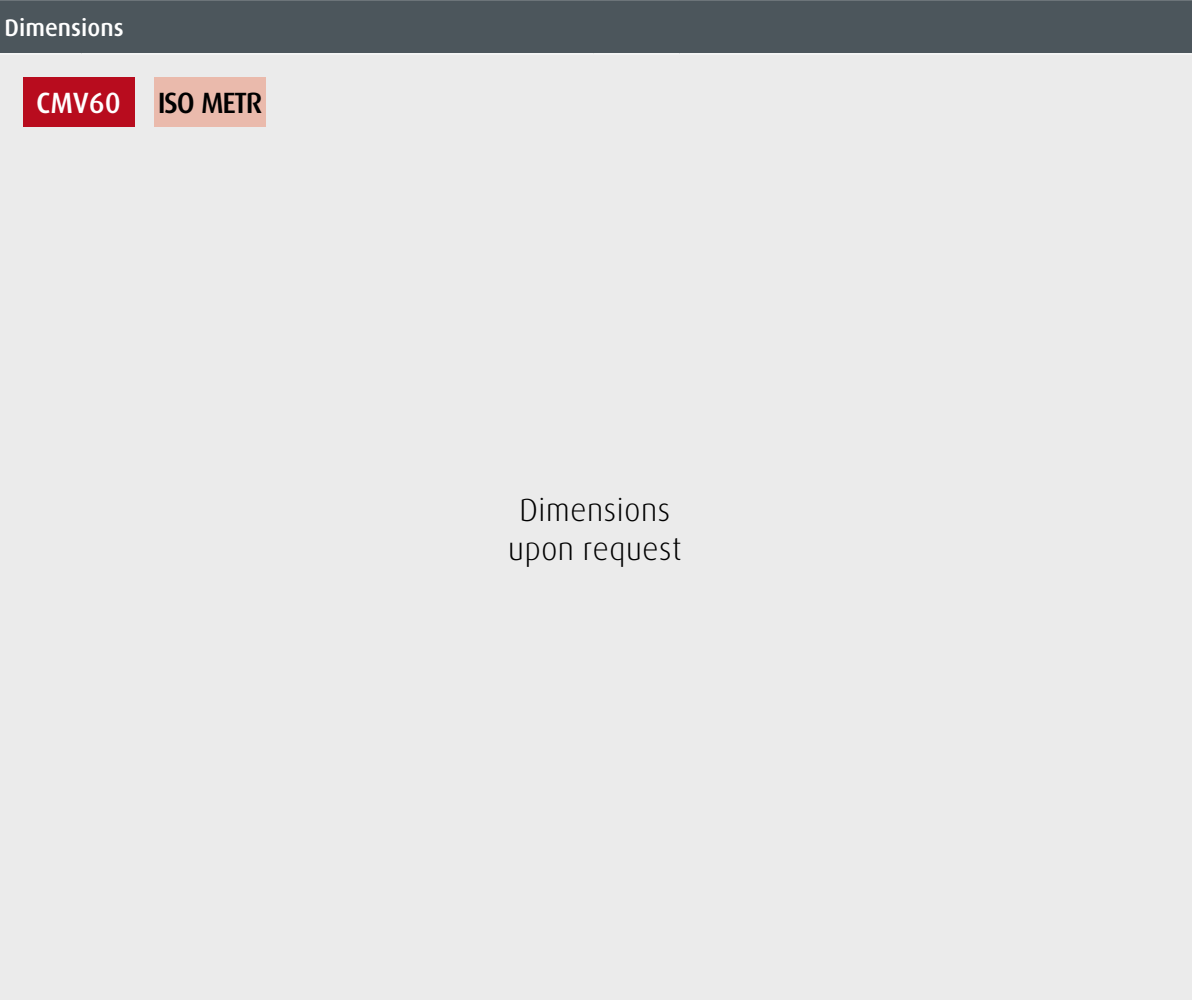
F4



In the following you will find the technical specifications of the drive shafts. They are clustered according to the related mounting flange and nominal size. First get an overview of the table data showing standard and load capacity of the shafts. Beyond that you will find the dimensions of each shaft in combination with each relevant mounting flange and nominal size. Note the short designations such as „S7“ or „D3“. In the section [Model Code & Availability], you can then check the availability of the flange and auxiliary ports and compile your desired configuration using the short designations as a segment of the model code.



CMV60	Nominal size 60	CMV170	Nominal size 170
CMV85	Nominal size 85	CMV215	Nominal size 215
CMV115	Nominal size 115	ISO SAE	Mounting flange ISO 3019-1/ SAE J744
CMV140	Nominal size 140	ISO METR	Mounting flange ISO 3019-2 metric



PLUG-IN	Mounting flange Plug-in, similar to ISO 3019-2		

In the following you will find the technical specifications of the drive shafts. They are clustered according to the related mounting flange and nominal size. First get an overview of the table data showing standard and load capacity of the shafts. Beyond that you will find the dimensions of each shaft in combination with each relevant mounting flange and nominal size. Note the short designations such as „S7“ or „D3“. In the section [Model Code & Availability], you can then check the availability of the flange and auxiliary ports and compile your desired configuration using the short designations as a segment of the model code.

CMV60	Nominal size 60	CMV170	Nominal size 170
CMV85	Nominal size 85	CMV215	Nominal size 215
CMV115	Nominal size 115	ISO SAE	Mounting flange ISO 3019-1/ SAE J744
CMV140	Nominal size 140	ISO METR	Mounting flange ISO 3019-2 metric

PLUG-IN	Mounting flange Plug-in, similar to ISO 3019-2		

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Auxiliary Ports

Functions/Options

ISO 3019-1/
SAE J744

S7 / CMV 60

S8 / CMV 85

S9 / CMV 85

V6 / CMV 85/115

V7 / CMV 140/170

T1 / CMV 115/140/170

T2 / CMV 170/215

DIN5480

D3 / CMV 60

D4 / CMV 60/85

D5 / CMV 85/115

D6 / CMV 115/140/170

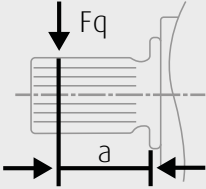
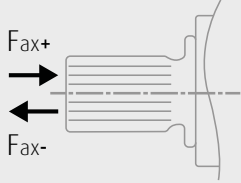
D7 / CMV 170/215

SAE J1946

F4



In the following you will find the technical specifications of the drive shafts. They are clustered according to the related mounting flange and nominal size. First get an overview of the table data showing standard and load capacity of the shafts. Beyond that you will find the dimensions of each shaft in combination with each relevant mounting flange and nominal size. Note the short designations such as „S7“ or „D3“. In the section [Model Code & Availability], you can then check the availability of the flange and auxiliary ports and compile your desired configuration using the short designations as a segment of the model code.

Specification					
Shaft end related data	Specification	Standard			
		Number of teeth			
		Spline pitch/module			
		Identification code			
Nominal size related data	Nominal size				
	Torque	Maximum torque			Nm
	Pressure	Maximum differential pressure		dpmax	bar
	Radial forces			Fpmax	N
				a	mm
	Axial forces		Motor at standstill or in rotation considering unpressurized work ports	Fax+	N
				Fax-	N
			Work ports pressurized	Fax+/p	N/bar

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ISO 3019-1/SAE J744		
17		
12/24		
38-4		
85		
600		
430		
12500		
27		
0		
710		
9.6		

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Auxiliary Ports

Functions/Options

ISO 3019-1/
SAE J744

S7 / CMV 60

S8 / CMV 85

S9 / CMV 85

V6 / CMV 85/115

V7 / CMV 140/170

T1 / CMV 115/140/170

T2 / CMV 170/215

DIN5480

D3 / CMV 60

D4 / CMV 60/85

D5 / CMV 85/115

D6 / CMV 115/140/170

D7 / CMV 170/215

SAE J1946

F4



In the following you will find the technical specifications of the drive shafts. They are clustered according to the related mounting flange and nominal size. First get an overview of the table data showing standard and load capacity of the shafts. Beyond that you will find the dimensions of each shaft in combination with each relevant mounting flange and nominal size. Note the short designations such as „S7“ or „D3“. In the section [Model Code & Availability], you can then check the availability of the flange and auxiliary ports and compile your desired configuration using the short designations as a segment of the model code.

Dimensions

E4|XX

ISO SAE

Dimensions upon request

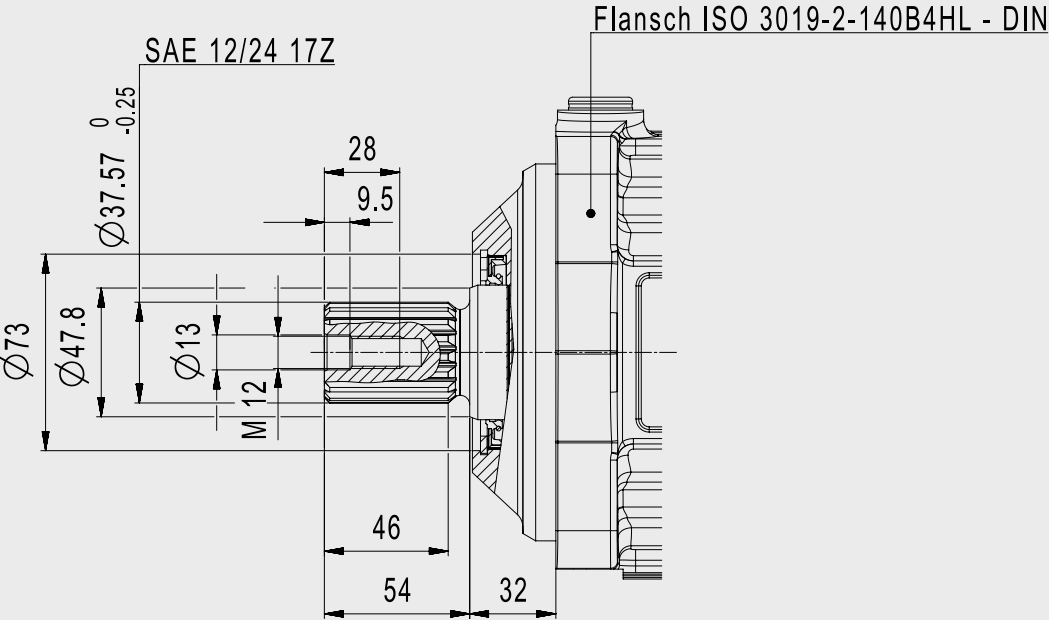
CMV60	Nominal size 60	CMV170	Nominal size 170
CMV85	Nominal size 85	CMV215	Nominal size 215
CMV115	Nominal size 115	ISO SAE	Mounting flange ISO 3019-1/ SAE J744
CMV140	Nominal size 140	ISO METR	Mounting flange ISO 3019-2 metric



Dimensions

CMV60

ISO METR



PLUG-IN	Mounting flange Plug-in, similar to ISO 3019-2		

In the following you will find the technical specifications of the drive shafts. They are clustered according to the related mounting flange and nominal size. First get an overview of the table data showing standard and load capacity of the shafts. Beyond that you will find the dimensions of each shaft in combination with each relevant mounting flange and nominal size. Note the short designations such as „S7“ or „D3“. In the section [Model Code & Availability], you can then check the availability of the flange and auxiliary ports and compile your desired configuration using the short designations as a segment of the model code.

The image shows a presentation slide with a dark blue header bar at the top. The header bar contains the word "Dimensions" in white text on the left. Below the header, there are two buttons in the top left corner: a red button with the text "E4|XX" and an orange button with the text "PLUG-IN". The main body of the slide is a light gray color. In the lower center of the slide, the text "Dimensions upon request" is displayed in a dark gray, sans-serif font.

CMV60	Nominal size 60	CMV170	Nominal size 170
CMV85	Nominal size 85	CMV215	Nominal size 215
CMV115	Nominal size 115	ISO SAE	Mounting flange ISO 3019-1/ SAE J744
CMV140	Nominal size 140	ISO METR	Mounting flange ISO 3019-2 metric

Dimensions

PLUG-IN	Mounting flange Plug-in, similar to ISO 3019-2		



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Functions/Options

ISO 3019-1/
SAE J744

S7 / CMV 60

S8 / CMV 85

S9 / CMV 85

V6 / CMV 85/115

V7 / CMV 140/170

T1 / CMV 115/140/170

T2 / CMV 170/215

DIN5480

D3 / CMV 60

D4 / CMV 60/85

D5 / CMV 85/115

D6 / CMV 115/140/170

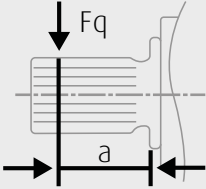
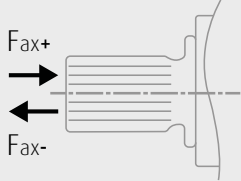
D7 / CMV 170/215

SAE J1946

F4



In the following you will find the technical specifications of the drive shafts. They are clustered according to the related mounting flange and nominal size. First get an overview of the table data showing standard and load capacity of the shafts. Beyond that you will find the dimensions of each shaft in combination with each relevant mounting flange and nominal size. Note the short designations such as „S7“ or „D3“. In the section [Model Code & Availability], you can then check the availability of the flange and auxiliary ports and compile your desired configuration using the short designations as a segment of the model code.

Specification					
Shaft end related data	Specification	Standard			
		Number of teeth			
		Spline pitch/module			
		Identification code			
Nominal size related data	Nominal size				
	Torque	Maximum torque			Nm
	Pressure	Maximum differential pressure		dpmax	bar
	Radial forces			Fpmax	N
				a	mm
	Axial forces		Motor at standstill or in rotation considering unpressurized work ports	Fax+	N
				Fax-	N
			Work ports pressurized	Fax+/p	N/bar

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ISO 3019-1/SAE J744		
23		
16/32		
38-4		
85	115	
628	578	
450	315	
12500	9450	
27	27	
0	0	
710	1000	
9.6	11	

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Functions/Options

ISO 3019-1/
SAE J744

S7 / CMV 60

S8 / CMV 85

S9 / CMV 85

V6 / CMV 85/115

V7 / CMV 140/170

T1 / CMV 115/140/170

T2 / CMV 170/215

DIN5480

D3 / CMV 60

D4 / CMV 60/85

D5 / CMV 85/115

D6 / CMV 115/140/170

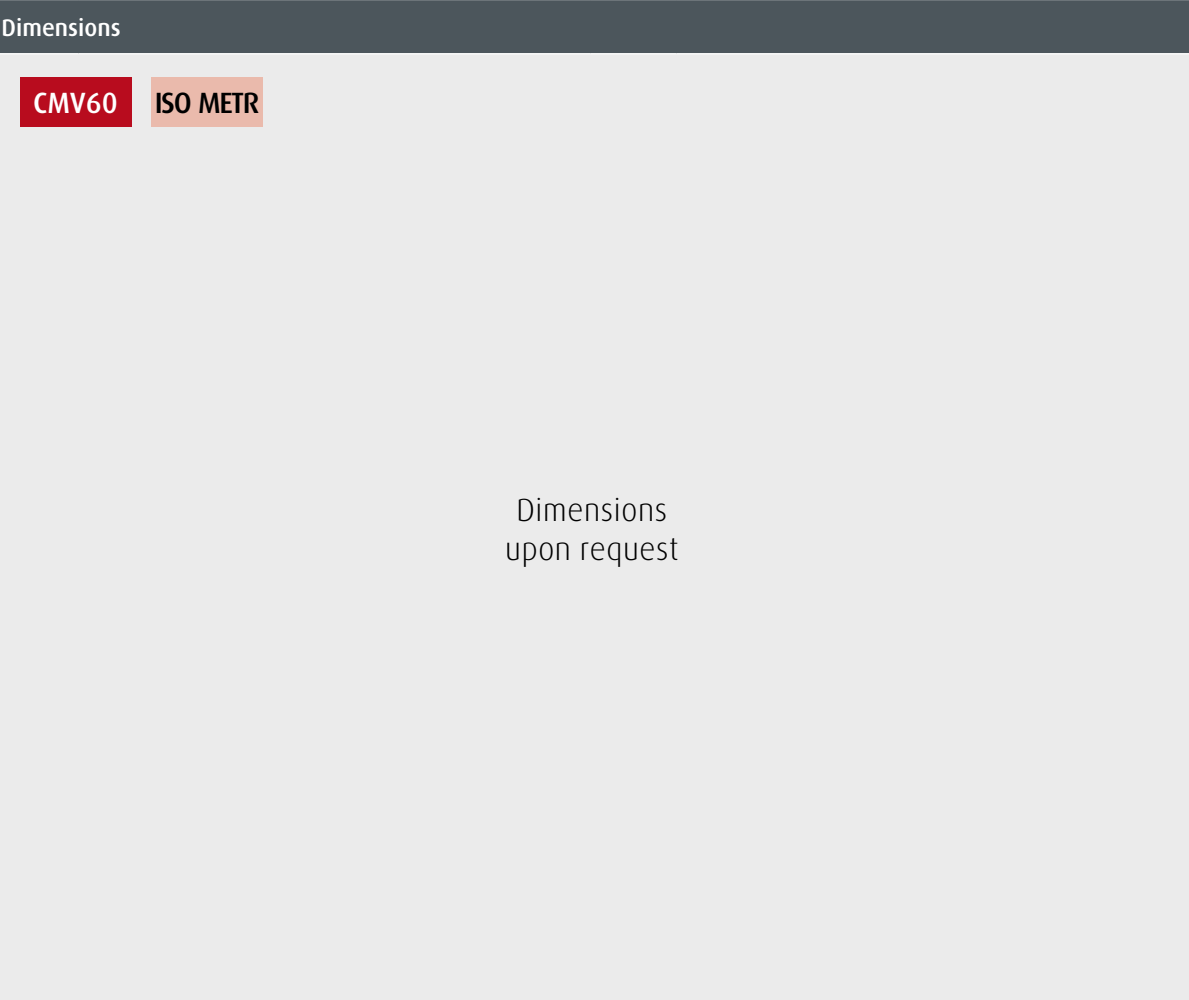
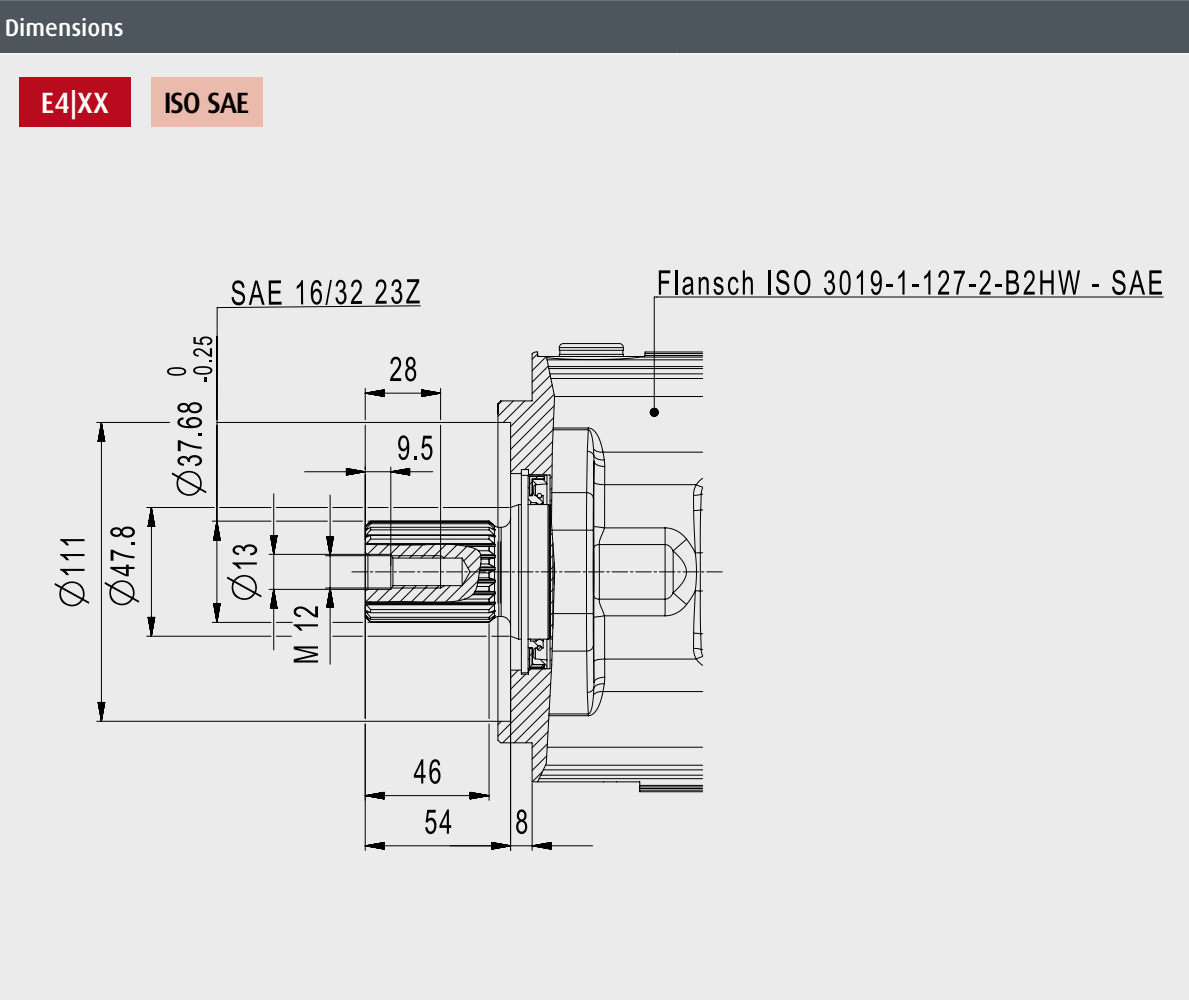
D7 / CMV 170/215

SAE J1946

F4



In the following you will find the technical specifications of the drive shafts. They are clustered according to the related mounting flange and nominal size. First get an overview of the table data showing standard and load capacity of the shafts. Beyond that you will find the dimensions of each shaft in combination with each relevant mounting flange and nominal size. Note the short designations such as „S7“ or „D3“. In the section [Model Code & Availability], you can then check the availability of the flange and auxiliary ports and compile your desired configuration using the short designations as a segment of the model code.



CMV60	Nominal size 60	CMV170	Nominal size 170
CMV85	Nominal size 85	CMV215	Nominal size 215
CMV115	Nominal size 115	ISO SAE	Mounting flange ISO 3019-1/ SAE J744
CMV140	Nominal size 140	ISO METR	Mounting flange ISO 3019-2 metric

PLUG-IN	Mounting flange Plug-in, similar to ISO 3019-2		

In the following you will find the technical specifications of the drive shafts. They are clustered according to the related mounting flange and nominal size. First get an overview of the table data showing standard and load capacity of the shafts. Beyond that you will find the dimensions of each shaft in combination with each relevant mounting flange and nominal size. Note the short designations such as „S7“ or „D3“. In the section [Model Code & Availability], you can then check the availability of the flange and auxiliary ports and compile your desired configuration using the short designations as a segment of the model code.

The image shows a presentation slide. At the top, there is a dark blue header bar with the word "Dimensions" in white text. Below the header, there are two rectangular buttons. The first button is red with the text "E4|XX" in white. The second button is light orange with the text "PLUG-IN" in black. The main body of the slide is a light gray color. In the center of this gray area, the text "Dimensions upon request" is displayed in a black, sans-serif font, arranged in two lines.

CMV60	Nominal size 60	CMV170	Nominal size 170
CMV85	Nominal size 85	CMV215	Nominal size 215
CMV115	Nominal size 115	ISO SAE	Mounting flange ISO 3019-1/ SAE J744
CMV140	Nominal size 140	ISO METR	Mounting flange ISO 3019-2 metric

The image shows a dark gray horizontal bar at the top of a page. On the left side of this bar, the word "Dimensions" is written in a white, sans-serif font. The rest of the bar and the area below it are a uniform light gray color.

PLUG-IN	Mounting flange Plug-in, similar to ISO 3019-2		



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Work Ports

Auxiliary Ports

Functions/Options

ISO 3019-1/
SAE J744

S7 / CMV 60

S8 / CMV 85

S9 / CMV 85

V6 / CMV 85/115

V7 / CMV 140/170

T1 / CMV 115/140/170

T2 / CMV 170/215

DIN5480

D3 / CMV 60

D4 / CMV 60/85

D5 / CMV 85/115

D6 / CMV 115/140/170

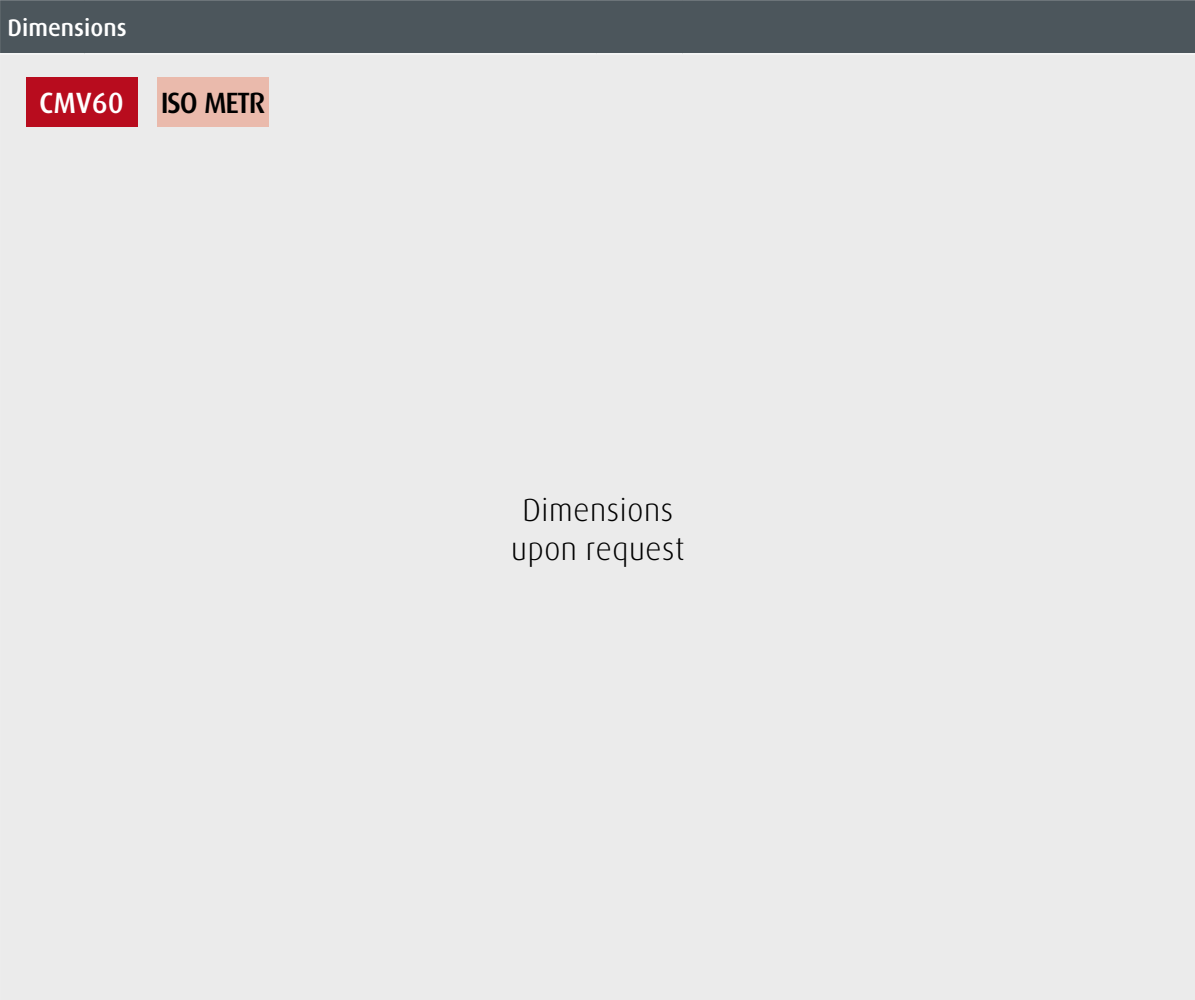
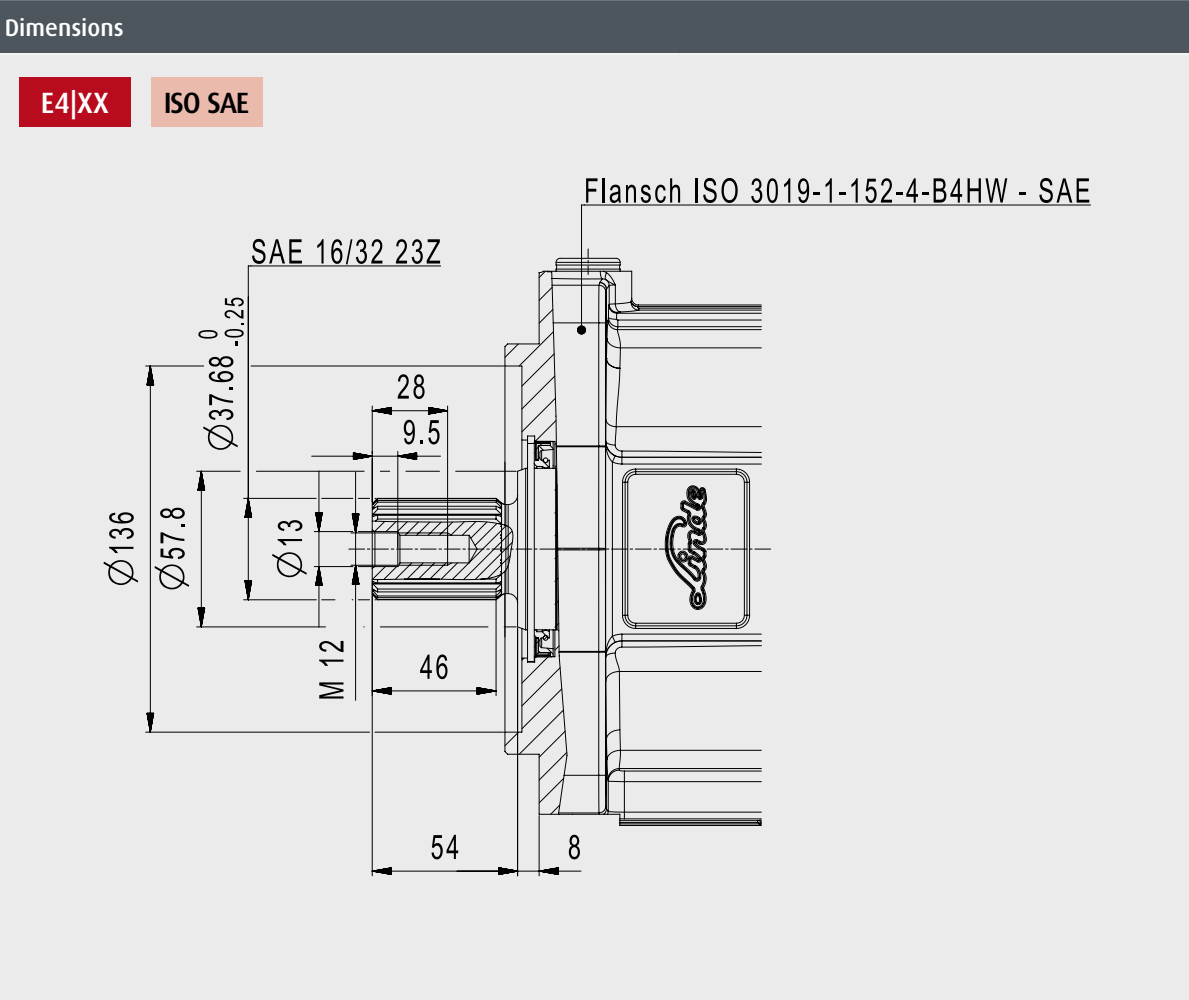
D7 / CMV 170/215

SAE J1946

F4



In the following you will find the technical specifications of the drive shafts. They are clustered according to the related mounting flange and nominal size. First get an overview of the table data showing standard and load capacity of the shafts. Beyond that you will find the dimensions of each shaft in combination with each relevant mounting flange and nominal size. Note the short designations such as „S7“ or „D3“. In the section [Model Code & Availability], you can then check the availability of the flange and auxiliary ports and compile your desired configuration using the short designations as a segment of the model code.



CMV60	Nominal size 60	CMV170	Nominal size 170
CMV85	Nominal size 85	CMV215	Nominal size 215
CMV115	Nominal size 115	ISO SAE	Mounting flange ISO 3019-1/ SAE J744
CMV140	Nominal size 140	ISO METR	Mounting flange ISO 3019-2 metric

PLUG-IN	Mounting flange Plug-in, similar to ISO 3019-2		

In the following you will find the technical specifications of the drive shafts. They are clustered according to the related mounting flange and nominal size. First get an overview of the table data showing standard and load capacity of the shafts. Beyond that you will find the dimensions of each shaft in combination with each relevant mounting flange and nominal size. Note the short designations such as „S7“ or „D3“. In the section [Model Code & Availability], you can then check the availability of the flange and auxiliary ports and compile your desired configuration using the short designations as a segment of the model code.

E4|XX

PLUG-IN

Dimensions
upon request

CMV60	Nominal size 60	CMV170	Nominal size 170
CMV85	Nominal size 85	CMV215	Nominal size 215
CMV115	Nominal size 115	ISO SAE	Mounting flange ISO 3019-1/ SAE J744
CMV140	Nominal size 140	ISO METR	Mounting flange ISO 3019-2 metric

Dimensions

PLUG-IN	Mounting flange Plug-in, similar to ISO 3019-2		



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ISO 3019-1/
SAE J744

S7 / CMV 60

S8 / CMV 85

S9 / CMV 85

V6 / CMV 85/115

V7 / CMV 140/170

T1 / CMV 115/140/170

T2 / CMV 170/215

DIN5480

D3 / CMV 60

D4 / CMV 60/85

D5 / CMV 85/115

D6 / CMV 115/140/170

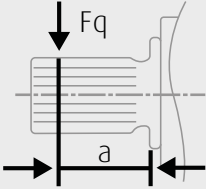
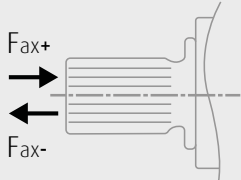
D7 / CMV 170/215

SAE J1946

F4



In the following you will find the technical specifications of the drive shafts. They are clustered according to the related mounting flange and nominal size. First get an overview of the table data showing standard and load capacity of the shafts. Beyond that you will find the dimensions of each shaft in combination with each relevant mounting flange and nominal size. Note the short designations such as „S7“ or „D3“. In the section [Model Code & Availability], you can then check the availability of the flange and auxiliary ports and compile your desired configuration using the short designations as a segment of the model code.

Specification					
Shaft end related data	Specification	Standard			
		Number of teeth			
		Spline pitch/module			
		Identification code			
Nominal size related data	Nominal size				
	Torque	Maximum torque			Nm
	Pressure	Maximum differential pressure		dpmax	bar
	Radial forces			Fpmax	N
				a	mm
	Axial forces		Motor at standstill or in rotation considering unpressurized work ports	Fax+	N
				Fax-	N
			Work ports pressurized	Fax+/p	N/bar

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ISO 3019-1/SAE J744		
27		
16/32		
44-4		
140	170	
1032	1218	
450	450	
16000	19400	
33.5	33.5	
0	0	
1210	1200	
12.4	15.1	

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Functions/Options

ISO 3019-1/
SAE J744

S7 / CMV 60

S8 / CMV 85

S9 / CMV 85

V6 / CMV 85/115

V7 / CMV 140/170

T1 / CMV 115/140/170

T2 / CMV 170/215

DIN5480

D3 / CMV 60

D4 / CMV 60/85

D5 / CMV 85/115

D6 / CMV 115/140/170

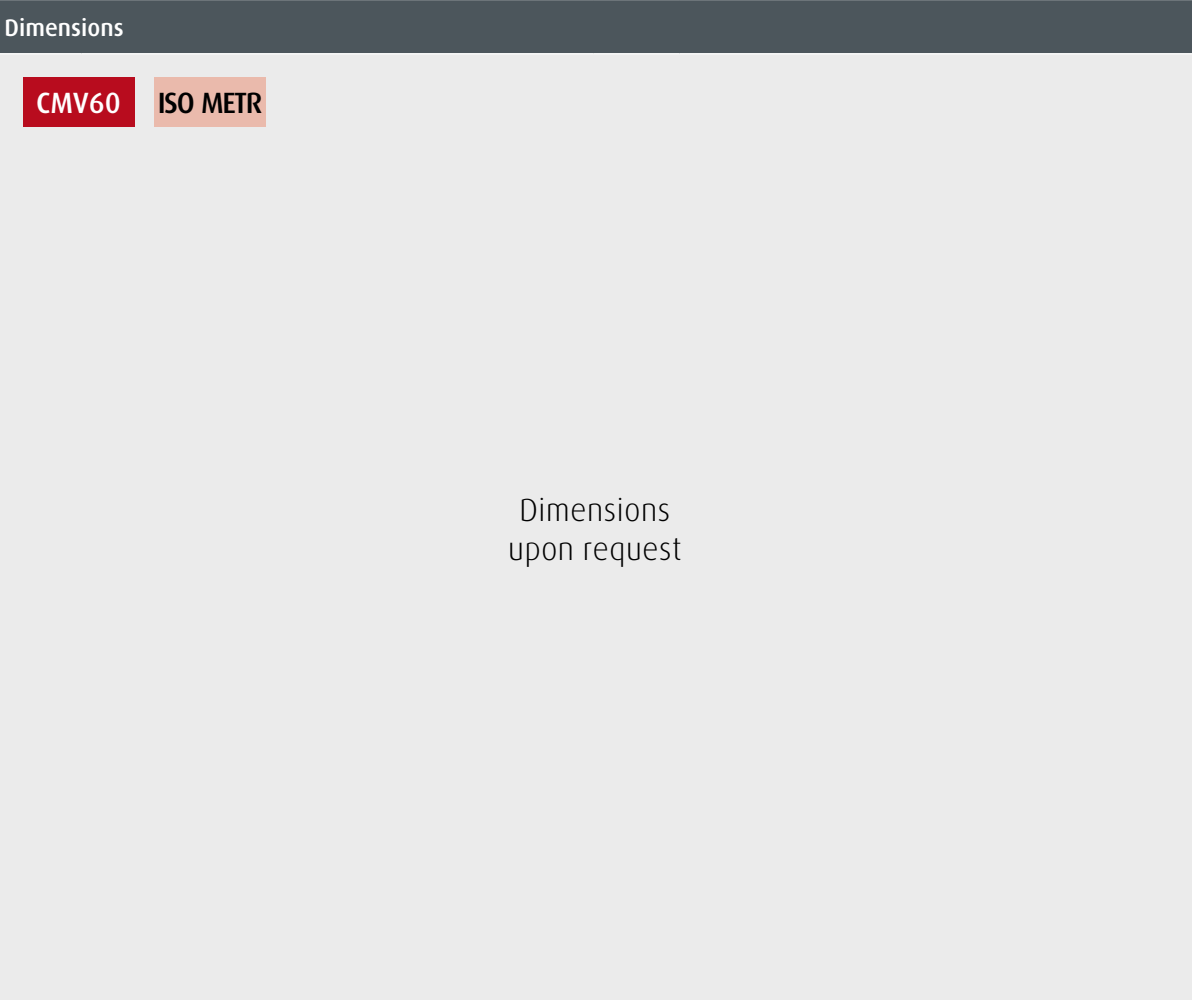
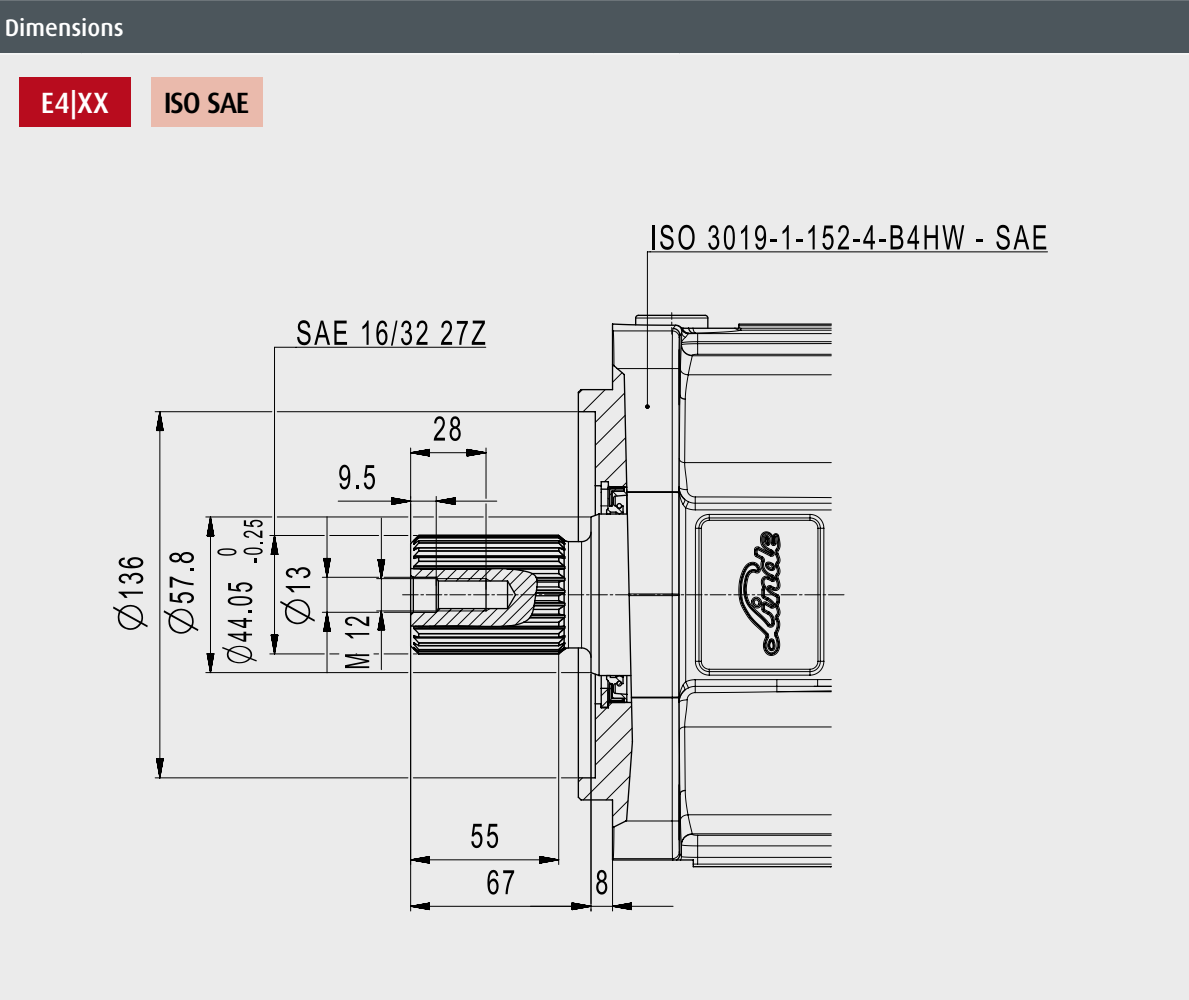
D7 / CMV 170/215

SAE J1946

F4



In the following you will find the technical specifications of the drive shafts. They are clustered according to the related mounting flange and nominal size. First get an overview of the table data showing standard and load capacity of the shafts. Beyond that you will find the dimensions of each shaft in combination with each relevant mounting flange and nominal size. Note the short designations such as „S7“ or „D3“. In the section [Model Code & Availability], you can then check the availability of the flange and auxiliary ports and compile your desired configuration using the short designations as a segment of the model code.



CMV60	Nominal size 60	CMV170	Nominal size 170
CMV85	Nominal size 85	CMV215	Nominal size 215
CMV115	Nominal size 115	ISO SAE	Mounting flange ISO 3019-1/ SAE J744
CMV140	Nominal size 140	ISO METR	Mounting flange ISO 3019-2 metric

PLUG-IN	Mounting flange Plug-in, similar to ISO 3019-2		

In the following you will find the technical specifications of the drive shafts. They are clustered according to the related mounting flange and nominal size. First get an overview of the table data showing standard and load capacity of the shafts. Beyond that you will find the dimensions of each shaft in combination with each relevant mounting flange and nominal size. Note the short designations such as „S7“ or „D3“. In the section [Model Code & Availability], you can then check the availability of the flange and auxiliary ports and compile your desired configuration using the short designations as a segment of the model code.

The image shows a presentation slide. At the top, there is a dark blue header bar with the word "Dimensions" in white. Below the header, the slide has a light gray background. In the upper left corner, there are two rectangular boxes: a red one containing the text "E4|XX" and a light orange one containing the text "PLUG-IN". In the center of the slide, the text "Dimensions upon request" is displayed in a dark gray, sans-serif font.

CMV60	Nominal size 60	CMV170	Nominal size 170
CMV85	Nominal size 85	CMV215	Nominal size 215
CMV115	Nominal size 115	ISO SAE	Mounting flange ISO 3019-1/ SAE J744
CMV140	Nominal size 140	ISO METR	Mounting flange ISO 3019-2 metric

Dimensions

PLUG-IN	Mounting flange Plug-in, similar to ISO 3019-2		



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Auxiliary Ports

Functions/Options

ISO 3019-1/
SAE J744

S7 / CMV 60

S8 / CMV 85

S9 / CMV 85

V6 / CMV 85/115

V7 / CMV 140/170

T1 / CMV 115/140/170

T2 / CMV 170/215

DIN5480

D3 / CMV 60

D4 / CMV 60/85

D5 / CMV 85/115

D6 / CMV 115/140/170

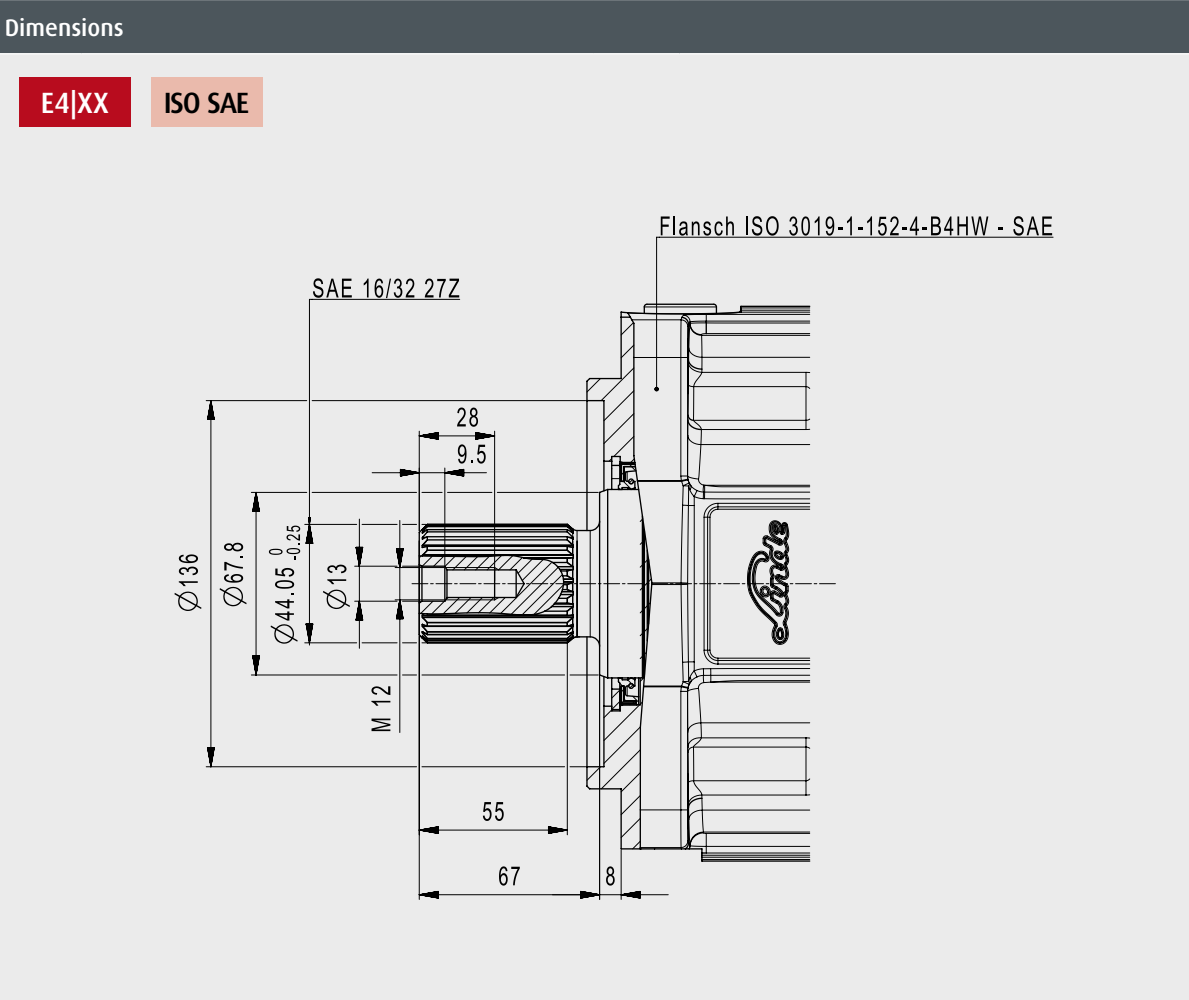
D7 / CMV 170/215

SAE J1946

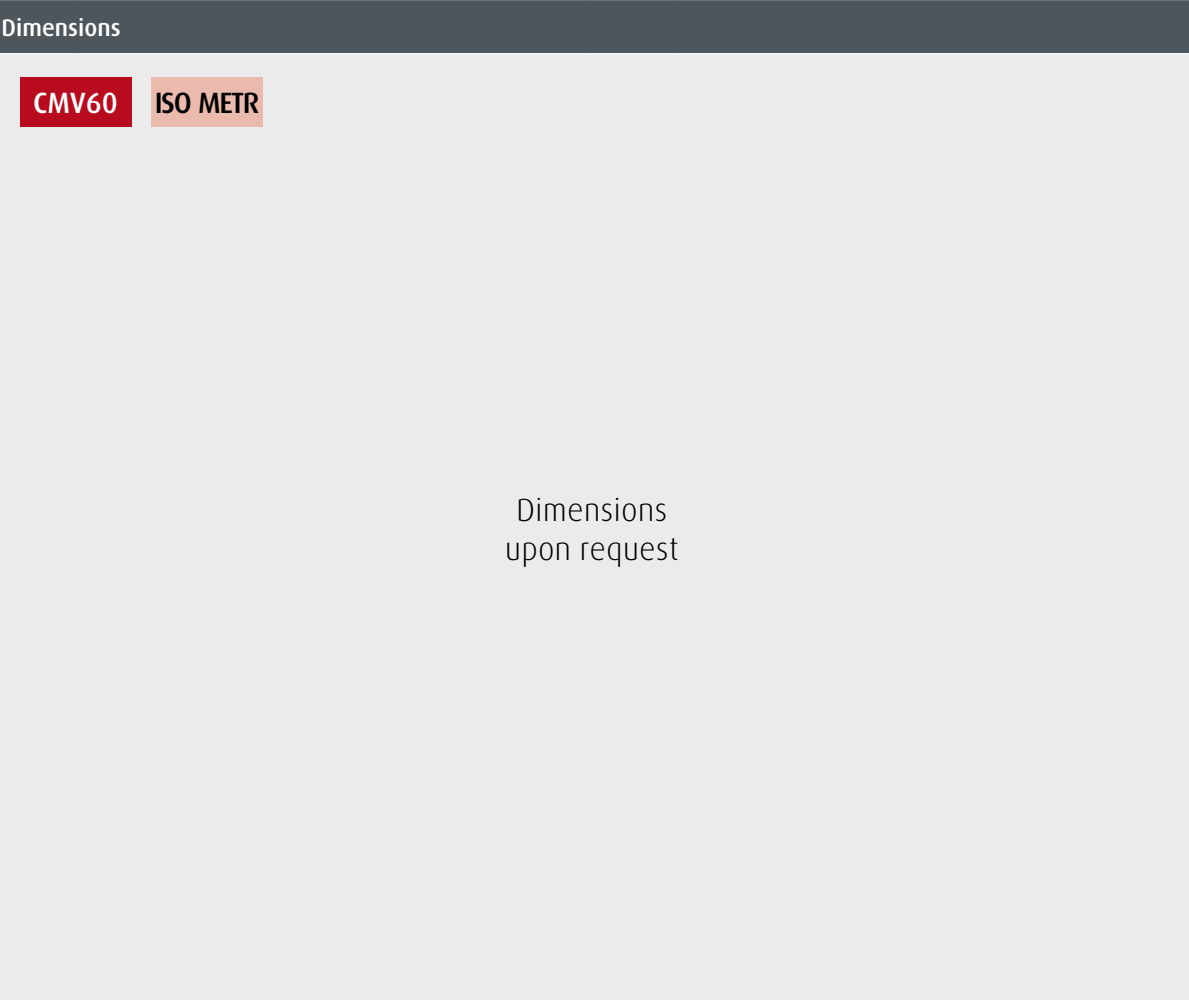
F4



In the following you will find the technical specifications of the drive shafts. They are clustered according to the related mounting flange and nominal size. First get an overview of the table data showing standard and load capacity of the shafts. Beyond that you will find the dimensions of each shaft in combination with each relevant mounting flange and nominal size. Note the short designations such as „S7“ or „D3“. In the section [Model Code & Availability], you can then check the availability of the flange and auxiliary ports and compile your desired configuration using the short designations as a segment of the model code.



CMV60	Nominal size 60	CMV170	Nominal size 170
CMV85	Nominal size 85	CMV215	Nominal size 215
CMV115	Nominal size 115	ISO SAE	Mounting flange ISO 3019-1/ SAE J744
CMV140	Nominal size 140	ISO METR	Mounting flange ISO 3019-2 metric



PLUG-IN	Mounting flange Plug-in, similar to ISO 3019-2		

In the following you will find the technical specifications of the drive shafts. They are clustered according to the related mounting flange and nominal size. First get an overview of the table data showing standard and load capacity of the shafts. Beyond that you will find the dimensions of each shaft in combination with each relevant mounting flange and nominal size. Note the short designations such as „S7“ or „D3“. In the section [Model Code & Availability], you can then check the availability of the flange and auxiliary ports and compile your desired configuration using the short designations as a segment of the model code.

The image shows a presentation slide. At the top, there is a dark blue header bar with the word "Dimensions" in white text. Below the header, there are two rectangular buttons. The first button is red with the text "E4|XX" in white. The second button is light orange with the text "PLUG-IN" in black. The main body of the slide is a light gray color. In the center of this gray area, the text "Dimensions upon request" is displayed in a dark gray, sans-serif font, arranged in two lines.

CMV60	Nominal size 60	CMV170	Nominal size 170
CMV85	Nominal size 85	CMV215	Nominal size 215
CMV115	Nominal size 115	ISO SAE	Mounting flange ISO 3019-1/ SAE J744
CMV140	Nominal size 140	ISO METR	Mounting flange ISO 3019-2 metric

The image shows a dark gray horizontal bar at the top of a page. On the left side of this bar, the word "Dimensions" is written in a white, sans-serif font. The rest of the bar and the background below it are a light gray color.

PLUG-IN	Mounting flange Plug-in, similar to ISO 3019-2		



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Functions/Options

ISO 3019-1/
SAE J744

S7 / CMV 60

S8 / CMV 85

S9 / CMV 85

V6 / CMV 85/115

V7 / CMV 140/170

T1 / CMV 115/140/170

T2 / CMV 170/215

DIN5480

D3 / CMV 60

D4 / CMV 60/85

D5 / CMV 85/115

D6 / CMV 115/140/170

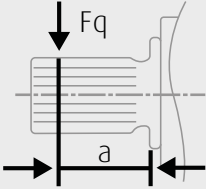
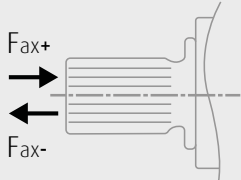
D7 / CMV 170/215

SAE J1946

F4



In the following you will find the technical specifications of the drive shafts. They are clustered according to the related mounting flange and nominal size. First get an overview of the table data showing standard and load capacity of the shafts. Beyond that you will find the dimensions of each shaft in combination with each relevant mounting flange and nominal size. Note the short designations such as „S7“ or „D3“. In the section [Model Code & Availability], you can then check the availability of the flange and auxiliary ports and compile your desired configuration using the short designations as a segment of the model code.

Specification					
Shaft end related data	Specification	Standard			
		Number of teeth			
		Spline pitch/module			
		Identification code			
Nominal size related data	Nominal size				
	Torque	Maximum torque			Nm
	Pressure	Maximum differential pressure		dpmax	bar
	Radial forces			Fpmax	N
				a	mm
	Axial forces		Motor at standstill or in rotation considering unpressurized work ports	Fax+	N
				Fax-	N
			Work ports pressurized	Fax+/p	N/bar

ISO 3019-1/SAE J744			
13			
8/16			
44-4			
115	140	170	
826	894	879	
450	390	325	
15000	16000	11550	
33.5	33.5	33.5	
0	0	0	
1000	1210	1200	
11	12.4	15.1	

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Auxiliary Ports

Functions/Options

ISO 3019-1/
SAE J744

S7 / CMV 60

S8 / CMV 85

S9 / CMV 85

V6 / CMV 85/115

V7 / CMV 140/170

T1 / CMV 115/140/170

T2 / CMV 170/215

DIN5480

D3 / CMV 60

D4 / CMV 60/85

D5 / CMV 85/115

D6 / CMV 115/140/170

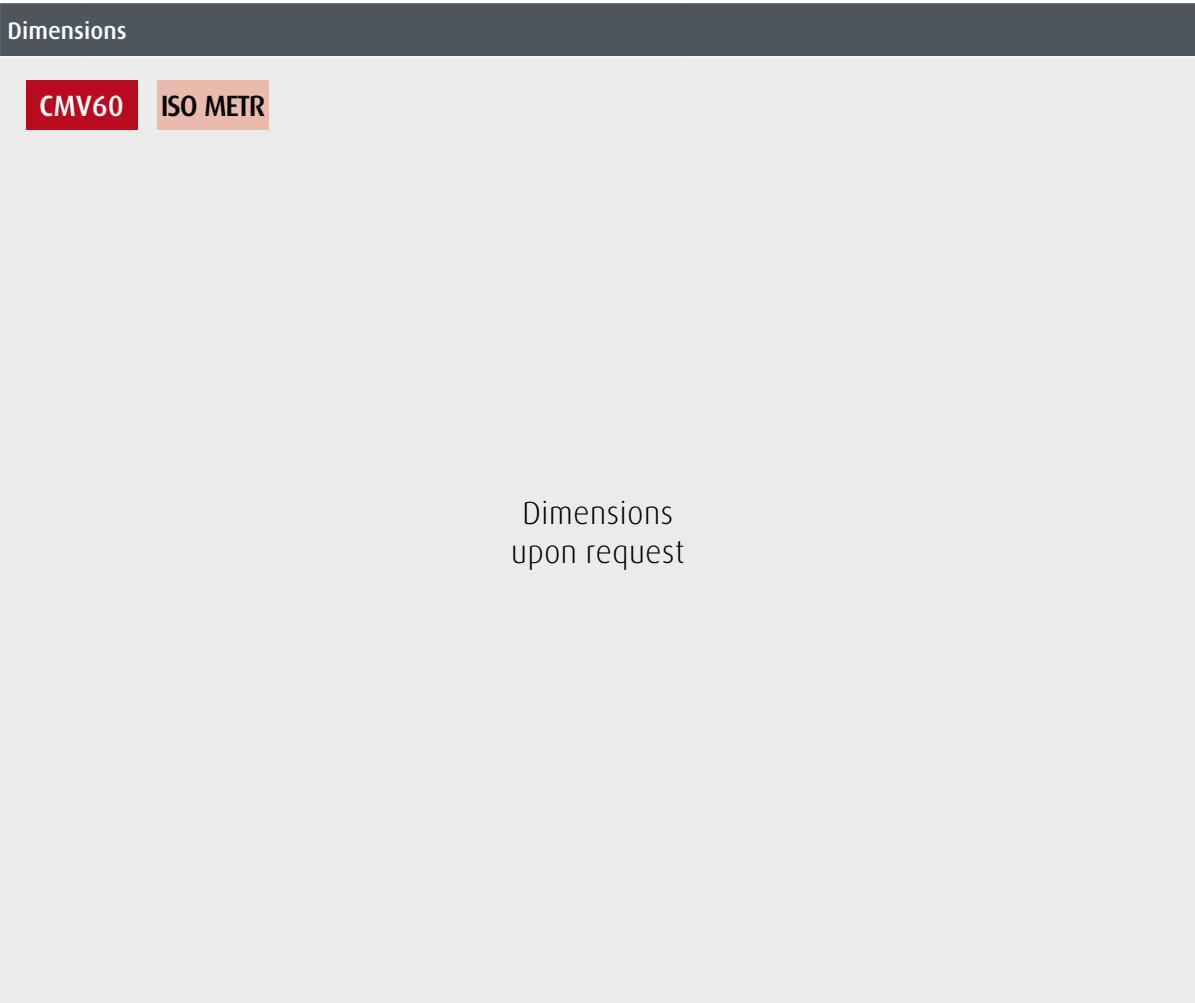
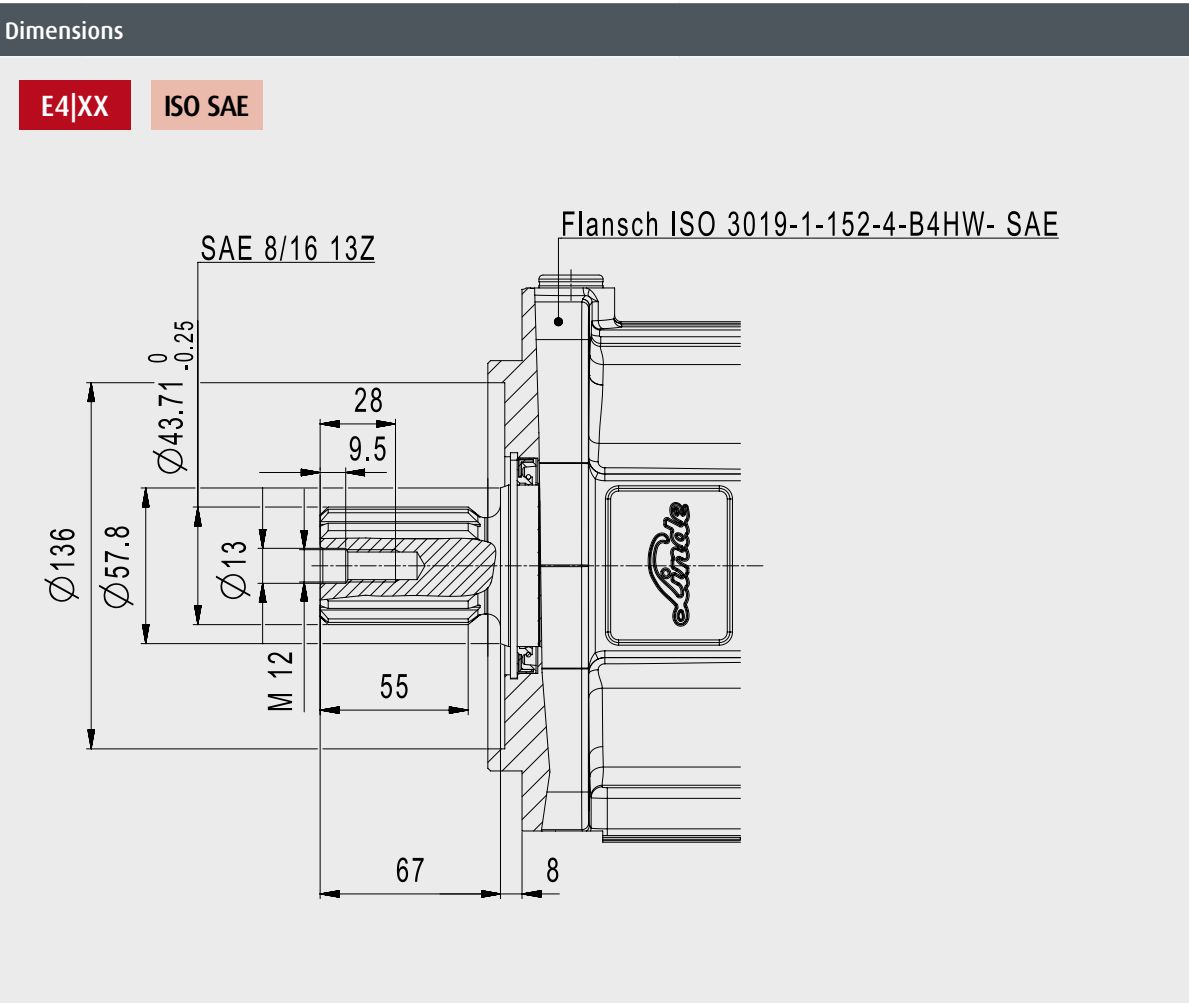
D7 / CMV 170/215

SAE J1946

F4



In the following you will find the technical specifications of the drive shafts. They are clustered according to the related mounting flange and nominal size. First get an overview of the table data showing standard and load capacity of the shafts. Beyond that you will find the dimensions of each shaft in combination with each relevant mounting flange and nominal size. Note the short designations such as „S7“ or „D3“. In the section [Model Code & Availability], you can then check the availability of the flange and auxiliary ports and compile your desired configuration using the short designations as a segment of the model code.



CMV60	Nominal size 60	CMV170	Nominal size 170
CMV85	Nominal size 85	CMV215	Nominal size 215
CMV115	Nominal size 115	ISO SAE	Mounting flange ISO 3019-1/ SAE J744
CMV140	Nominal size 140	ISO METR	Mounting flange ISO 3019-2 metric

PLUG-IN	Mounting flange Plug-in, similar to ISO 3019-2		

In the following you will find the technical specifications of the drive shafts. They are clustered according to the related mounting flange and nominal size. First get an overview of the table data showing standard and load capacity of the shafts. Beyond that you will find the dimensions of each shaft in combination with each relevant mounting flange and nominal size. Note the short designations such as „S7“ or „D3“. In the section [Model Code & Availability], you can then check the availability of the flange and auxiliary ports and compile your desired configuration using the short designations as a segment of the model code.

E4|XX

PLUG-IN

Dimensions
upon request

Dimensions

CMV60	Nominal size 60	CMV170	Nominal size 170
CMV85	Nominal size 85	CMV215	Nominal size 215
CMV115	Nominal size 115	ISO SAE	Mounting flange ISO 3019-1/ SAE J744
CMV140	Nominal size 140	ISO METR	Mounting flange ISO 3019-2 metric

PLUG-IN	Mounting flange Plug-in, similar to ISO 3019-2		



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Auxiliary Ports

Functions/Options

ISO 3019-1/
SAE J744

S7 / CMV 60

S8 / CMV 85

S9 / CMV 85

V6 / CMV 85/115

V7 / CMV 140/170

T1 / CMV 115/140/170

T2 / CMV 170/215

DIN5480

D3 / CMV 60

D4 / CMV 60/85

D5 / CMV 85/115

D6 / CMV 115/140/170

D7 / CMV 170/215

SAE J1946

F4



In the following you will find the technical specifications of the drive shafts. They are clustered according to the related mounting flange and nominal size. First get an overview of the table data showing standard and load capacity of the shafts. Beyond that you will find the dimensions of each shaft in combination with each relevant mounting flange and nominal size. Note the short designations such as „S7“ or „D3“. In the section [Model Code & Availability], you can then check the availability of the flange and auxiliary ports and compile your desired configuration using the short designations as a segment of the model code.

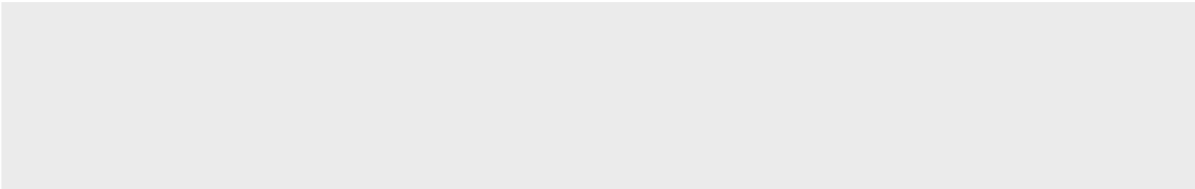
Dimensions

E4|XX

ISO SAE

Dimensions upon request

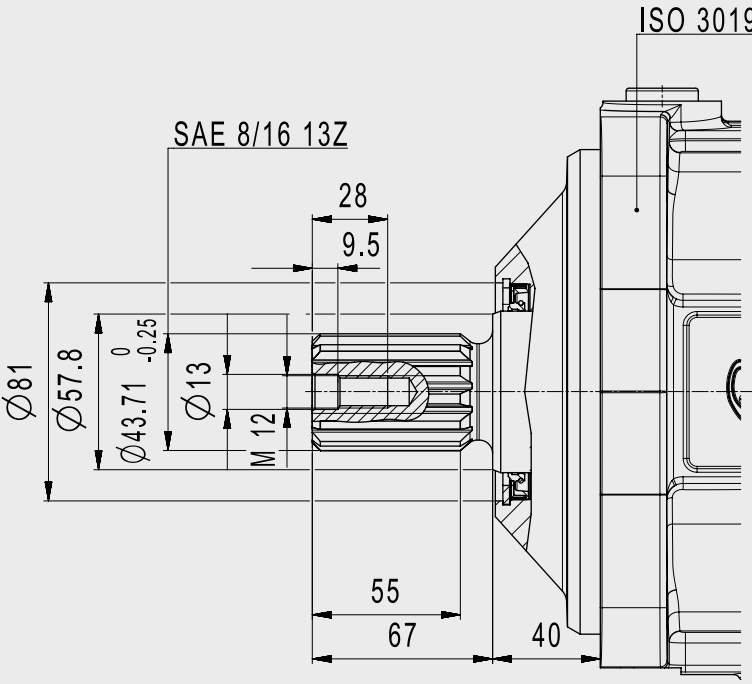
CMV60	Nominal size 60	CMV170	Nominal size 170
CMV85	Nominal size 85	CMV215	Nominal size 215
CMV115	Nominal size 115	ISO SAE	Mounting flange ISO 3019-1/ SAE J744
CMV140	Nominal size 140	ISO METR	Mounting flange ISO 3019-2 metric



Dimensions

CMV60

ISO METR



PLUG-IN	Mounting flange Plug-in, similar to ISO 3019-2		

In the following you will find the technical specifications of the drive shafts. They are clustered according to the related mounting flange and nominal size. First get an overview of the table data showing standard and load capacity of the shafts. Beyond that you will find the dimensions of each shaft in combination with each relevant mounting flange and nominal size. Note the short designations such as „S7“ or „D3“. In the section [Model Code & Availability], you can then check the availability of the flange and auxiliary ports and compile your desired configuration using the short designations as a segment of the model code.

CMV60	Nominal size 60	CMV170	Nominal size 170
CMV85	Nominal size 85	CMV215	Nominal size 215
CMV115	Nominal size 115	ISO SAE	Mounting flange ISO 3019-1/ SAE J744
CMV140	Nominal size 140	ISO METR	Mounting flange ISO 3019-2 metric

PLUG-IN	Mounting flange Plug-in, similar to ISO 3019-2		

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Work Ports

Auxiliary Ports

Functions/Options

ISO 3019-1/
SAE J744

S7 / CMV 60

S8 / CMV 85

S9 / CMV 85

V6 / CMV 85/115

V7 / CMV 140/170

T1 / CMV 115/140/170

T2 / CMV 170/215

DIN5480

D3 / CMV 60

D4 / CMV 60/85

D5 / CMV 85/115

D6 / CMV 115/140/170

D7 / CMV 170/215

SAE J1946

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In the following you will find the technical specifications of the drive shafts. They are clustered according to the related mounting flange and nominal size. First get an overview of the table data showing standard and load capacity of the shafts. Beyond that you will find the dimensions of each shaft in combination with each relevant mounting flange and nominal size. Note the short designations such as „S7“ or „D3“. In the section [Model Code & Availability], you can then check the availability of the flange and auxiliary ports and compile your desired configuration using the short designations as a segment of the model code.

Dimensions

E4|XX

ISO SAE

Dimensions upon request

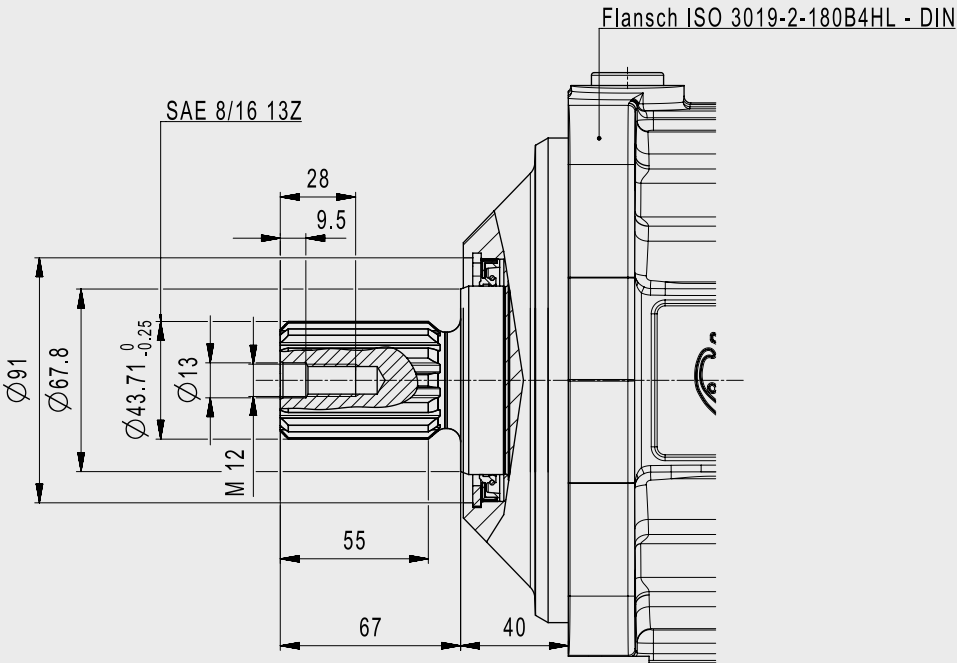
CMV60	Nominal size 60	CMV170	Nominal size 170
CMV85	Nominal size 85	CMV215	Nominal size 215
CMV115	Nominal size 115	ISO SAE	Mounting flange ISO 3019-1/ SAE J744
CMV140	Nominal size 140	ISO METR	Mounting flange ISO 3019-2 metric



Dimensions

CMV60

ISO METR



PLUG-IN	Mounting flange Plug-in, similar to ISO 3019-2		

In the following you will find the technical specifications of the drive shafts. They are clustered according to the related mounting flange and nominal size. First get an overview of the table data showing standard and load capacity of the shafts. Beyond that you will find the dimensions of each shaft in combination with each relevant mounting flange and nominal size. Note the short designations such as „S7“ or „D3“. In the section [Model Code & Availability], you can then check the availability of the flange and auxiliary ports and compile your desired configuration using the short designations as a segment of the model code.

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CMV60	Nominal size 60	CMV170	Nominal size 170
CMV85	Nominal size 85	CMV215	Nominal size 215
CMV115	Nominal size 115	ISO SAE	Mounting flange ISO 3019-1/ SAE J744
CMV140	Nominal size 140	ISO METR	Mounting flange ISO 3019-2 metric

A dark gray header bar at the top of the page with the word "Dimensions" in white, sans-serif font.

PLUG-IN	Mounting flange Plug-in, similar to ISO 3019-2		



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Functions/Options

ISO 3019-1/
SAE J744

S7 / CMV 60

S8 / CMV 85

S9 / CMV 85

V6 / CMV 85/115

V7 / CMV 140/170

T1 / CMV 115/140/170

T2 / CMV 170/215

DIN5480

D3 / CMV 60

D4 / CMV 60/85

D5 / CMV 85/115

D6 / CMV 115/140/170

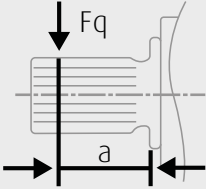
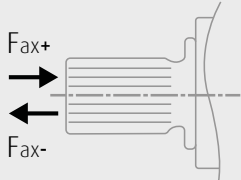
D7 / CMV 170/215

SAE J1946

F4



In the following you will find the technical specifications of the drive shafts. They are clustered according to the related mounting flange and nominal size. First get an overview of the table data showing standard and load capacity of the shafts. Beyond that you will find the dimensions of each shaft in combination with each relevant mounting flange and nominal size. Note the short designations such as „S7“ or „D3“. In the section [Model Code & Availability], you can then check the availability of the flange and auxiliary ports and compile your desired configuration using the short designations as a segment of the model code.

Specification					
Shaft end related data	Specification	Standard			
		Number of teeth			
		Spline pitch/module			
		Identification code			
Nominal size related data	Nominal size				
	Torque	Maximum torque			Nm
	Pressure	Maximum differential pressure		dpmax	bar
	Radial forces			Fpmax	N
				a	mm
	Axial forces		Motor at standstill or in rotation considering unpressurized work ports	Fax+	N
				Fax-	N
			Work ports pressurized	Fax+/p	N/bar

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ISO 3019-1/SAE J744		
15		
8/16		
50-4		
170	215	
1218	1457	
450	420	
19400	22600	
33.5	33.5	
0	0	
1200	1250	
15.1	17	

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Auxiliary Ports

Functions/Options

ISO 3019-1/
SAE J744

S7 / CMV 60

S8 / CMV 85

S9 / CMV 85

V6 / CMV 85/115

V7 / CMV 140/170

T1 / CMV 115/140/170

T2 / CMV 170/215

DIN5480

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D4 / CMV 60/85

D5 / CMV 85/115

D6 / CMV 115/140/170

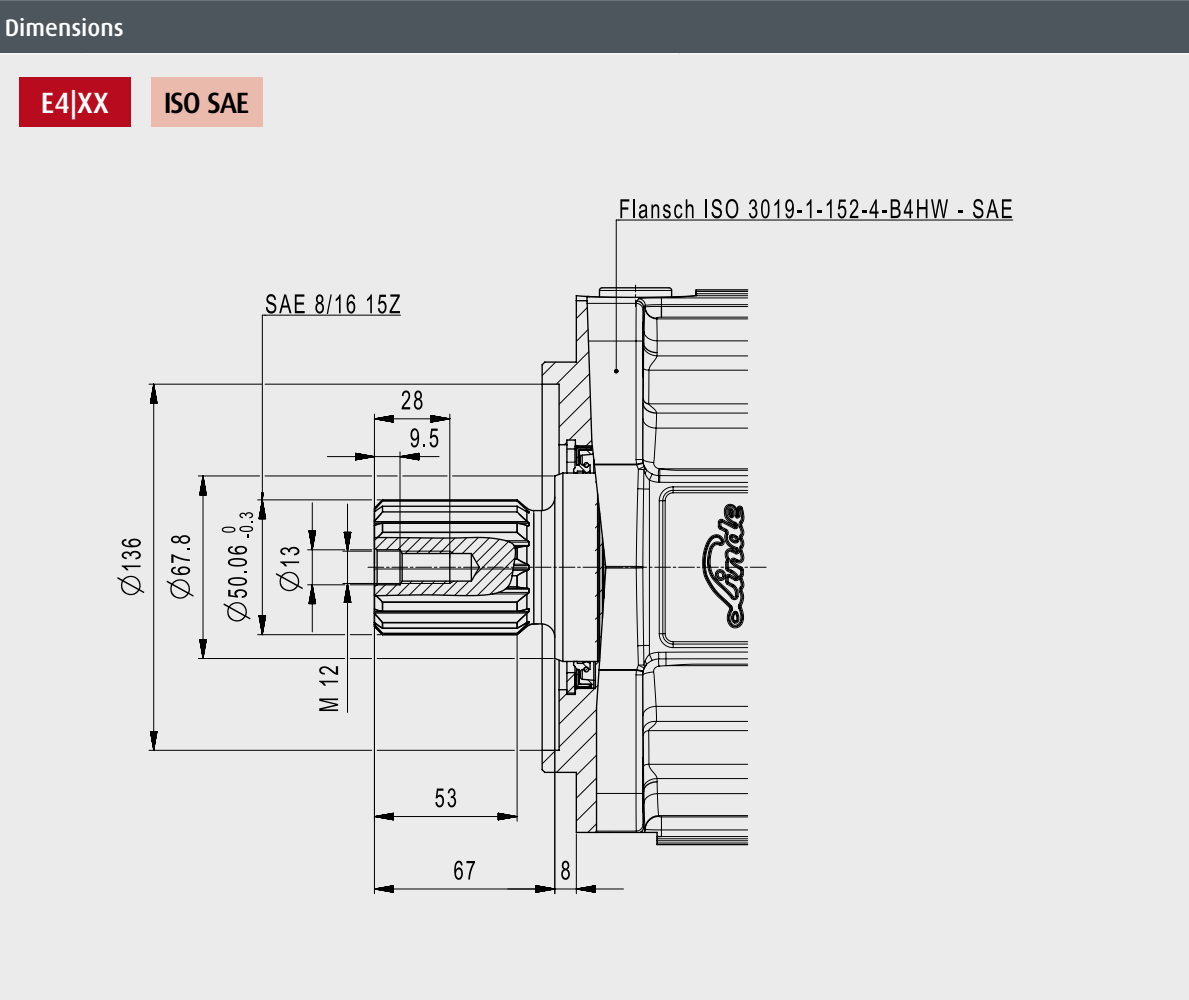
D7 / CMV 170/215

SAE J1946

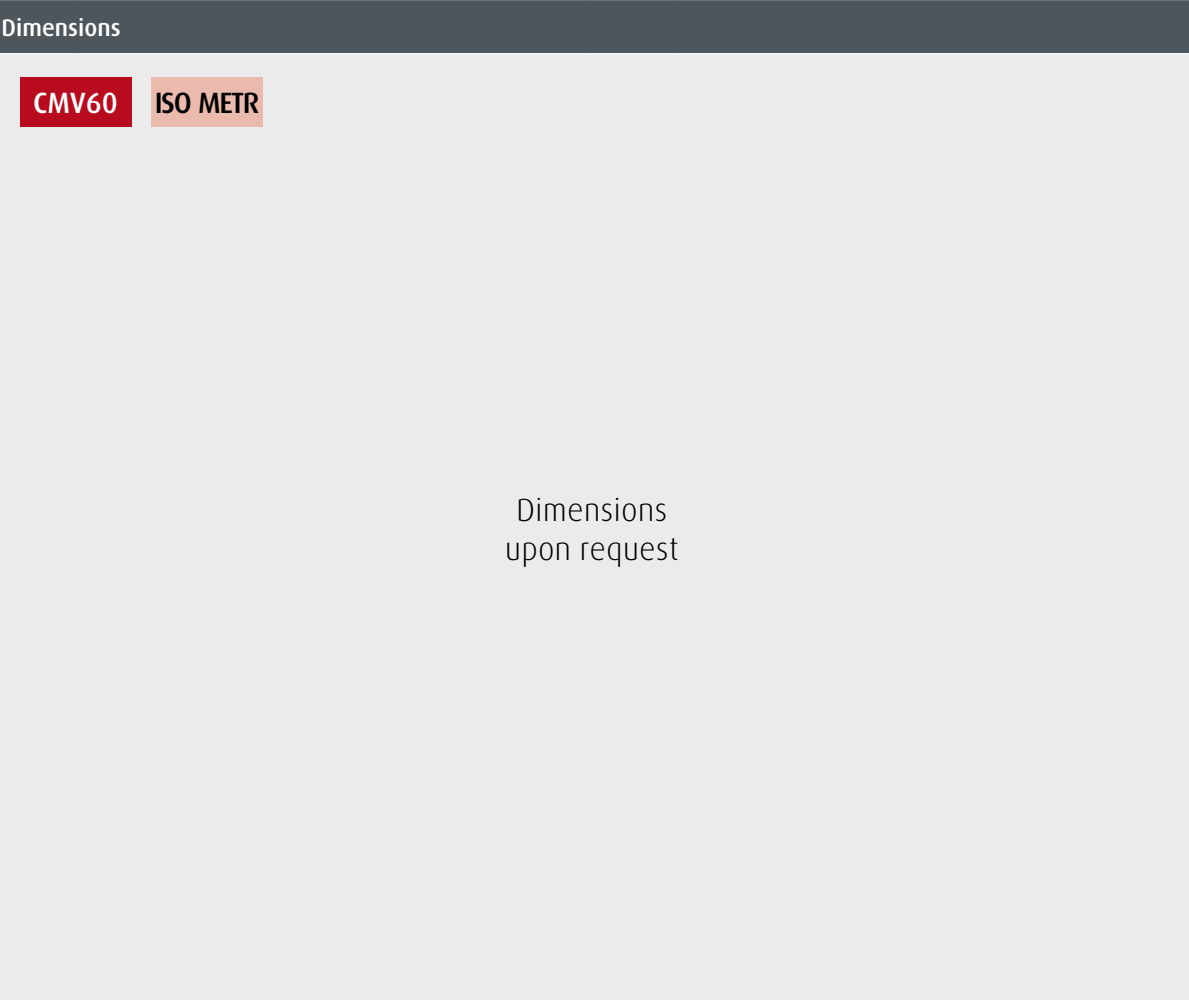
F4



In the following you will find the technical specifications of the drive shafts. They are clustered according to the related mounting flange and nominal size. First get an overview of the table data showing standard and load capacity of the shafts. Beyond that you will find the dimensions of each shaft in combination with each relevant mounting flange and nominal size. Note the short designations such as „S7“ or „D3“. In the section [Model Code & Availability], you can then check the availability of the flange and auxiliary ports and compile your desired configuration using the short designations as a segment of the model code.



CMV60	Nominal size 60	CMV170	Nominal size 170
CMV85	Nominal size 85	CMV215	Nominal size 215
CMV115	Nominal size 115	ISO SAE	Mounting flange ISO 3019-1/ SAE J744
CMV140	Nominal size 140	ISO METR	Mounting flange ISO 3019-2 metric



PLUG-IN	Mounting flange Plug-in, similar to ISO 3019-2		

In the following you will find the technical specifications of the drive shafts. They are clustered according to the related mounting flange and nominal size. First get an overview of the table data showing standard and load capacity of the shafts. Beyond that you will find the dimensions of each shaft in combination with each relevant mounting flange and nominal size. Note the short designations such as „S7“ or „D3“. In the section [Model Code & Availability], you can then check the availability of the flange and auxiliary ports and compile your desired configuration using the short designations as a segment of the model code.

The image shows a presentation slide. At the top, there is a dark blue header bar with the word "Dimensions" in white text. Below the header, there are two rectangular buttons. The first button is red with the text "E4|XX" in white. The second button is light orange with the text "PLUG-IN" in black. The main body of the slide is a light gray color. In the center of this gray area, the text "Dimensions upon request" is displayed in a dark gray, sans-serif font, arranged in two lines.

CMV60	Nominal size 60	CMV170	Nominal size 170
CMV85	Nominal size 85	CMV215	Nominal size 215
CMV115	Nominal size 115	ISO SAE	Mounting flange ISO 3019-1/ SAE J744
CMV140	Nominal size 140	ISO METR	Mounting flange ISO 3019-2 metric

Dimensions

PLUG-IN	Mounting flange Plug-in, similar to ISO 3019-2		



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Functions/Options

ISO 3019-1/
SAE J744

S7 / CMV 60

S8 / CMV 85

S9 / CMV 85

V6 / CMV 85/115

V7 / CMV 140/170

T1 / CMV 115/140/170

T2 / CMV 170/215

DIN5480

D3 / CMV 60

D4 / CMV 60/85

D5 / CMV 85/115

D6 / CMV 115/140/170

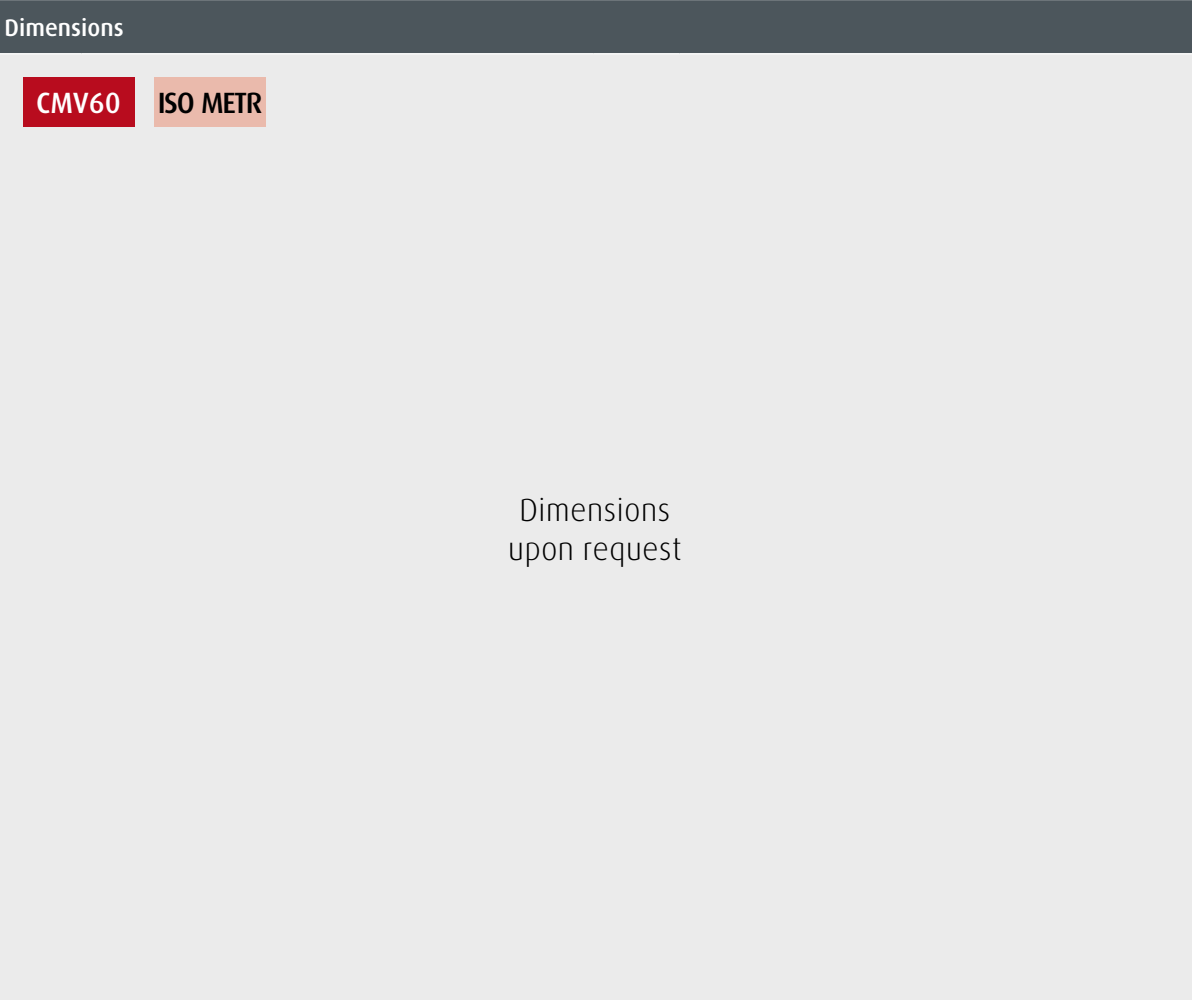
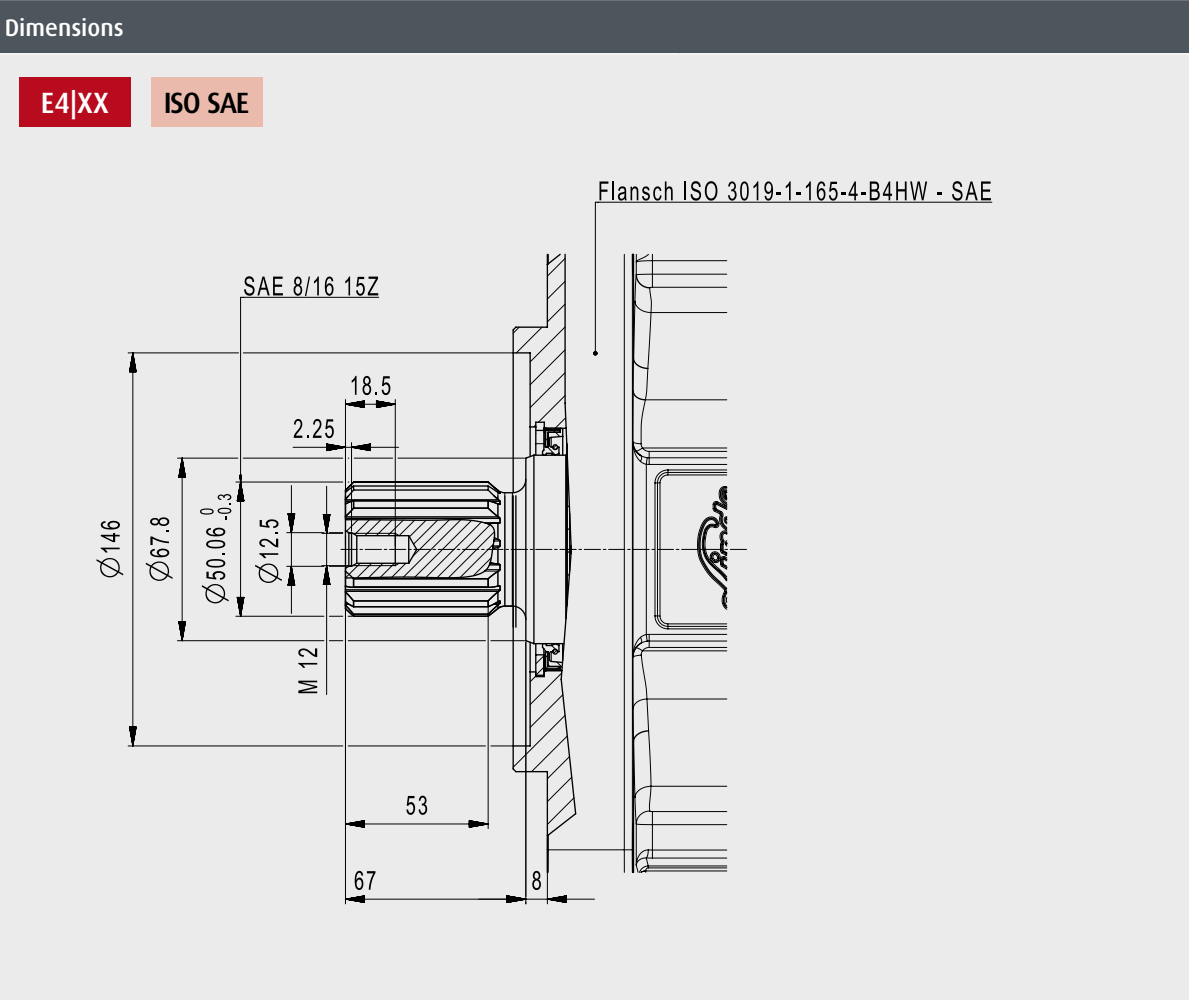
D7 / CMV 170/215

SAE J1946

F4



In the following you will find the technical specifications of the drive shafts. They are clustered according to the related mounting flange and nominal size. First get an overview of the table data showing standard and load capacity of the shafts. Beyond that you will find the dimensions of each shaft in combination with each relevant mounting flange and nominal size. Note the short designations such as „S7“ or „D3“. In the section [Model Code & Availability], you can then check the availability of the flange and auxiliary ports and compile your desired configuration using the short designations as a segment of the model code.



CMV60	Nominal size 60	CMV170	Nominal size 170
CMV85	Nominal size 85	CMV215	Nominal size 215
CMV115	Nominal size 115	ISO SAE	Mounting flange ISO 3019-1/ SAE J744
CMV140	Nominal size 140	ISO METR	Mounting flange ISO 3019-2 metric

PLUG-IN	Mounting flange Plug-in, similar to ISO 3019-2		

In the following you will find the technical specifications of the drive shafts. They are clustered according to the related mounting flange and nominal size. First get an overview of the table data showing standard and load capacity of the shafts. Beyond that you will find the dimensions of each shaft in combination with each relevant mounting flange and nominal size. Note the short designations such as „S7“ or „D3“. In the section [Model Code & Availability], you can then check the availability of the flange and auxiliary ports and compile your desired configuration using the short designations as a segment of the model code.

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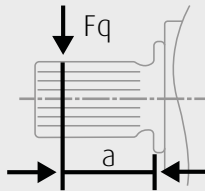
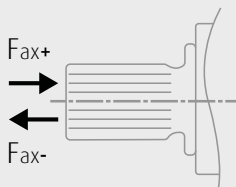
CMV60	Nominal size 60	CMV170	Nominal size 170
CMV85	Nominal size 85	CMV215	Nominal size 215
CMV115	Nominal size 115	ISO SAE	Mounting flange ISO 3019-1/ SAE J744
CMV140	Nominal size 140	ISO METR	Mounting flange ISO 3019-2 metric

Dimensions

PLUG-IN	Mounting flange Plug-in, similar to ISO 3019-2		



In the following you will find the technical specifications of the drive shafts. They are clustered according to the related mounting flange and nominal size. First get an overview of the table data showing standard and load capacity of the shafts. Beyond that you will find the dimensions of each shaft in combination with each relevant mounting flange and nominal size. Note the short designations such as „S7“ or „D3“. In the section [Model Code & Availability], you can then check the availability of the flange and auxiliary ports and compile your desired configuration using the short designations as a segment of the model code.

Specification					
Shaft end related data	Specification	Standard			
		Number of teeth			
		Spline pitch/module			
		Identification code			
Nominal size related data	Nominal size				
	Torque	Maximum torque			Nm
	Pressure	Maximum differential pressure		dpmax	bar
	Radial forces		Fpmax	N	
			a	mm	
	Axial forces		Motor at standstill or in rotation considering unpressurized work ports	Fax+	N
				Fax-	N
			Work ports pressurized	Fax+/p	N/bar

[illegible]

Technical Specification | Drive Shafts / Comp. Flanges | DIN 5480 | **D3 / CMV 60**

In the following you will find the technical specifications of the drive shafts. They are clustered according to the related mounting flange and nominal size. First get an overview of the table data showing standard and load capacity of the shafts. Beyond that you will find the dimensions of each shaft in combination with each relevant mounting flange and nominal size. Note the short designations such as „S7“ or „D3“. In the section [Model Code & Availability], you can then check the availability of the flange and auxiliary ports and compile your desired configuration using the short designations as a segment of the model code.

Dimensions	
E4 XX	ISO SAE
Dimensions upon request	

CMV60	Nominal size 60	CMV170	Nominal size 170
CMV85	Nominal size 85	CMV215	Nominal size 215
CMV115	Nominal size 115	ISO SAE	Mounting flange ISO 3019-1/ SAE J744
CMV140	Nominal size 140	ISO METR	Mounting flange ISO 3019-2 metric

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Dimensions	
CMV60	ISO METR
Dimensions upon request	

PLUG-IN	Mounting flange Plug-in, similar to ISO 3019-2		



In the following you will find the technical specifications of the drive shafts. They are clustered according to the related mounting flange and nominal size. First get an overview of the table data showing standard and load capacity of the shafts. Beyond that you will find the dimensions of each shaft in combination with each relevant mounting flange and nominal size. Note the short designations such as „S7“ or „D3“. In the section [Model Code & Availability], you can then check the availability of the flange and auxiliary ports and compile your desired configuration using the short designations as a segment of the model code.

E4|XX

PLUG-IN

Dimensions
upon request

Dimensions

CMV60	Nominal size 60	CMV170	Nominal size 170
CMV85	Nominal size 85	CMV215	Nominal size 215
CMV115	Nominal size 115	ISO SAE	Mounting flange ISO 3019-1/ SAE J744
CMV140	Nominal size 140	ISO METR	Mounting flange ISO 3019-2 metric

PLUG-IN	Mounting flange Plug-in, similar to ISO 3019-2		



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Functions/Options

ISO 3019-1/
SAE J744

S7 / CMV 60

S8 / CMV 85

S9 / CMV 85

V6 / CMV 85/115

V7 / CMV 140/170

T1 / CMV 115/140/170

T2 / CMV 170/215

DIN5480

D3 / CMV 60

D4 / CMV 60/85

D5 / CMV 85/115

D6 / CMV 115/140/170

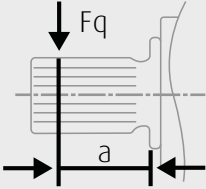
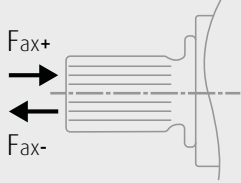
D7 / CMV 170/215

SAE J1946

F4



In the following you will find the technical specifications of the drive shafts. They are clustered according to the related mounting flange and nominal size. First get an overview of the table data showing standard and load capacity of the shafts. Beyond that you will find the dimensions of each shaft in combination with each relevant mounting flange and nominal size. Note the short designations such as „S7“ or „D3“. In the section [Model Code & Availability], you can then check the availability of the flange and auxiliary ports and compile your desired configuration using the short designations as a segment of the model code.

Specification					
Shaft end related data	Specification	Standard			
		Number of teeth			
		Spline pitch/module			
		Identification code			
Nominal size related data	Nominal size				
	Torque	Maximum torque			Nm
	Pressure	Maximum differential pressure		dpmax	bar
	Radial forces			Fpmax	N
				a	mm
	Axial forces		Motor at standstill or in rotation considering unpressurized work ports	Fax+	N
				Fax-	N
			Work ports pressurized	Fax+/p	N/bar

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DIN 5480		
16		
2		
W35		
60	85	
444	upon request	
450	upon request	
10300	upon request	
20	upon request	
0	upon request	
500	upon request	
7.5	upon request	

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Functions/Options

ISO 3019-1/
SAE J744

S7 / CMV 60

S8 / CMV 85

S9 / CMV 85

V6 / CMV 85/115

V7 / CMV 140/170

T1 / CMV 115/140/170

T2 / CMV 170/215

DIN5480

D3 / CMV 60

D4 / CMV 60/85

D5 / CMV 85/115

D6 / CMV 115/140/170

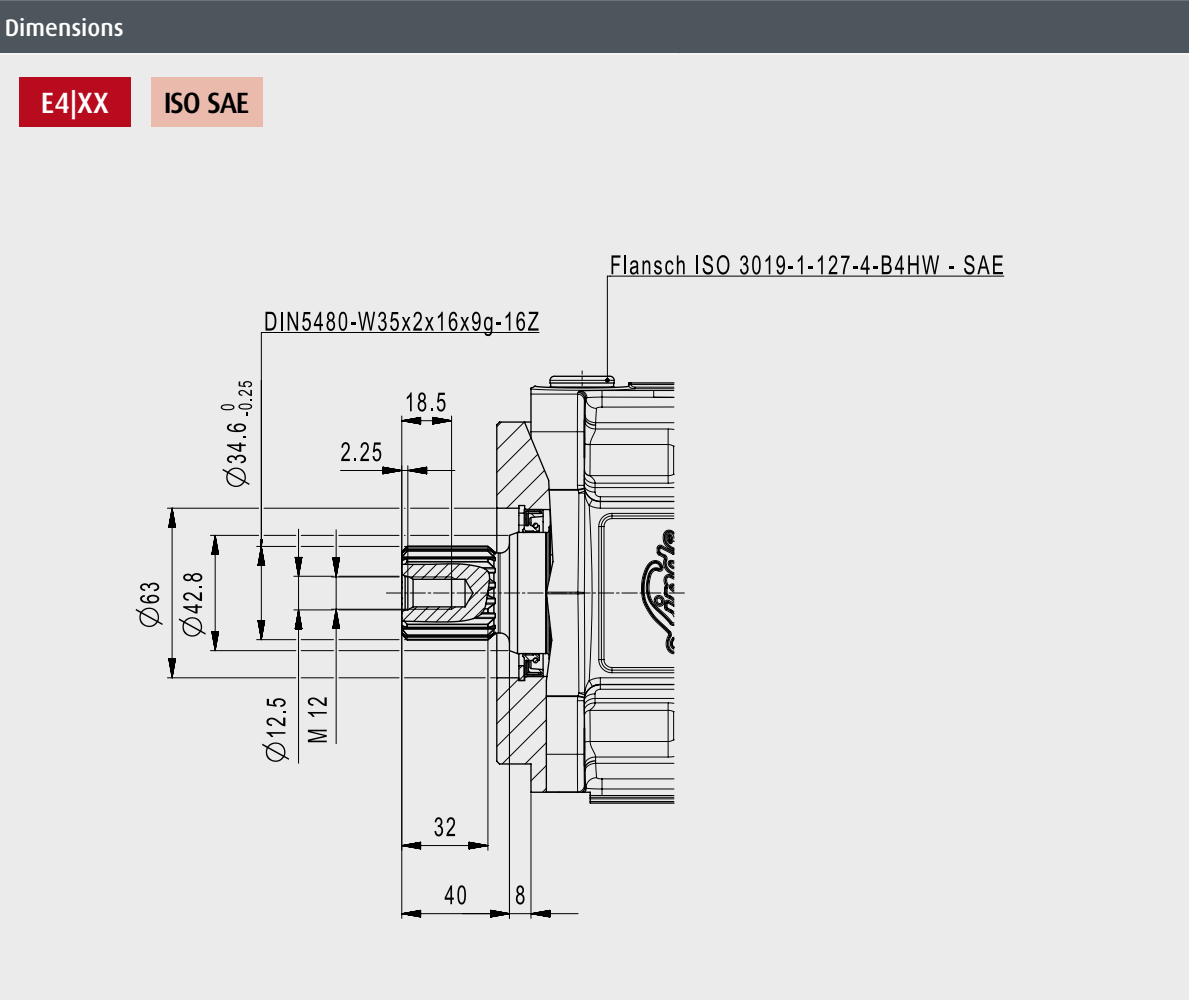
D7 / CMV 170/215

SAE J1946

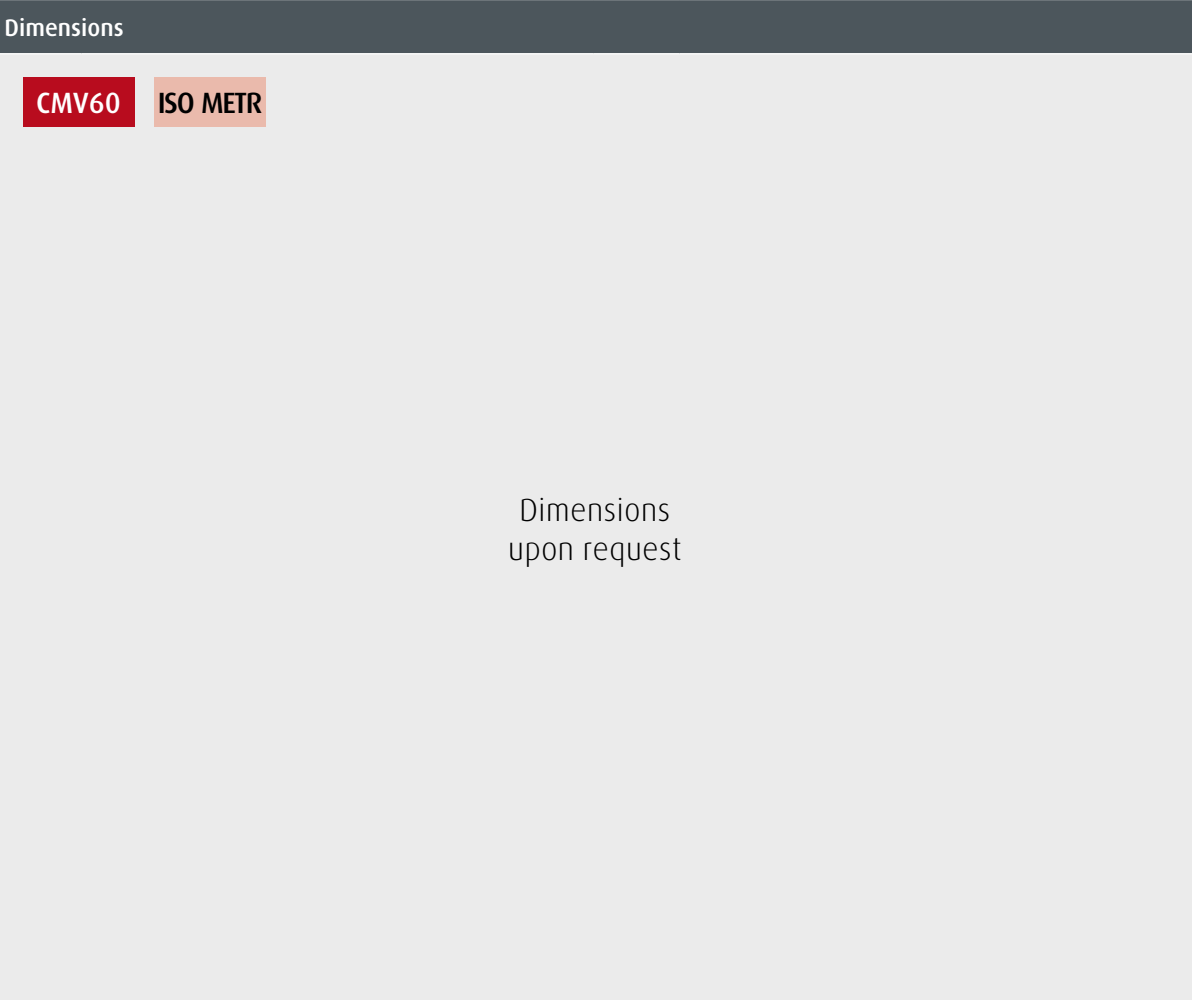
F4



In the following you will find the technical specifications of the drive shafts. They are clustered according to the related mounting flange and nominal size. First get an overview of the table data showing standard and load capacity of the shafts. Beyond that you will find the dimensions of each shaft in combination with each relevant mounting flange and nominal size. Note the short designations such as „S7“ or „D3“. In the section [Model Code & Availability], you can then check the availability of the flange and auxiliary ports and compile your desired configuration using the short designations as a segment of the model code.



CMV60	Nominal size 60	CMV170	Nominal size 170
CMV85	Nominal size 85	CMV215	Nominal size 215
CMV115	Nominal size 115	ISO SAE	Mounting flange ISO 3019-1/ SAE J744
CMV140	Nominal size 140	ISO METR	Mounting flange ISO 3019-2 metric



PLUG-IN	Mounting flange Plug-in, similar to ISO 3019-2		

CMV60	Nominal size 60	CMV170	Nominal size 170
CMV85	Nominal size 85	CMV215	Nominal size 215
CMV115	Nominal size 115	ISO SAE	Mounting flange ISO 3019-1/ SAE J744
CMV140	Nominal size 140	ISO METR	Mounting flange ISO 3019-2 metric

PLUG-IN	Mounting flange Plug-in, similar to ISO 3019-2		

Technical Specification | Drive Shafts / Comp. Flanges | DIN 5480 | **D4 / CMV 60/85**

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Auxiliary Ports

Functions/Options

ISO 3019-1/
SAE J744

S7 / CMV 60

S8 / CMV 85

S9 / CMV 85

V6 / CMV 85/115

V7 / CMV 140/170

T1 / CMV 115/140/170

T2 / CMV 170/215

DIN5480

D3 / CMV 60

D4 / CMV 60/85

D5 / CMV 85/115

D6 / CMV 115/140/170

D7 / CMV 170/215

SAE J1946

F4



In the following you will find the technical specifications of the drive shafts. They are clustered according to the related mounting flange and nominal size. First get an overview of the table data showing standard and load capacity of the shafts. Beyond that you will find the dimensions of each shaft in combination with each relevant mounting flange and nominal size. Note the short designations such as „S7“ or „D3“. In the section [Model Code & Availability], you can then check the availability of the flange and auxiliary ports and compile your desired configuration using the short designations as a segment of the model code.

Dimensions	
E4 XX	ISO SAE
Dimensions upon request	

CMV60	Nominal size 60	CMV170	Nominal size 170
CMV85	Nominal size 85	CMV215	Nominal size 215
CMV115	Nominal size 115	ISO SAE	Mounting flange ISO 3019-1/ SAE J744
CMV140	Nominal size 140	ISO METR	Mounting flange ISO 3019-2 metric



Dimensions	
CMV60	ISO METR
Dimensions upon request	

PLUG-IN	Mounting flange Plug-in, similar to ISO 3019-2		

CMV60	Nominal size 60	CMV170	Nominal size 170
CMV85	Nominal size 85	CMV215	Nominal size 215
CMV115	Nominal size 115	ISO SAE	Mounting flange ISO 3019-1/ SAE J744
CMV140	Nominal size 140	ISO METR	Mounting flange ISO 3019-2 metric

PLUG-IN	Mounting flange Plug-in, similar to ISO 3019-2		

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Functions/Options

ISO 3019-1/
SAE J744

S7 / CMV 60

S8 / CMV 85

S9 / CMV 85

V6 / CMV 85/115

V7 / CMV 140/170

T1 / CMV 115/140/170

T2 / CMV 170/215

DIN5480

D3 / CMV 60

D4 / CMV 60/85

D5 / CMV 85/115

D6 / CMV 115/140/170

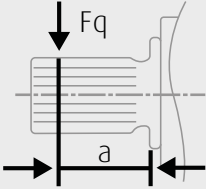
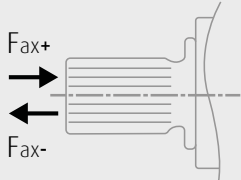
D7 / CMV 170/215

SAE J1946

F4



In the following you will find the technical specifications of the drive shafts. They are clustered according to the related mounting flange and nominal size. First get an overview of the table data showing standard and load capacity of the shafts. Beyond that you will find the dimensions of each shaft in combination with each relevant mounting flange and nominal size. Note the short designations such as „S7“ or „D3“. In the section [Model Code & Availability], you can then check the availability of the flange and auxiliary ports and compile your desired configuration using the short designations as a segment of the model code.

Specification					
Shaft end related data	Specification	Standard			
		Number of teeth			
		Spline pitch/module			
		Identification code			
Nominal size related data	Nominal size				
	Torque	Maximum torque			Nm
	Pressure	Maximum differential pressure		dpmax	bar
	Radial forces			Fpmax	N
				a	mm
	Axial forces		Motor at standstill or in rotation considering unpressurized work ports	Fax+	N
				Fax-	N
		Work ports pressurized		Fax+/p	N/bar

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DIN 5480		
18		
2		
W40		
85	115	
628	826	
450	450	
12500	16700	
22.5	22.5	
0	0	
710	1000	
9.6	11	

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ISO 3019-1/
SAE J744

S7 / CMV 60

S8 / CMV 85

S9 / CMV 85

V6 / CMV 85/115

V7 / CMV 140/170

T1 / CMV 115/140/170

T2 / CMV 170/215

DIN5480

D3 / CMV 60

D4 / CMV 60/85

D5 / CMV 85/115

D6 / CMV 115/140/170

D7 / CMV 170/215

SAE J1946

F4



In the following you will find the technical specifications of the drive shafts. They are clustered according to the related mounting flange and nominal size. First get an overview of the table data showing standard and load capacity of the shafts. Beyond that you will find the dimensions of each shaft in combination with each relevant mounting flange and nominal size. Note the short designations such as „S7“ or „D3“. In the section [Model Code & Availability], you can then check the availability of the flange and auxiliary ports and compile your desired configuration using the short designations as a segment of the model code.

Dimensions	
E4 XX	ISO SAE
Dimensions upon request	

CMV60	Nominal size 60	CMV170	Nominal size 170
CMV85	Nominal size 85	CMV215	Nominal size 215
CMV115	Nominal size 115	ISO SAE	Mounting flange ISO 3019-1/ SAE J744
CMV140	Nominal size 140	ISO METR	Mounting flange ISO 3019-2 metric

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Dimensions	
CMV60	ISO METR
Dimensions upon request	

PLUG-IN	Mounting flange Plug-in, similar to ISO 3019-2		

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Functions/Options

ISO 3019-1/
SAE J744

S7 / CMV 60

S8 / CMV 85

S9 / CMV 85

V6 / CMV 85/115

V7 / CMV 140/170

T1 / CMV 115/140/170

T2 / CMV 170/215

DIN5480

D3 / CMV 60

D4 / CMV 60/85

D5 / CMV 85/115

D6 / CMV 115/140/170

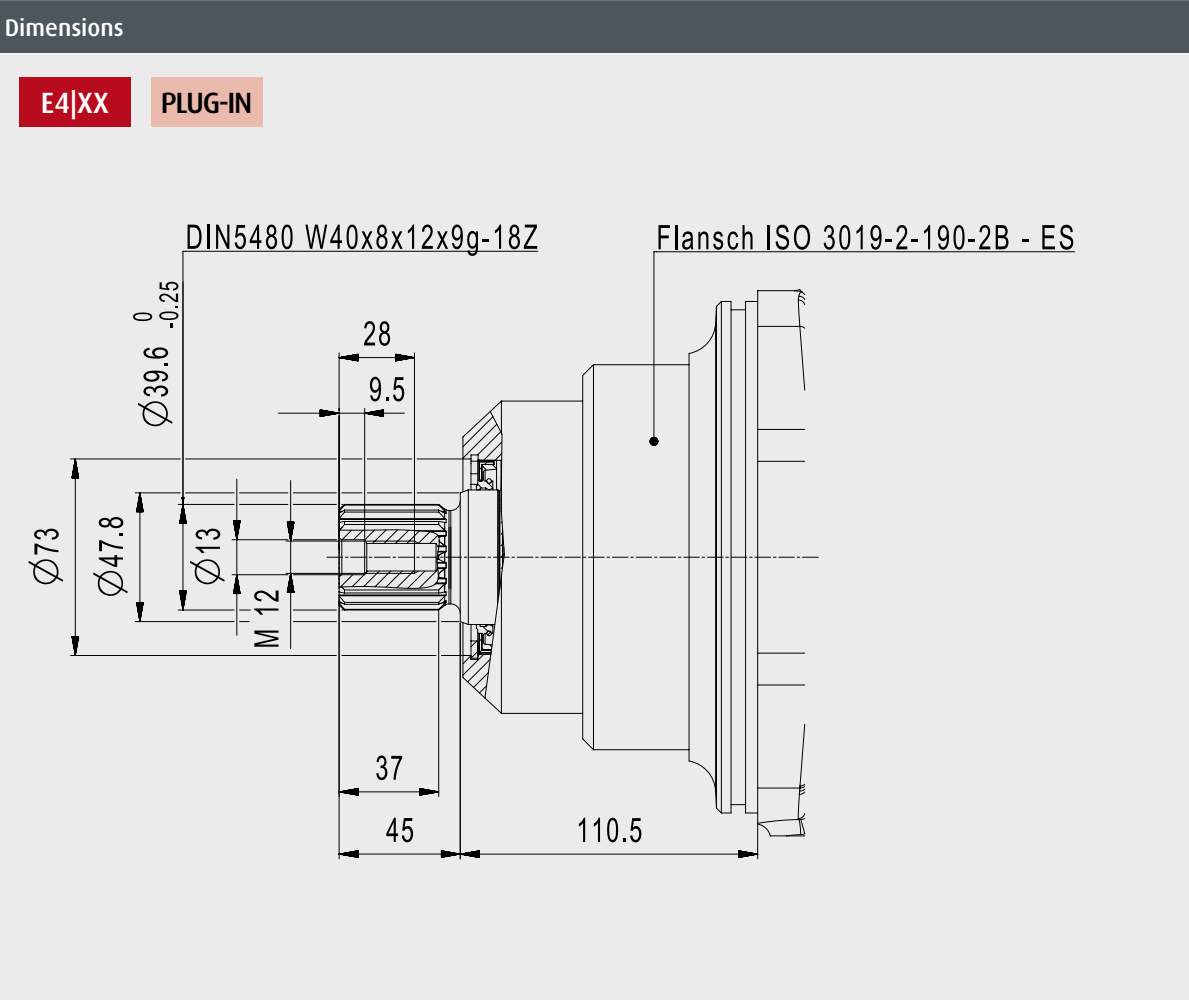
D7 / CMV 170/215

SAE J1946

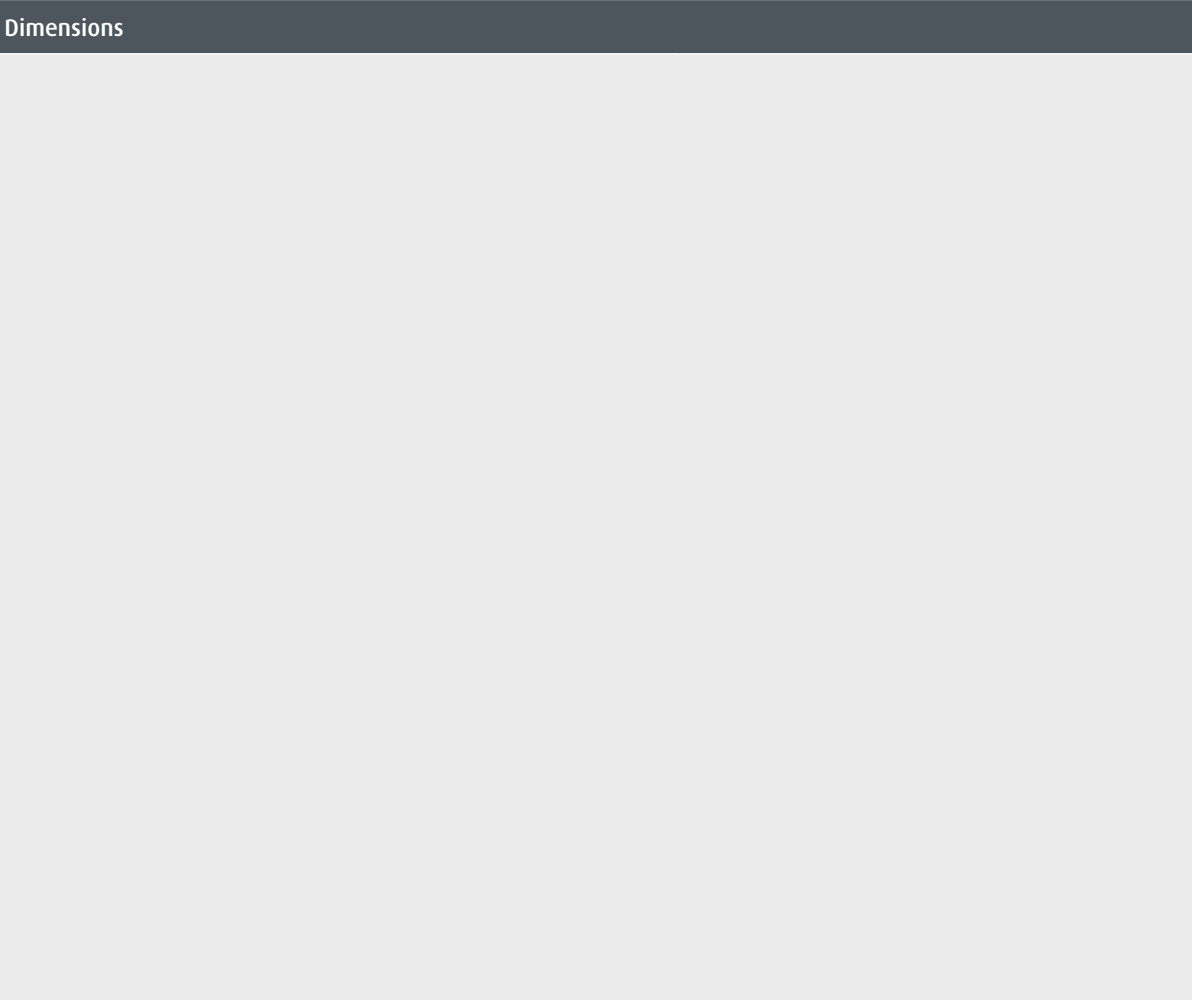
F4



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CMV60	Nominal size 60	CMV170	Nominal size 170
CMV85	Nominal size 85	CMV215	Nominal size 215
CMV115	Nominal size 115	ISO SAE	Mounting flange ISO 3019-1/ SAE J744
CMV140	Nominal size 140	ISO METR	Mounting flange ISO 3019-2 metric



PLUG-IN	Mounting flange Plug-in, similar to ISO 3019-2		

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Functions/Options

ISO 3019-1/
SAE J744

S7 / CMV 60

S8 / CMV 85

S9 / CMV 85

V6 / CMV 85/115

V7 / CMV 140/170

T1 / CMV 115/140/170

T2 / CMV 170/215

DIN5480

D3 / CMV 60

D4 / CMV 60/85

D5 / CMV 85/115

D6 / CMV 115/140/170

D7 / CMV 170/215

SAE J1946

F4



In the following you will find the technical specifications of the drive shafts. They are clustered according to the related mounting flange and nominal size. First get an overview of the table data showing standard and load capacity of the shafts. Beyond that you will find the dimensions of each shaft in combination with each relevant mounting flange and nominal size. Note the short designations such as „S7“ or „D3“. In the section [Model Code & Availability], you can then check the availability of the flange and auxiliary ports and compile your desired configuration using the short designations as a segment of the model code.

Dimensions	
E4 XX	ISO SAE
Dimensions upon request	

CMV60	Nominal size 60	CMV170	Nominal size 170
CMV85	Nominal size 85	CMV215	Nominal size 215
CMV115	Nominal size 115	ISO SAE	Mounting flange ISO 3019-1/ SAE J744
CMV140	Nominal size 140	ISO METR	Mounting flange ISO 3019-2 metric

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Dimensions	
CMV60	ISO METR
Dimensions upon request	

PLUG-IN	Mounting flange Plug-in, similar to ISO 3019-2		

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Functions/Options

ISO 3019-1/
SAE J744

S7 / CMV 60

S8 / CMV 85

S9 / CMV 85

V6 / CMV 85/115

V7 / CMV 140/170

T1 / CMV 115/140/170

T2 / CMV 170/215

DIN5480

D3 / CMV 60

D4 / CMV 60/85

D5 / CMV 85/115

D6 / CMV 115/140/170

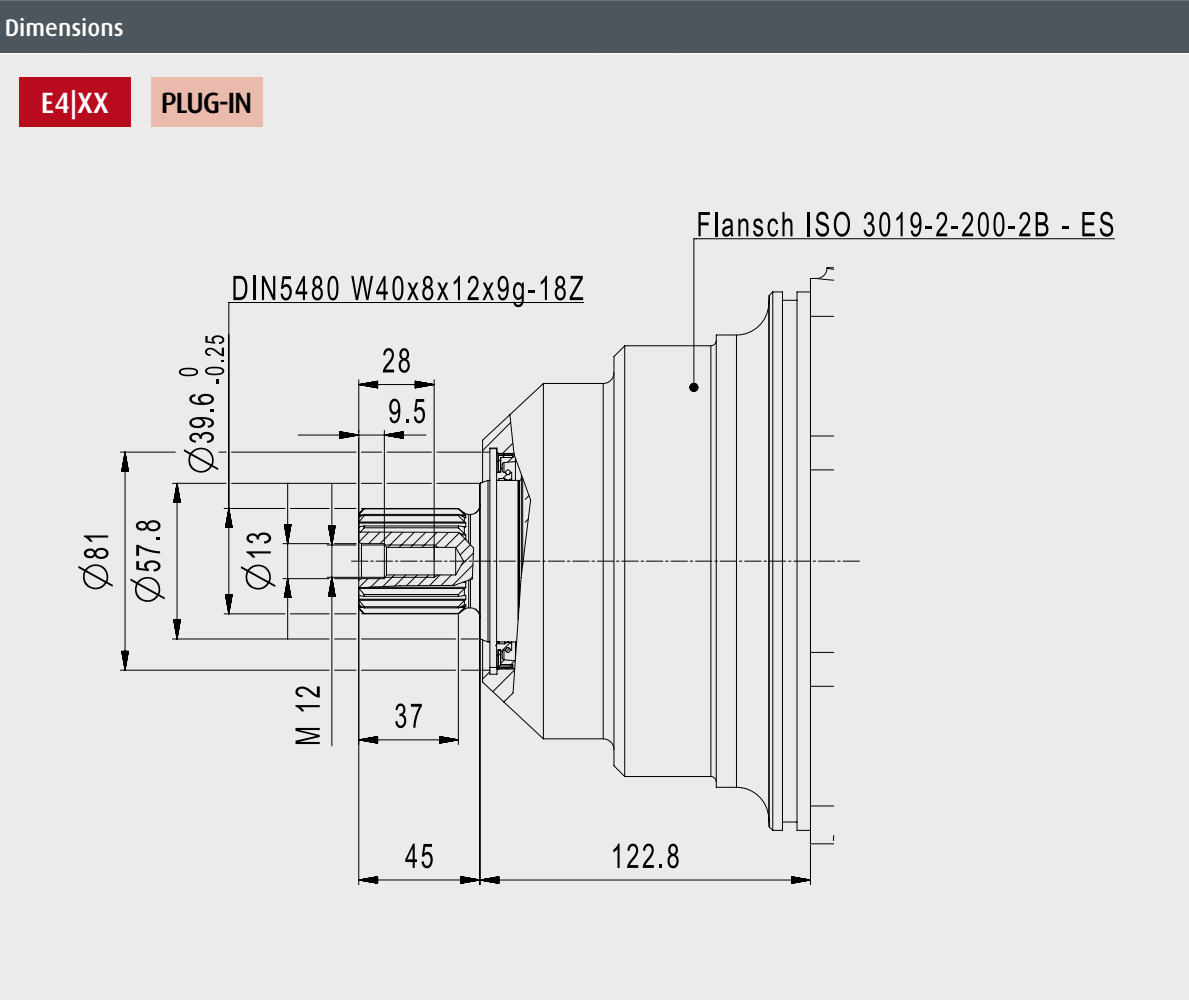
D7 / CMV 170/215

SAE J1946

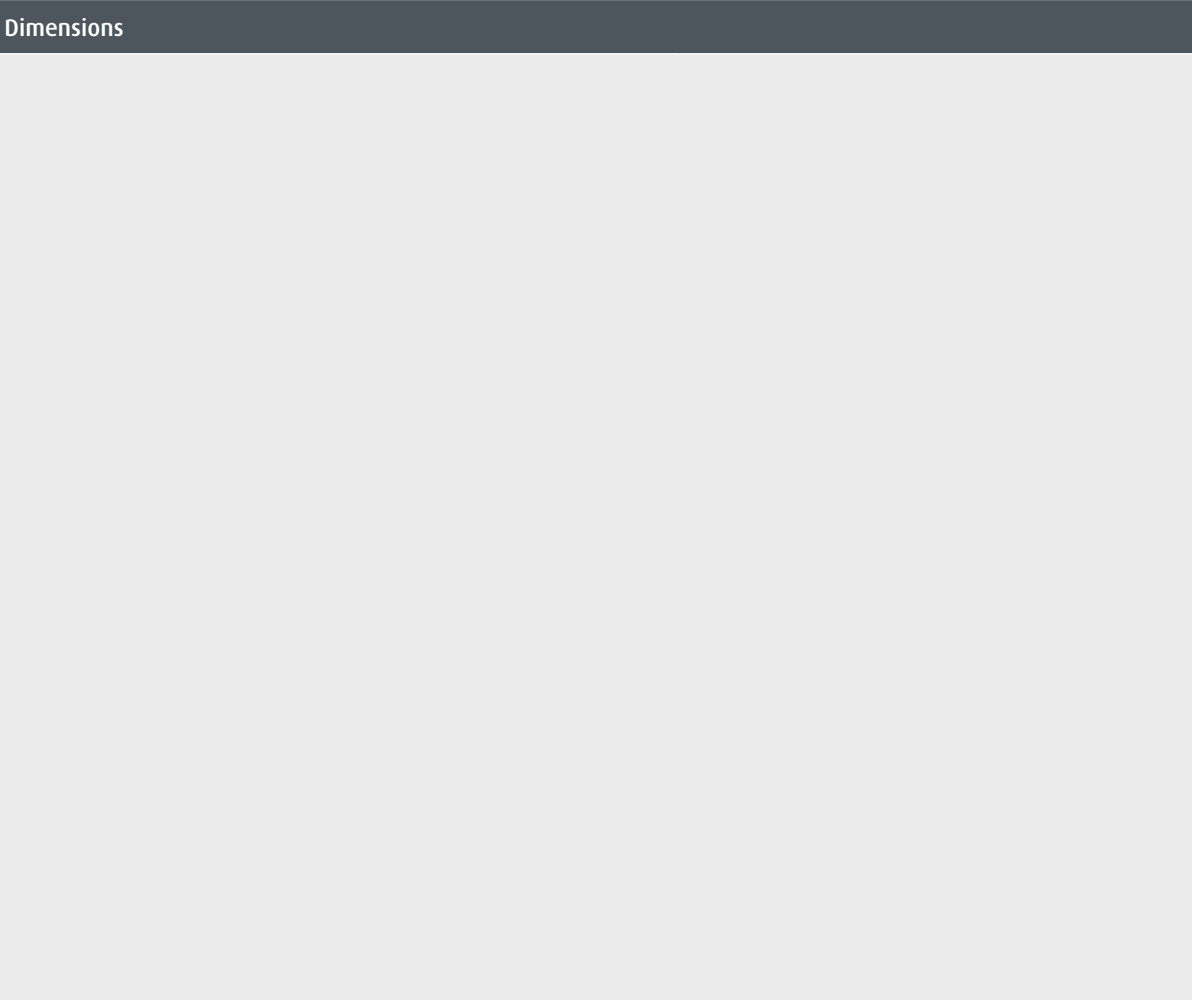
F4



In the following you will find the technical specifications of the drive shafts. They are clustered according to the related mounting flange and nominal size. First get an overview of the table data showing standard and load capacity of the shafts. Beyond that you will find the dimensions of each shaft in combination with each relevant mounting flange and nominal size. Note the short designations such as „S7“ or „D3“. In the section [Model Code & Availability], you can then check the availability of the flange and auxiliary ports and compile your desired configuration using the short designations as a segment of the model code.



CMV60	Nominal size 60	CMV170	Nominal size 170
CMV85	Nominal size 85	CMV215	Nominal size 215
CMV115	Nominal size 115	ISO SAE	Mounting flange ISO 3019-1/ SAE J744
CMV140	Nominal size 140	ISO METR	Mounting flange ISO 3019-2 metric



PLUG-IN	Mounting flange Plug-in, similar to ISO 3019-2		

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Functions/Options

ISO 3019-1/
SAE J744

S7 / CMV 60

S8 / CMV 85

S9 / CMV 85

V6 / CMV 85/115

V7 / CMV 140/170

T1 / CMV 115/140/170

T2 / CMV 170/215

DIN5480

D3 / CMV 60

D4 / CMV 60/85

D5 / CMV 85/115

D6 / CMV 115/140/170

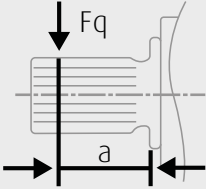
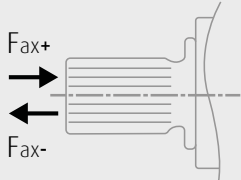
D7 / CMV 170/215

SAE J1946

F4



In the following you will find the technical specifications of the drive shafts. They are clustered according to the related mounting flange and nominal size. First get an overview of the table data showing standard and load capacity of the shafts. Beyond that you will find the dimensions of each shaft in combination with each relevant mounting flange and nominal size. Note the short designations such as „S7“ or „D3“. In the section [Model Code & Availability], you can then check the availability of the flange and auxiliary ports and compile your desired configuration using the short designations as a segment of the model code.

Specification					
Shaft end related data	Specification	Standard			
		Number of teeth			
		Spline pitch/module			
		Identification code			
Nominal size related data	Nominal size				
	Torque	Maximum torque			Nm
	Pressure	Maximum differential pressure		dpmax	bar
	Radial forces			Fpmax	N
				a	mm
	Axial forces		Motor at standstill or in rotation considering unpressurized work ports	Fax+	N
				Fax-	N
			Work ports pressurized	Fax+/p	N/bar

DIN 5480			
21			
2			
W45			
115	140	170	
826	1032	1218	
450	450	450	
16700	19500	21200	
25	25	25	
0	0	0	
1000	1210	1200	
11	12.4	15.1	

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Functions/Options

ISO 3019-1/
SAE J744

S7 / CMV 60

S8 / CMV 85

S9 / CMV 85

V6 / CMV 85/115

V7 / CMV 140/170

T1 / CMV 115/140/170

T2 / CMV 170/215

DIN5480

D3 / CMV 60

D4 / CMV 60/85

D5 / CMV 85/115

D6 / CMV 115/140/170

D7 / CMV 170/215

SAE J1946

F4



In the following you will find the technical specifications of the drive shafts. They are clustered according to the related mounting flange and nominal size. First get an overview of the table data showing standard and load capacity of the shafts. Beyond that you will find the dimensions of each shaft in combination with each relevant mounting flange and nominal size. Note the short designations such as „S7“ or „D3“. In the section [Model Code & Availability], you can then check the availability of the flange and auxiliary ports and compile your desired configuration using the short designations as a segment of the model code.

Dimensions

E4|XX

ISO SAE

Dimensions upon request

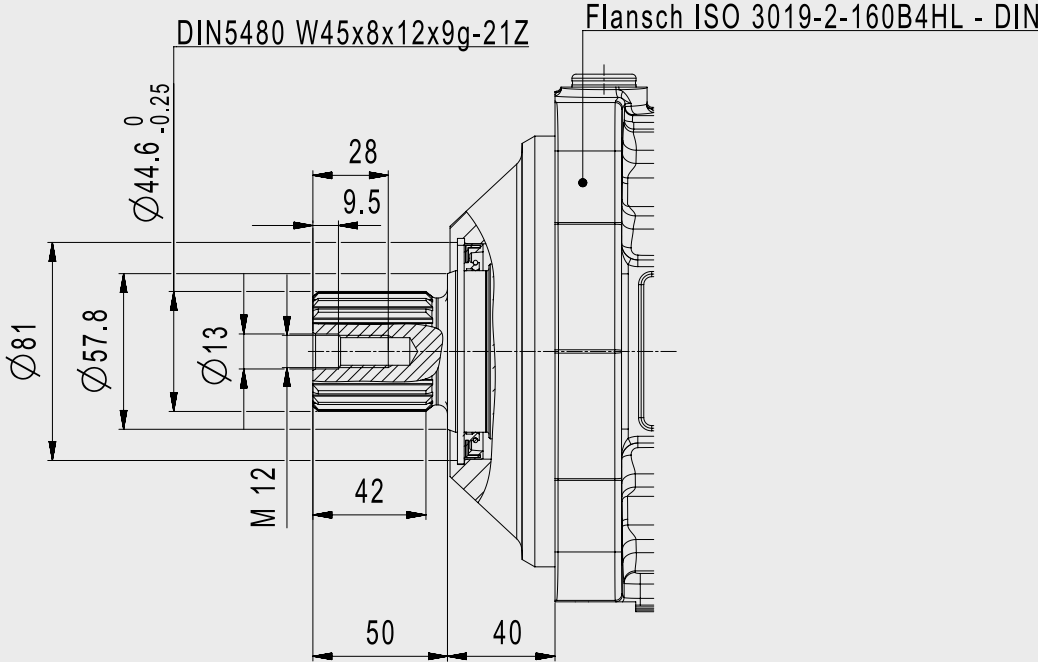
CMV60	Nominal size 60	CMV170	Nominal size 170
CMV85	Nominal size 85	CMV215	Nominal size 215
CMV115	Nominal size 115	ISO SAE	Mounting flange ISO 3019-1/ SAE J744
CMV140	Nominal size 140	ISO METR	Mounting flange ISO 3019-2 metric



Dimensions

CMV60

ISO METR



DIN5480 W45x8x12x9g-21Z

Flansch ISO 3019-2-160B4HL - DIN

Dimensions shown: Ø81, Ø57.8, Ø44.6⁰_{-0.25}, 28, 9.5, Ø13, M 12, 42, 50, 40.

PLUG-IN	Mounting flange Plug-in, similar to ISO 3019-2		

In the following you will find the technical specifications of the drive shafts. They are clustered according to the related mounting flange and nominal size. First get an overview of the table data showing standard and load capacity of the shafts. Beyond that you will find the dimensions of each shaft in combination with each relevant mounting flange and nominal size. Note the short designations such as „S7“ or „D3“. In the section [Model Code & Availability], you can then check the availability of the flange and auxiliary ports and compile your desired configuration using the short designations as a segment of the model code.

E4|XX

PLUG-IN

Dimensions
upon request

Dimensions

CMV60	Nominal size 60	CMV170	Nominal size 170
CMV85	Nominal size 85	CMV215	Nominal size 215
CMV115	Nominal size 115	ISO SAE	Mounting flange ISO 3019-1/ SAE J744
CMV140	Nominal size 140	ISO METR	Mounting flange ISO 3019-2 metric

PLUG-IN	Mounting flange Plug-in, similar to ISO 3019-2		



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Work Ports

Auxiliary Ports

Functions/Options

ISO 3019-1/
SAE J744

S7 / CMV 60

S8 / CMV 85

S9 / CMV 85

V6 / CMV 85/115

V7 / CMV 140/170

T1 / CMV 115/140/170

T2 / CMV 170/215

DIN5480

D3 / CMV 60

D4 / CMV 60/85

D5 / CMV 85/115

D6 / CMV 115/140/170

D7 / CMV 170/215

SAE J1946

F4



In the following you will find the technical specifications of the drive shafts. They are clustered according to the related mounting flange and nominal size. First get an overview of the table data showing standard and load capacity of the shafts. Beyond that you will find the dimensions of each shaft in combination with each relevant mounting flange and nominal size. Note the short designations such as „S7“ or „D3“. In the section [Model Code & Availability], you can then check the availability of the flange and auxiliary ports and compile your desired configuration using the short designations as a segment of the model code.

Dimensions	
E4 XX	ISO SAE
Dimensions upon request	

CMV60	Nominal size 60	CMV170	Nominal size 170
CMV85	Nominal size 85	CMV215	Nominal size 215
CMV115	Nominal size 115	ISO SAE	Mounting flange ISO 3019-1/ SAE J744
CMV140	Nominal size 140	ISO METR	Mounting flange ISO 3019-2 metric

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Dimensions	
CMV60	ISO METR
Dimensions upon request	

PLUG-IN	Mounting flange Plug-in, similar to ISO 3019-2		

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Functions/Options

ISO 3019-1/
SAE J744

S7 / CMV 60

S8 / CMV 85

S9 / CMV 85

V6 / CMV 85/115

V7 / CMV 140/170

T1 / CMV 115/140/170

T2 / CMV 170/215

DIN5480

D3 / CMV 60

D4 / CMV 60/85

D5 / CMV 85/115

D6 / CMV 115/140/170

D7 / CMV 170/215

SAE J1946

F4



In the following you will find the technical specifications of the drive shafts. They are clustered according to the related mounting flange and nominal size. First get an overview of the table data showing standard and load capacity of the shafts. Beyond that you will find the dimensions of each shaft in combination with each relevant mounting flange and nominal size. Note the short designations such as „S7“ or „D3“. In the section [Model Code & Availability], you can then check the availability of the flange and auxiliary ports and compile your desired configuration using the short designations as a segment of the model code.

Dimensions	
E4 XX	ISO SAE
Dimensions upon request	

CMV60	Nominal size 60	CMV170	Nominal size 170
CMV85	Nominal size 85	CMV215	Nominal size 215
CMV115	Nominal size 115	ISO SAE	Mounting flange ISO 3019-1/ SAE J744
CMV140	Nominal size 140	ISO METR	Mounting flange ISO 3019-2 metric



Dimensions	
CMV60	ISO METR
Dimensions upon request	

PLUG-IN	Mounting flange Plug-in, similar to ISO 3019-2		

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Functions/Options

ISO 3019-1/
SAE J744

S7 / CMV 60

S8 / CMV 85

S9 / CMV 85

V6 / CMV 85/115

V7 / CMV 140/170

T1 / CMV 115/140/170

T2 / CMV 170/215

DIN5480

D3 / CMV 60

D4 / CMV 60/85

D5 / CMV 85/115

D6 / CMV 115/140/170

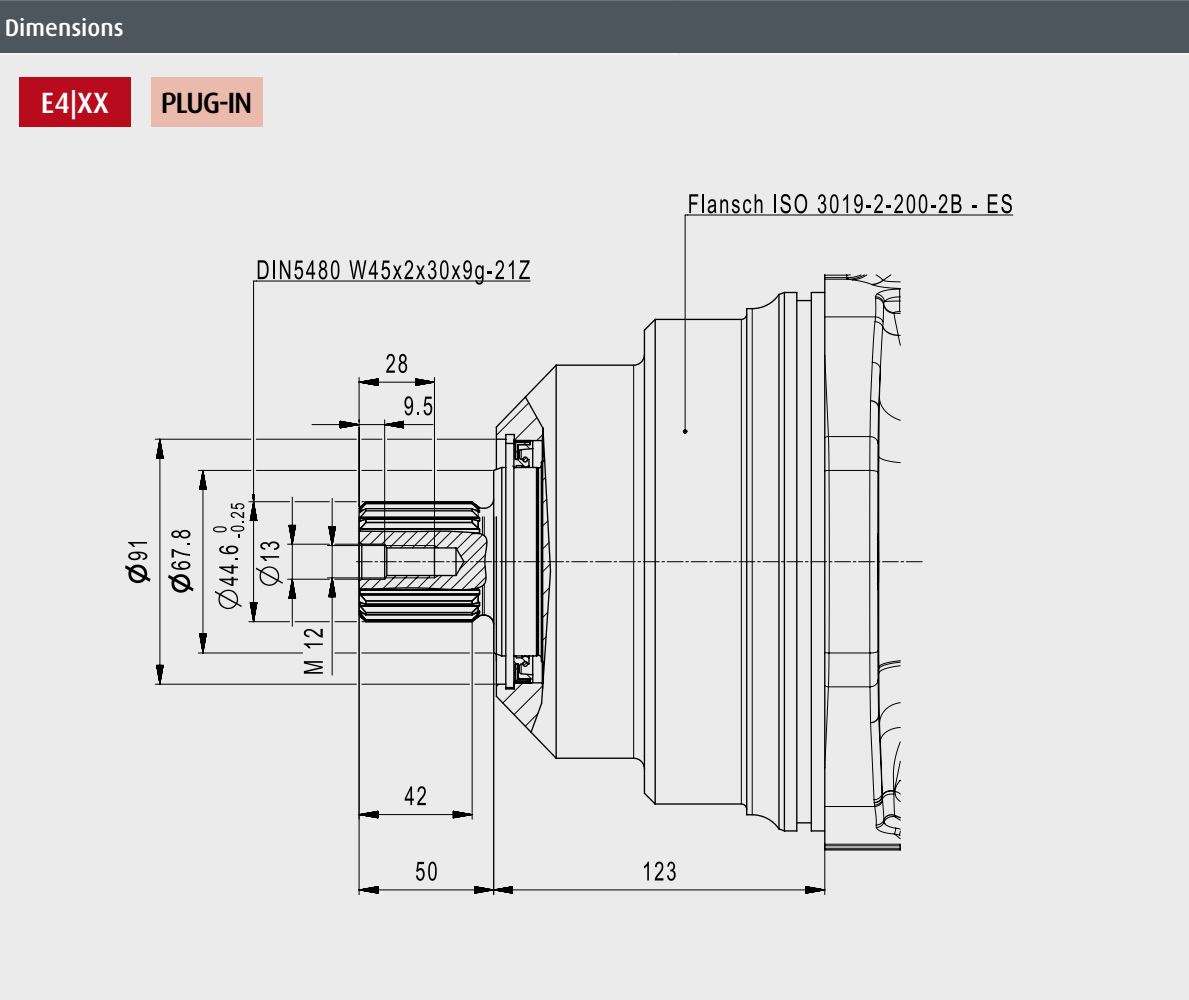
D7 / CMV 170/215

SAE J1946

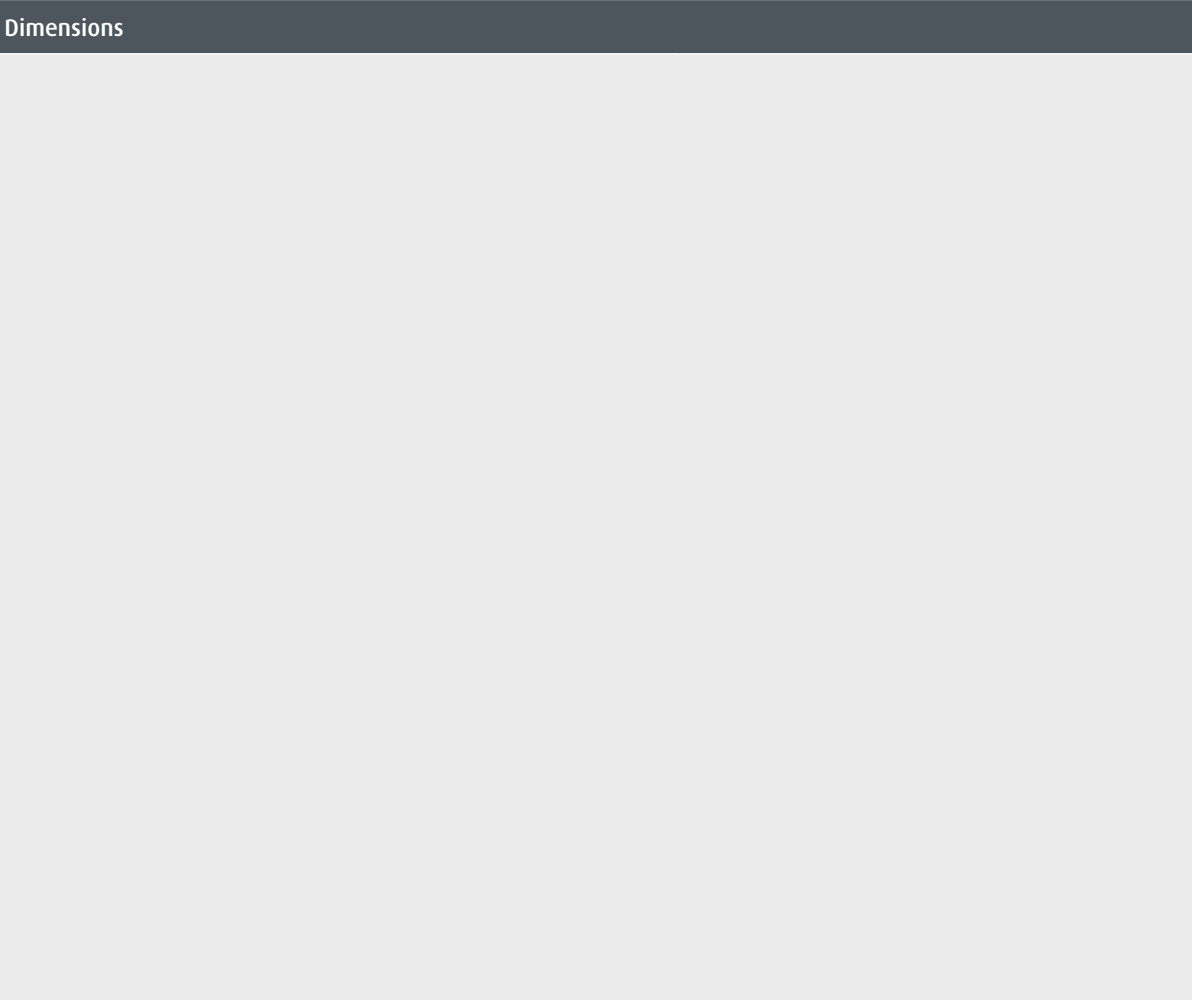
F4



In the following you will find the technical specifications of the drive shafts. They are clustered according to the related mounting flange and nominal size. First get an overview of the table data showing standard and load capacity of the shafts. Beyond that you will find the dimensions of each shaft in combination with each relevant mounting flange and nominal size. Note the short designations such as „S7“ or „D3“. In the section [Model Code & Availability], you can then check the availability of the flange and auxiliary ports and compile your desired configuration using the short designations as a segment of the model code.



CMV60	Nominal size 60	CMV170	Nominal size 170
CMV85	Nominal size 85	CMV215	Nominal size 215
CMV115	Nominal size 115	ISO SAE	Mounting flange ISO 3019-1/ SAE J744
CMV140	Nominal size 140	ISO METR	Mounting flange ISO 3019-2 metric



PLUG-IN	Mounting flange Plug-in, similar to ISO 3019-2		

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Auxiliary Ports

Functions/Options

ISO 3019-1/
SAE J744

S7 / CMV 60

S8 / CMV 85

S9 / CMV 85

V6 / CMV 85/115

V7 / CMV 140/170

T1 / CMV 115/140/170

T2 / CMV 170/215

DIN5480

D3 / CMV 60

D4 / CMV 60/85

D5 / CMV 85/115

D6 / CMV 115/140/170

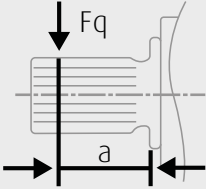
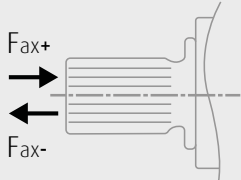
D7 / CMV 170/215

SAE J1946

F4



In the following you will find the technical specifications of the drive shafts. They are clustered according to the related mounting flange and nominal size. First get an overview of the table data showing standard and load capacity of the shafts. Beyond that you will find the dimensions of each shaft in combination with each relevant mounting flange and nominal size. Note the short designations such as „S7“ or „D3“. In the section [Model Code & Availability], you can then check the availability of the flange and auxiliary ports and compile your desired configuration using the short designations as a segment of the model code.

Specification					
Shaft end related data	Specification	Standard			
		Number of teeth			
		Spline pitch/module			
		Identification code			
Nominal size related data	Nominal size				
	Torque	Maximum torque			Nm
	Pressure	Maximum differential pressure		dpmax	bar
	Radial forces			Fpmax	N
				a	mm
	Axial forces		Motor at standstill or in rotation considering unpressurized work ports	Fax+	N
				Fax-	N
			Work ports pressurized	Fax+/p	N/bar

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DIN 5480		
24		
2		
W50		
170	215	
1218	1561	
450	450	
21200	25000	
27.5	27.5	
0	0	
1200	1250	
15.1	17	

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Auxiliary Ports

Functions/Options

ISO 3019-1/
SAE J744

S7 / CMV 60

S8 / CMV 85

S9 / CMV 85

V6 / CMV 85/115

V7 / CMV 140/170

T1 / CMV 115/140/170

T2 / CMV 170/215

DIN5480

D3 / CMV 60

D4 / CMV 60/85

D5 / CMV 85/115

D6 / CMV 115/140/170

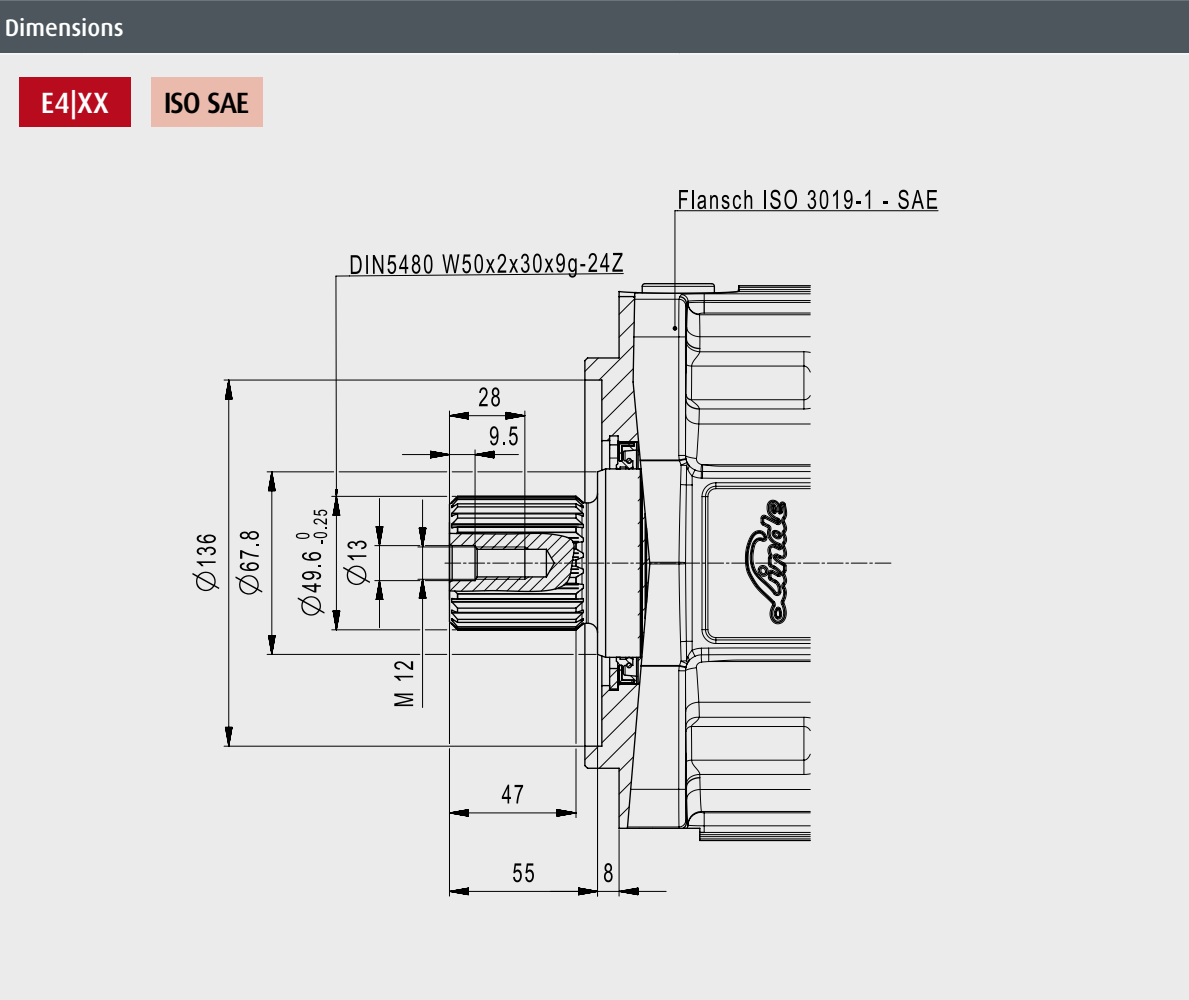
D7 / CMV 170/215

SAE J1946

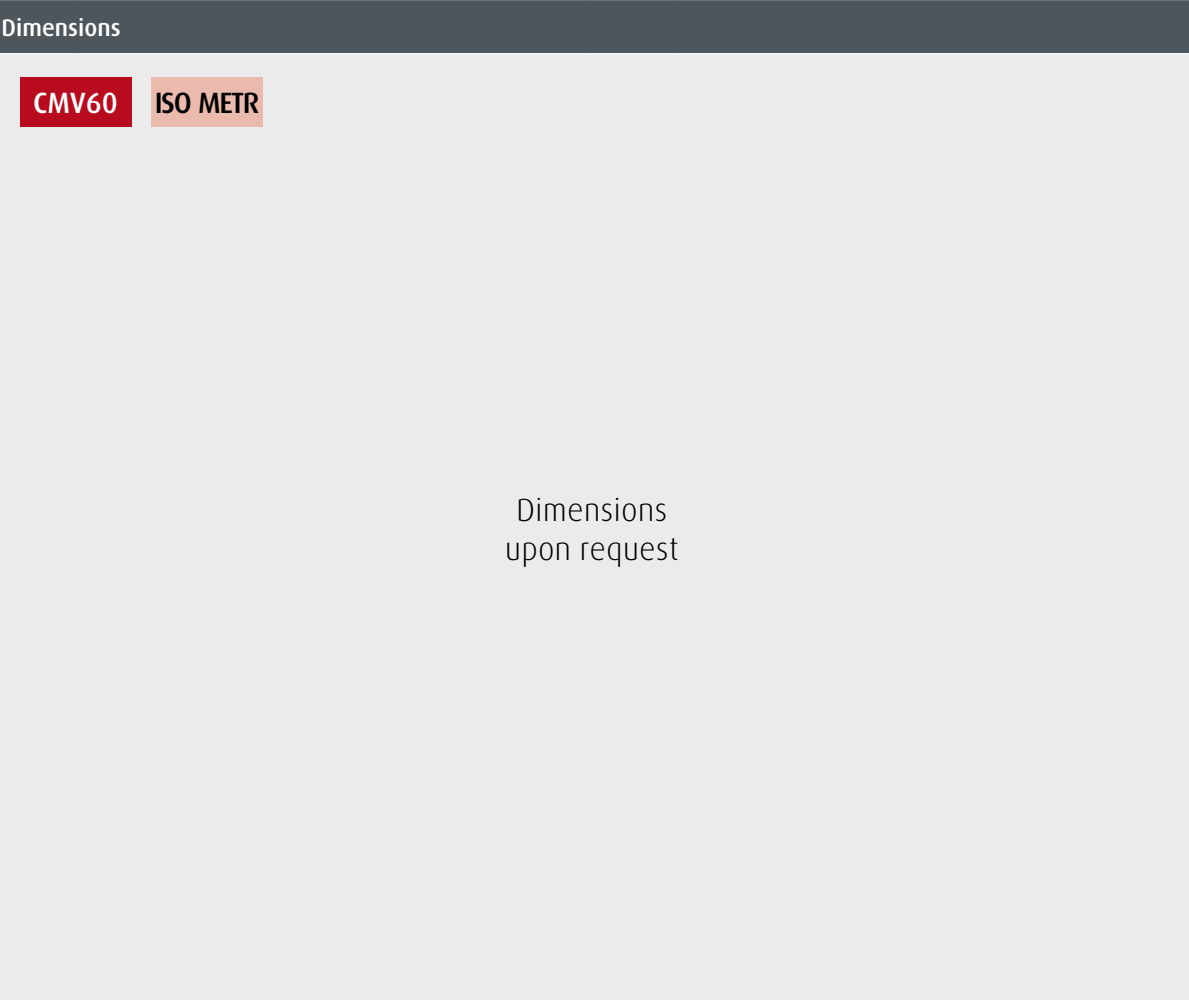
F4



In the following you will find the technical specifications of the drive shafts. They are clustered according to the related mounting flange and nominal size. First get an overview of the table data showing standard and load capacity of the shafts. Beyond that you will find the dimensions of each shaft in combination with each relevant mounting flange and nominal size. Note the short designations such as „S7“ or „D3“. In the section [Model Code & Availability], you can then check the availability of the flange and auxiliary ports and compile your desired configuration using the short designations as a segment of the model code.



CMV60	Nominal size 60	CMV170	Nominal size 170
CMV85	Nominal size 85	CMV215	Nominal size 215
CMV115	Nominal size 115	ISO SAE	Mounting flange ISO 3019-1/ SAE J744
CMV140	Nominal size 140	ISO METR	Mounting flange ISO 3019-2 metric



PLUG-IN	Mounting flange Plug-in, similar to ISO 3019-2		

In the following you will find the technical specifications of the drive shafts. They are clustered according to the related mounting flange and nominal size. First get an overview of the table data showing standard and load capacity of the shafts. Beyond that you will find the dimensions of each shaft in combination with each relevant mounting flange and nominal size. Note the short designations such as „S7“ or „D3“. In the section [Model Code & Availability], you can then check the availability of the flange and auxiliary ports and compile your desired configuration using the short designations as a segment of the model code.

The image shows a presentation slide with a dark blue header bar at the top. The header bar contains the word "Dimensions" in white text on the left. Below the header, there are two buttons in the top left corner: a red button with the text "E4|XX" and an orange button with the text "PLUG-IN". The main body of the slide is a light gray color. In the lower center of the slide, the text "Dimensions upon request" is displayed in a dark gray, sans-serif font.

CMV60	Nominal size 60	CMV170	Nominal size 170
CMV85	Nominal size 85	CMV215	Nominal size 215
CMV115	Nominal size 115	ISO SAE	Mounting flange ISO 3019-1/ SAE J744
CMV140	Nominal size 140	ISO METR	Mounting flange ISO 3019-2 metric

Dimensions

PLUG-IN	Mounting flange Plug-in, similar to ISO 3019-2		



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Functions/Options

ISO 3019-1/
SAE J744

S7 / CMV 60

S8 / CMV 85

S9 / CMV 85

V6 / CMV 85/115

V7 / CMV 140/170

T1 / CMV 115/140/170

T2 / CMV 170/215

DIN5480

D3 / CMV 60

D4 / CMV 60/85

D5 / CMV 85/115

D6 / CMV 115/140/170

D7 / CMV 170/215

SAE J1946

F4



In the following you will find the technical specifications of the drive shafts. They are clustered according to the related mounting flange and nominal size. First get an overview of the table data showing standard and load capacity of the shafts. Beyond that you will find the dimensions of each shaft in combination with each relevant mounting flange and nominal size. Note the short designations such as „S7“ or „D3“. In the section [Model Code & Availability], you can then check the availability of the flange and auxiliary ports and compile your desired configuration using the short designations as a segment of the model code.

Dimensions

E4|XX

ISO SAE

Dimensions upon request

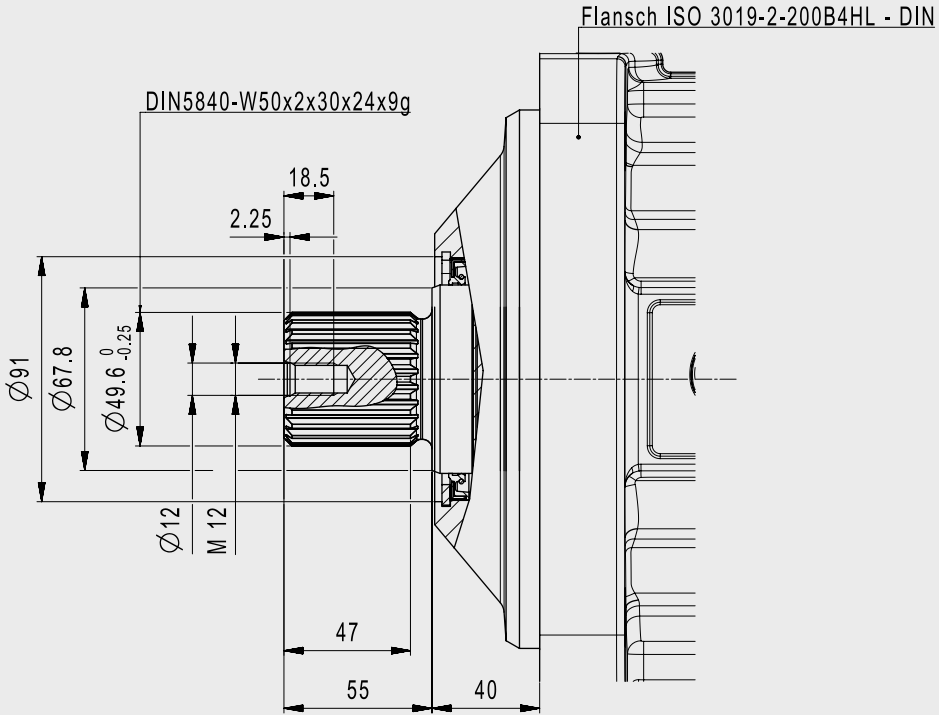
CMV60	Nominal size 60	CMV170	Nominal size 170
CMV85	Nominal size 85	CMV215	Nominal size 215
CMV115	Nominal size 115	ISO SAE	Mounting flange ISO 3019-1/ SAE J744
CMV140	Nominal size 140	ISO METR	Mounting flange ISO 3019-2 metric



Dimensions

CMV60

ISO METR



PLUG-IN	Mounting flange Plug-in, similar to ISO 3019-2		

In the following you will find the technical specifications of the drive shafts. They are clustered according to the related mounting flange and nominal size. First get an overview of the table data showing standard and load capacity of the shafts. Beyond that you will find the dimensions of each shaft in combination with each relevant mounting flange and nominal size. Note the short designations such as „S7“ or „D3“. In the section [Model Code & Availability], you can then check the availability of the flange and auxiliary ports and compile your desired configuration using the short designations as a segment of the model code.

The image shows a presentation slide with a dark blue header bar at the top. The header bar contains the word "Dimensions" in white text on the left. Below the header, there are two buttons in the top left corner: a red button with the text "E4|XX" and an orange button with the text "PLUG-IN". The main body of the slide is a light gray color. In the lower center of the slide, the text "Dimensions upon request" is displayed in a dark gray, sans-serif font.

CMV60	Nominal size 60	CMV170	Nominal size 170
CMV85	Nominal size 85	CMV215	Nominal size 215
CMV115	Nominal size 115	ISO SAE	Mounting flange ISO 3019-1/ SAE J744
CMV140	Nominal size 140	ISO METR	Mounting flange ISO 3019-2 metric

Dimensions

PLUG-IN	Mounting flange Plug-in, similar to ISO 3019-2		



[illegible]

Technical Specification | Drive Shafts / Comp. Flanges | SAE J1946 | F4

In the following you will find the technical specifications of the drive shafts. They are clustered according to the related mounting flange and nominal size. First get an overview of the table data showing standard and load capacity of the shafts. Beyond that you will find the dimensions of each shaft in combination with each relevant mounting flange and nominal size. Note the short designations such as „S7“ or „D3“. In the section [Model Code & Availability], you can then check the availability of the flange and auxiliary ports and compile your desired configuration using the short designations as a segment of the model code.

Dimensions
Dimensions upon request

CMV60	Nominal size 60	CMV170	Nominal size 170
CMV85	Nominal size 85	CMV215	Nominal size 215
CMV115	Nominal size 115	ISO SAE	Mounting flange ISO 3019-1/ SAE J744
CMV140	Nominal size 140	ISO METR	Mounting flange ISO 3019-2 metric

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Dimensions
Dimensions upon request

PLUG-IN	Mounting flange Plug-in, similar to ISO 3019-2		



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ISO 6162-2

In combination with
ISO 3019-1 / SAE J744

CMV 60-215

In combination with
ISO 3019-2 metric

CMV 60-215

In combination with
PLUG-IN, SIM. TO ISO 3019-2

CMV 60-215

SIDE PORTS
ISO 6162-2

In combination with
ISO 3019-1 / SAE J744

CMV 60-215

In combination with
ISO 3019-2 metric

CMV 60-215

In combination with
PLUG-IN, SIM. TO ISO 3019-2

CMV 60-215

RADIAL TWIN PORTS
ISO 6162-2

In combination with
ISO 3019-1 / SAE J744

CMV 60-215

In combination with
ISO 3019-2 metric

CMV 60-215

In combination with
PLUG-IN, SIM. TO ISO 3019-2

CMV 60-215



In the following you will find the technical specifications of the work ports. They are clustered according to the related mounting flange and nominal size. In the section [Model Code & Availability], you can then check the availability of the work ports in combination with additional functions integrated in the port plate housing. So please have a look at model-code [item 10. Port Plate housing] and compile your desired configuration.

Dimensions - Side view	
Dimensions upon request	Dimensions upon request



Dimensions - Back view	
Dimensions upon request	Dimensions upon request

In the following you will find the technical specifications of the work ports. They are clustered according to the related mounting flange and nominal size. In the section [Model Code & Availability], you can then check the availability of the work ports in combination with additional functions integrated in the port plate housing. So please have a look at model-code [item 10. Port Plate housing] and compile your desired configuration.

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Functions/Options

**In combination with
ISO 3019-1 / SAE J744**

In combination with
ISO 3019-2 metric

In combination with
PLUG-IN, SIM. TO ISO 3019-2

SIDE PORTS
ISO 6162-2

**In combination with
ISO 3019-1 / SAE J744**

In combination with
ISO 3019-2 metric

In combination with
PLUG-IN, SIM. TO ISO 3019-2

RADIAL TWIN PORTS ISO 6162-2

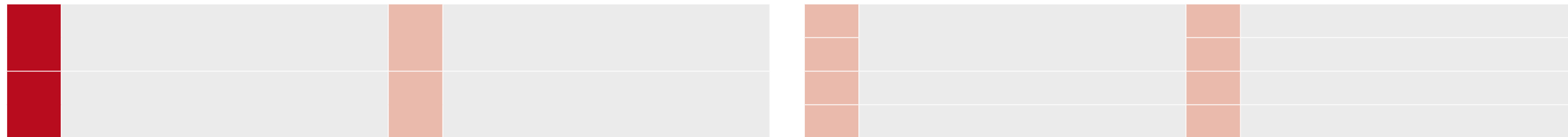
**In combination with
ISO 3019-1 / SAE J744**

In combination with
ISO 3019-2 metric

In combination with
PLUG-IN, SIM. TO ISO 3019-2

Dimensions
upon request

Dimensions
upon request



In the following you will find the technical specifications of the work ports. They are clustered according to the related mounting flange and nominal size. In the section [Model Code & Availability], you can then check the availability of the work ports in combination with additional functions integrated in the port plate housing. So please have a look at model-code [item 10. Port Plate housing] and compile your desired configuration.

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Functions/Options

**In combination with
ISO 3019-1 / SAE J744**

CMV 60-215

In combination with
ISO 3019-2 metric

CMV 60-215

In combination with
PLUG-IN, SIM. TO ISO 3019-2

CMV 60-215

**In combination with
ISO 3019-1 / SAE J744**

CMV 60-215

In combination with
ISO 3019-2 metric

CMV 60-215

In combination with
PLUG-IN, SIM. TO ISO 3019-2

CMV 60-215

In combination with
ISO 3019-1 / SAE J744

CMV 60-215

In combination with
ISO 3019-2 metric

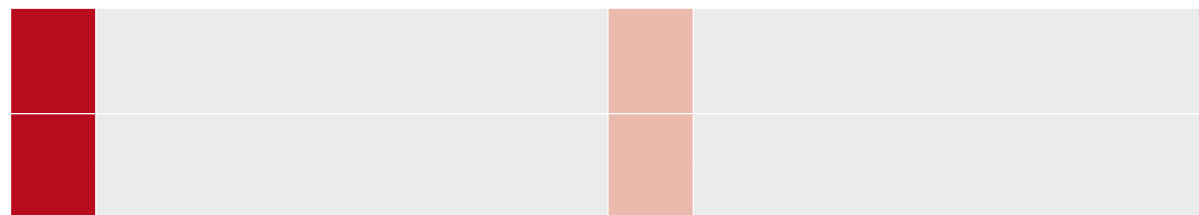
CMV 60-215

In combination with
PLUG-IN, SIM. TO ISO 3019-2

CMV 60-215

Dimensions
upon request

Dimensions
upon request



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Functions/Options

AXIAL TWIN PORTS
ISO 6162-2

In combination with
ISO 3019-1 / SAE J744

CMV 60-215

In combination with
ISO 3019-2 metric

CMV 60-215

In combination with
PLUG-IN, SIM. TO ISO 3019-2

CMV 60-215

SIDE PORTS
ISO 6162-2

In combination with
ISO 3019-1 / SAE J744

CMV 60-215

In combination with
ISO 3019-2 metric

CMV 60-215

In combination with
PLUG-IN, SIM. TO ISO 3019-2

CMV 60-215

RADIAL TWIN PORTS
ISO 6162-2

In combination with
ISO 3019-1 / SAE J744

CMV 60-215

In combination with
ISO 3019-2 metric

CMV 60-215

In combination with
PLUG-IN, SIM. TO ISO 3019-2

CMV 60-215



In the following you will find the technical specifications of the work ports. They are clustered according to the related mounting flange and nominal size. In the section [Model Code & Availability], you can then check the availability of the work ports in combination with additional functions integrated in the port plate housing. So please have a look at model-code [item 10. Port Plate housing] and compile your desired configuration.

Dimensions - Side view	
Dimensions upon request	Dimensions upon request



Dimensions - Back view	
Dimensions upon request	Dimensions upon request

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Functions/Options

AXIAL TWIN PORTS
ISO 6162-2

In combination with
ISO 3019-1 / SAE J744

CMV 60-215

In combination with
ISO 3019-2 metric

CMV 60-215

In combination with
PLUG-IN, SIM. TO ISO 3019-2

CMV 60-215

SIDE PORTS
ISO 6162-2

In combination with
ISO 3019-1 / SAE J744

CMV 60-215

In combination with
ISO 3019-2 metric

CMV 60-215

In combination with
PLUG-IN, SIM. TO ISO 3019-2

CMV 60-215

RADIAL TWIN PORTS
ISO 6162-2

In combination with
ISO 3019-1 / SAE J744

CMV 60-215

In combination with
ISO 3019-2 metric

CMV 60-215

In combination with
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CMV 60-215



In the following you will find the technical specifications of the work ports. They are clustered according to the related mounting flange and nominal size. In the section [Model Code & Availability], you can then check the availability of the work ports in combination with additional functions integrated in the port plate housing. So please have a look at model-code [item 10. Port Plate housing] and compile your desired configuration.

Dimensions - Side view	
Dimensions upon request	Dimensions upon request



Dimensions - Back view	
Dimensions upon request	Dimensions upon request

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RADIAL TWIN PORTS
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CMV 60-215



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CMV 60-215

RADIAL TWIN PORTS
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CMV 60-215

In combination with
ISO 3019-2 metric

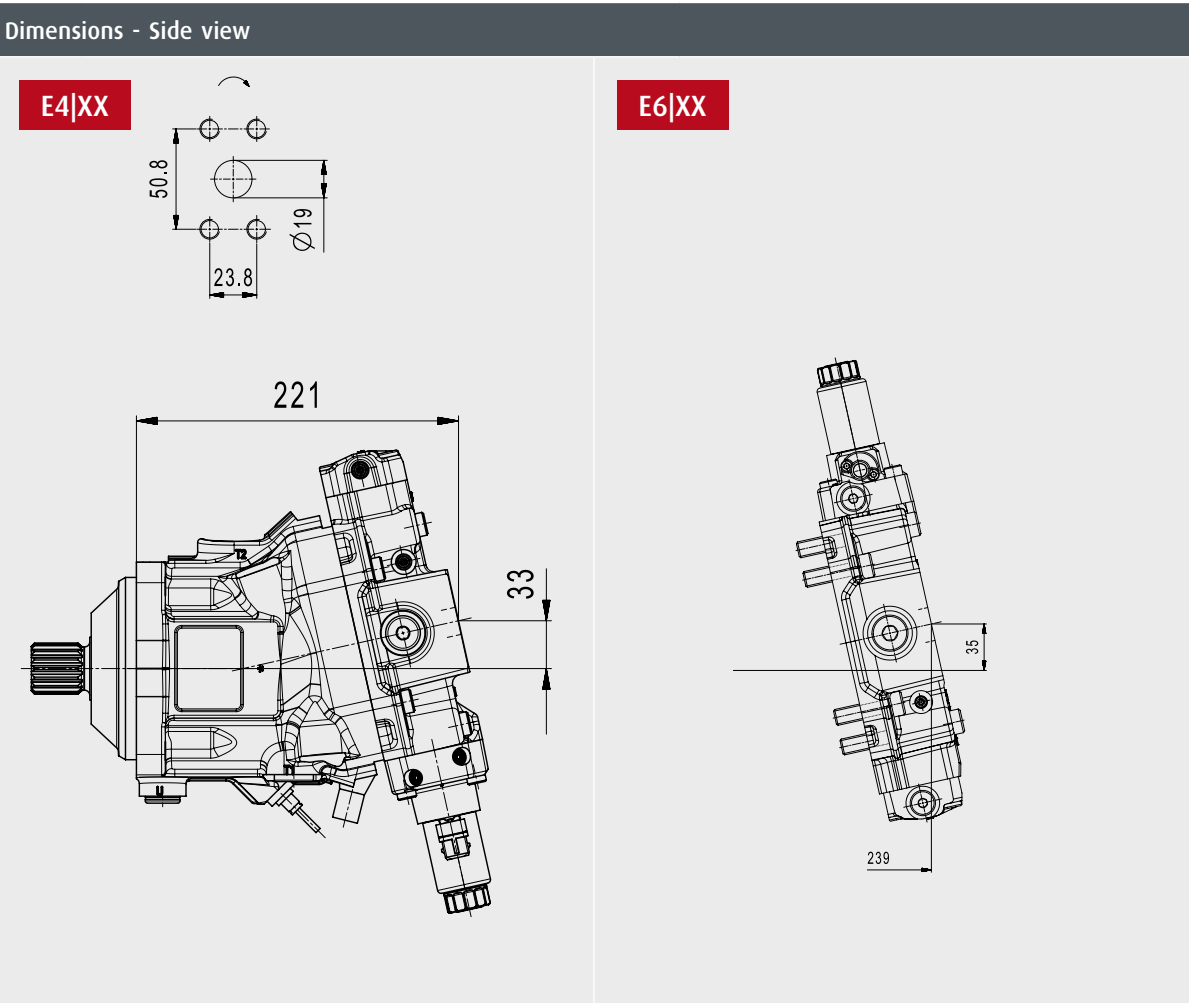
CMV 60-215

In combination with
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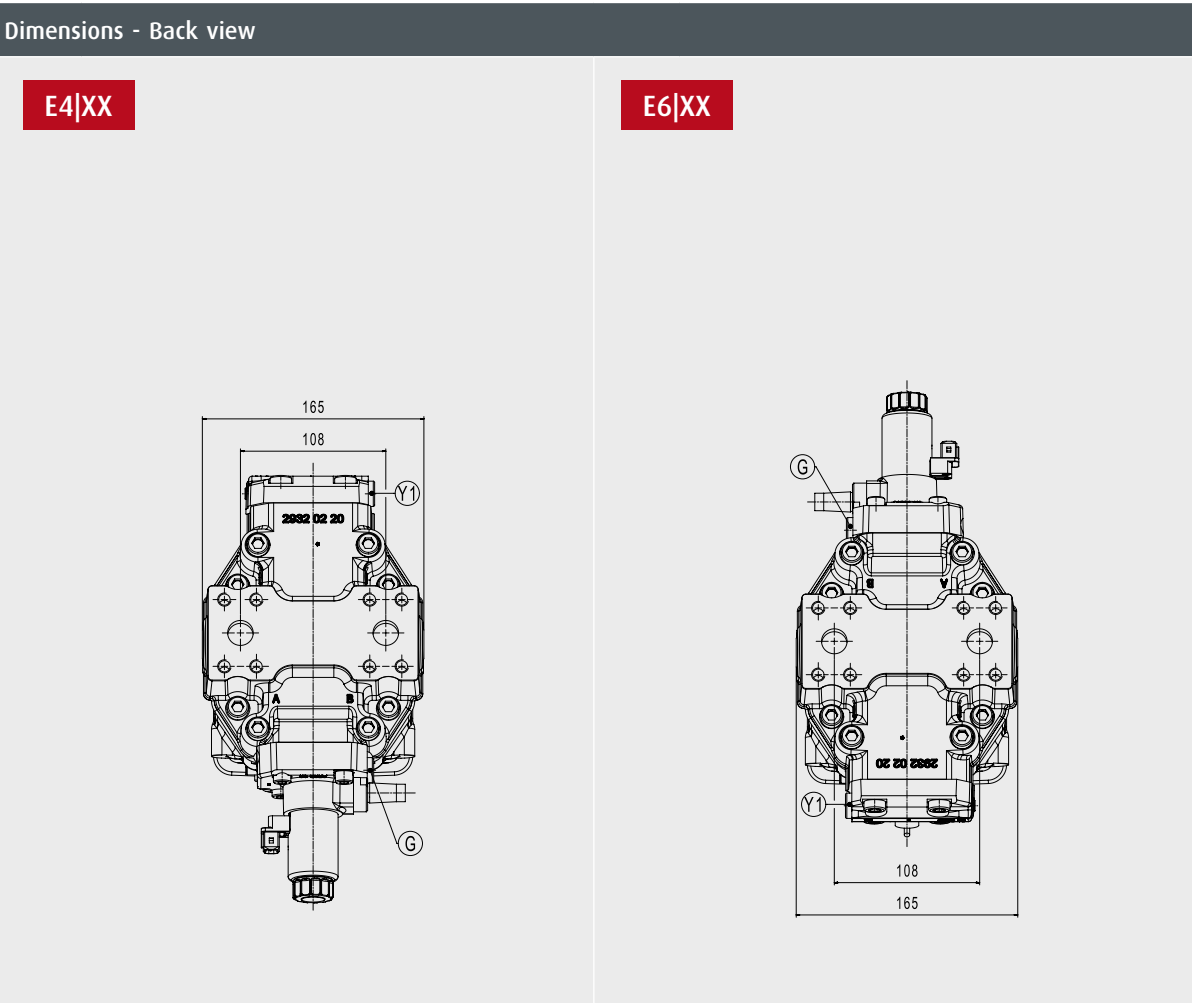
CMV 60-215



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E4 XX	Configuration with negative control (E4 displacement control). The other options shown do not determine the position of the w. ports and are chosen as an example.	A	High pressure work port, ISO 6162-2, If pressurised - motor runs clockwise Nom. pres.: 450 bar, max. press.: 500 bar
E6 XX	Configuration with positive control (E6 displacement control). The other options shown do not determine the position of the w. ports and are chosen as an example.	B	High pressure work port, ISO 6162-2, If pressurised - motor runs counter-clockwise Nom. pres.: 450 bar, max. press.: 500 bar



AX	Pressure equalization port	G	Ext. control pressure supply, ISO 6149
BX		U	Bearing flush port, ISO 6149
T1	Drain / vent port, ISO 6149	Y1	Measuring port, ISO 6149
T2	Drain / vent port, ISO 6149		

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In combination with
ISO 3019-2 metric

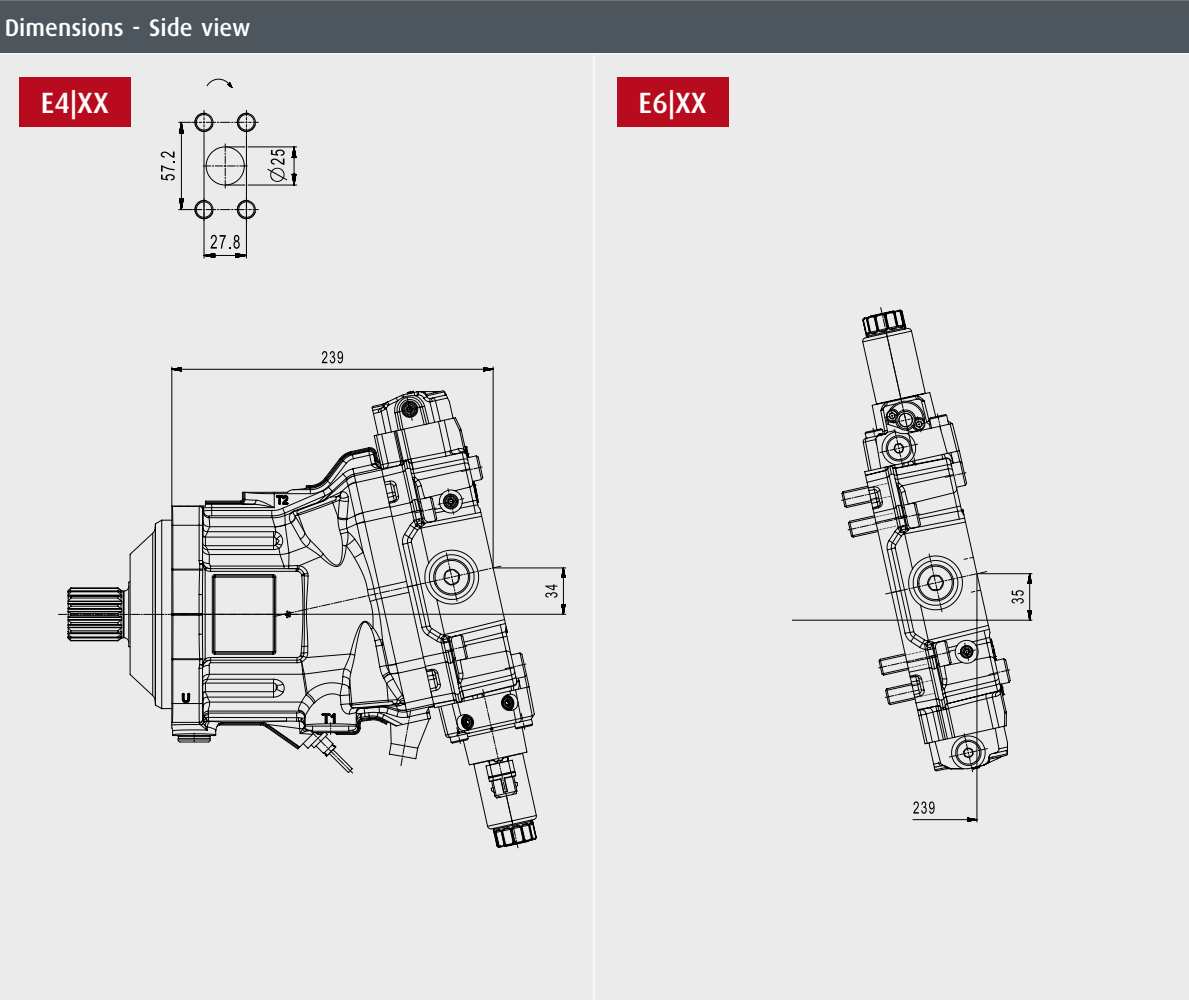
CMV 60-215

In combination with
PLUG-IN, SIM. TO ISO 3019-2

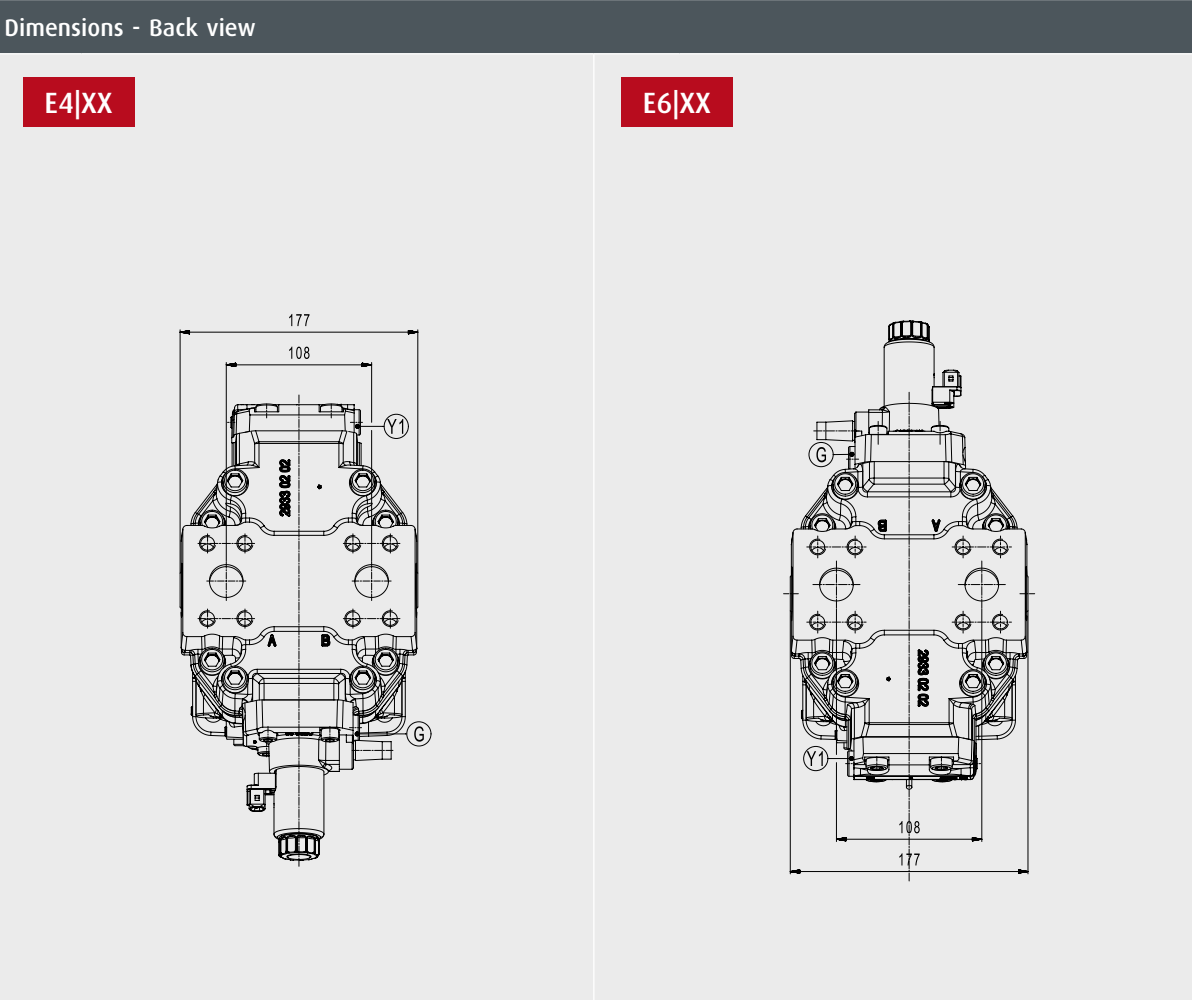
CMV 60-215



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E4 XX	Configuration with negative control (E4 displacement control). The other options shown do not determine the position of the w. ports and are chosen as an example.	A	High pressure work port, ISO 6162-2, SAE 1" If pressurised - motor runs clockwise Nom. pres.: 450 bar, max. press.: 500 bar
E6 XX	Configuration with positive control (E6 displacement control). The other options shown do not determine the position of the w. ports and are chosen as an example.	B	High pressure work port, ISO 6162-2, SAE 1" If pressurised - motor runs counter-clockwise Nom. pres.: 450 bar, max. press.: 500 bar



AX	Pressure equalization port	G	Ext. control pressure supply, ISO 6149, M14x1.5, 11.5 mm deep
BX		U	Bearing flush port, ISO 6149, M18x1.5, 14.5 mm deep
T1	Drain / vent port, ISO 6149, M22x1.5, 15.5 mm deep	Y1	Measuring port, ISO 6149, M14x1.5, 11.5 mm deep
T2	Drain / vent port, ISO 6149, M27x2, 19 mm deep		

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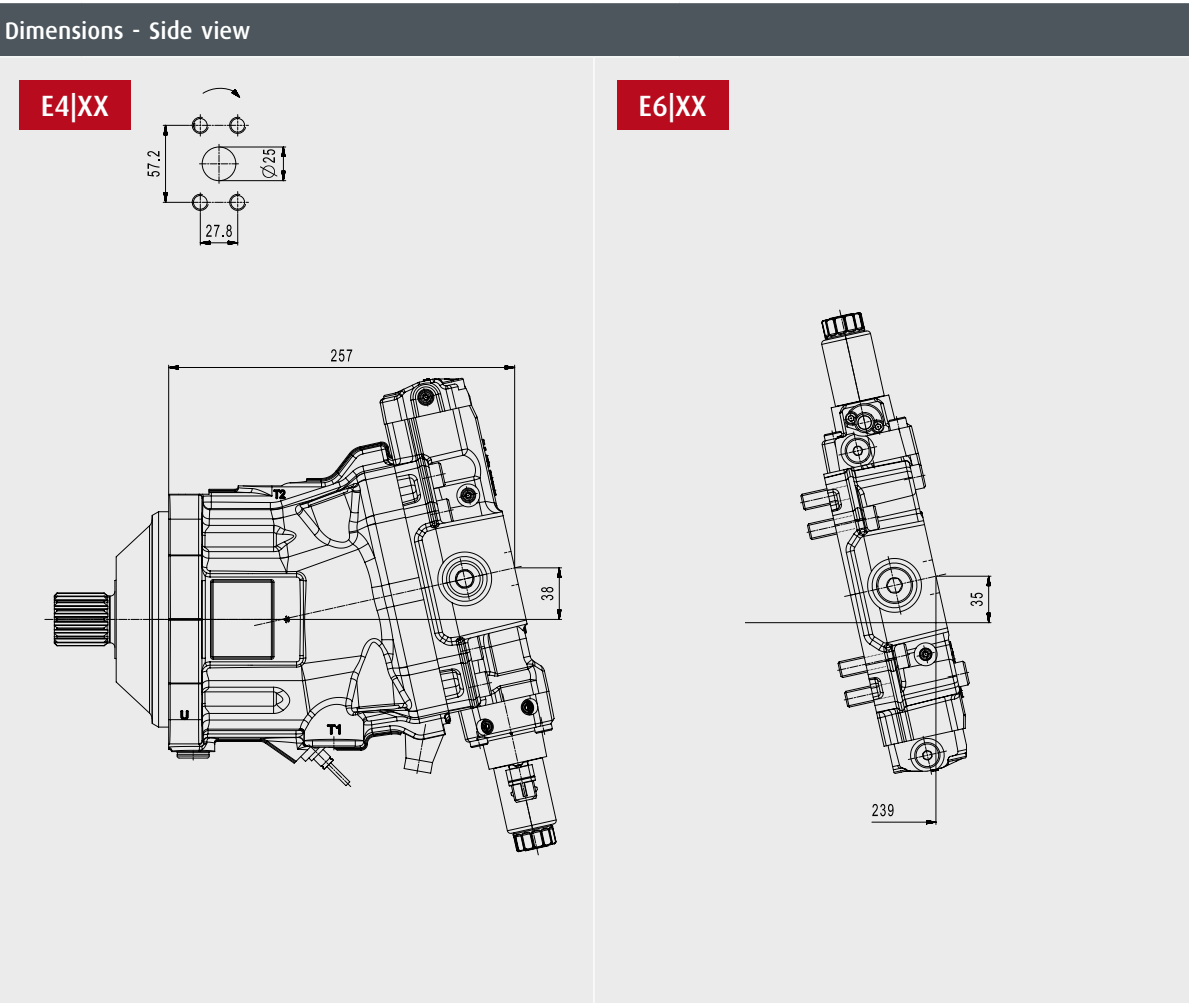
CMV 60-215

In combination with
PLUG-IN, SIM. TO ISO 3019-2

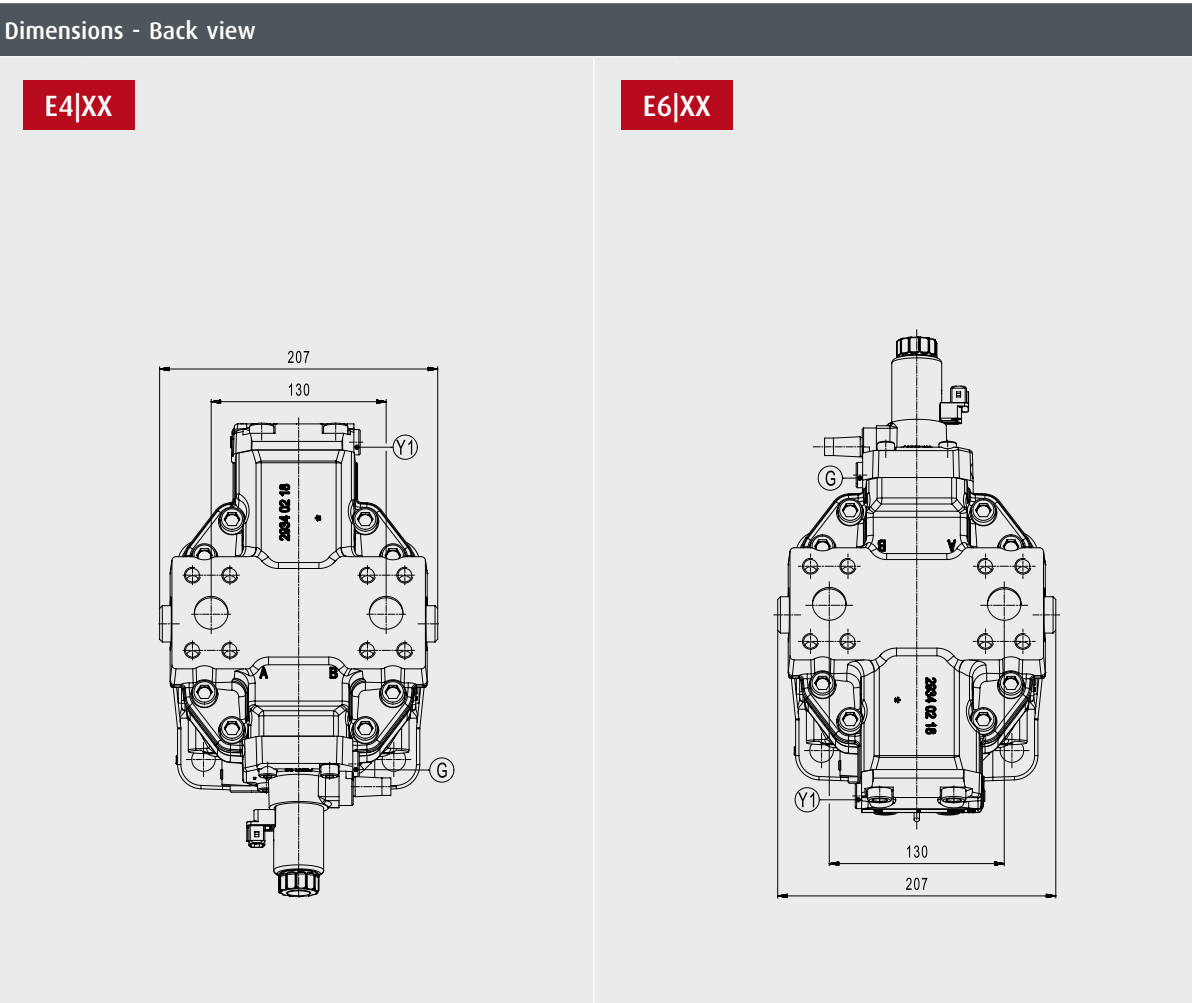
CMV 60-215



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E4 XX	Configuration with negative control (E4 displacement control). The other options shown do not determine the position of the w. ports and are chosen as an example.	A	High pressure work port, ISO 6162-2, SAE 1" If pressurised - motor runs clockwise Nom. pres.: 450 bar, max. press.: 500 bar
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AX	Pressure equalization port	G	Ext. control pressure supply, ISO 6149, M14x1.5, 11.5 mm deep
BX		U	Bearing flush port, ISO 6149, M18x1.5, 14.5 mm deep
T1	Drain / vent port, ISO 6149, M27x2, 19 mm deep	Y1	Measuring port, ISO 6149, M14x1.5, 11.5 mm deep
T2	Drain / vent port, ISO 6149, M33x2, 19 mm deep		

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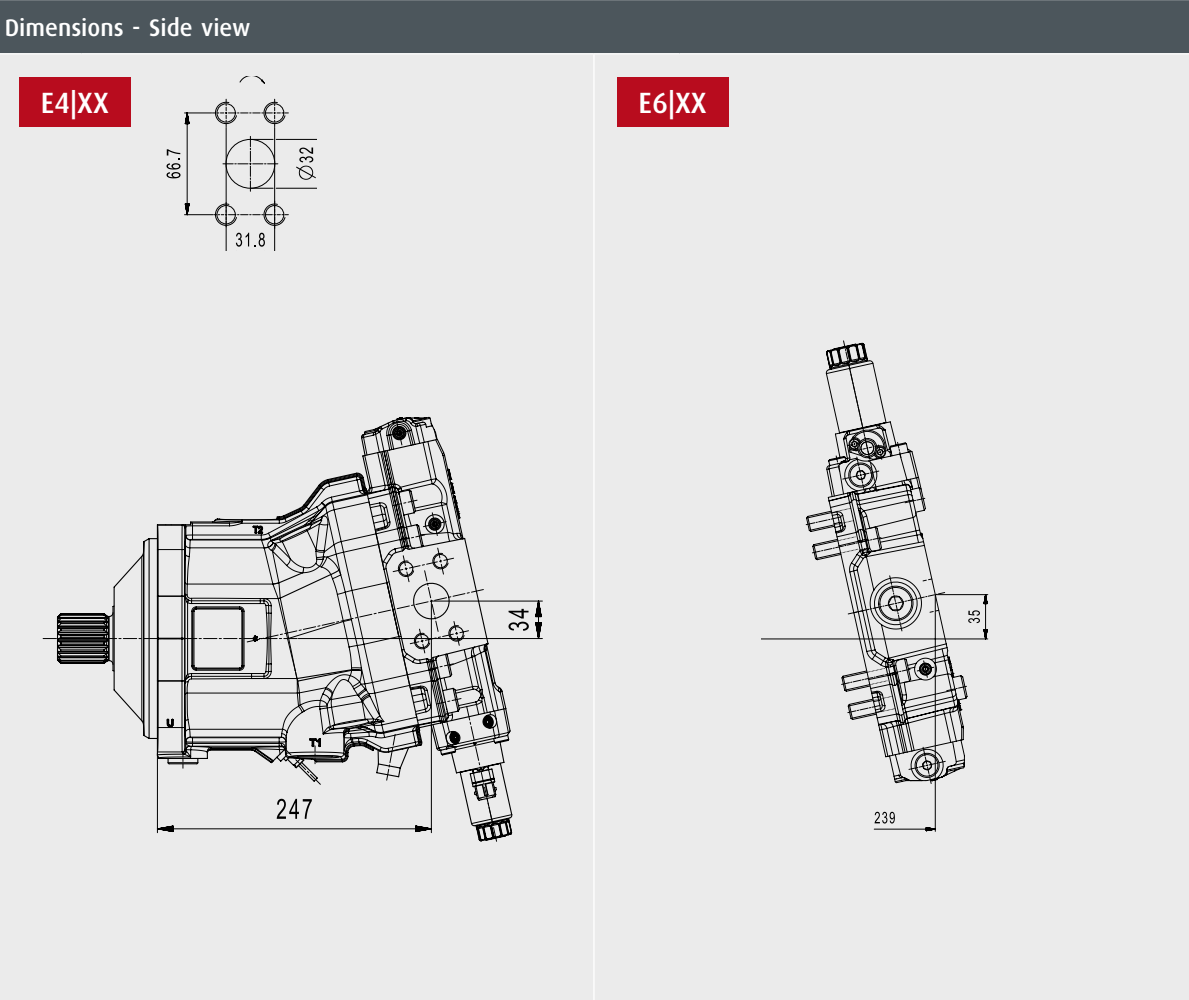
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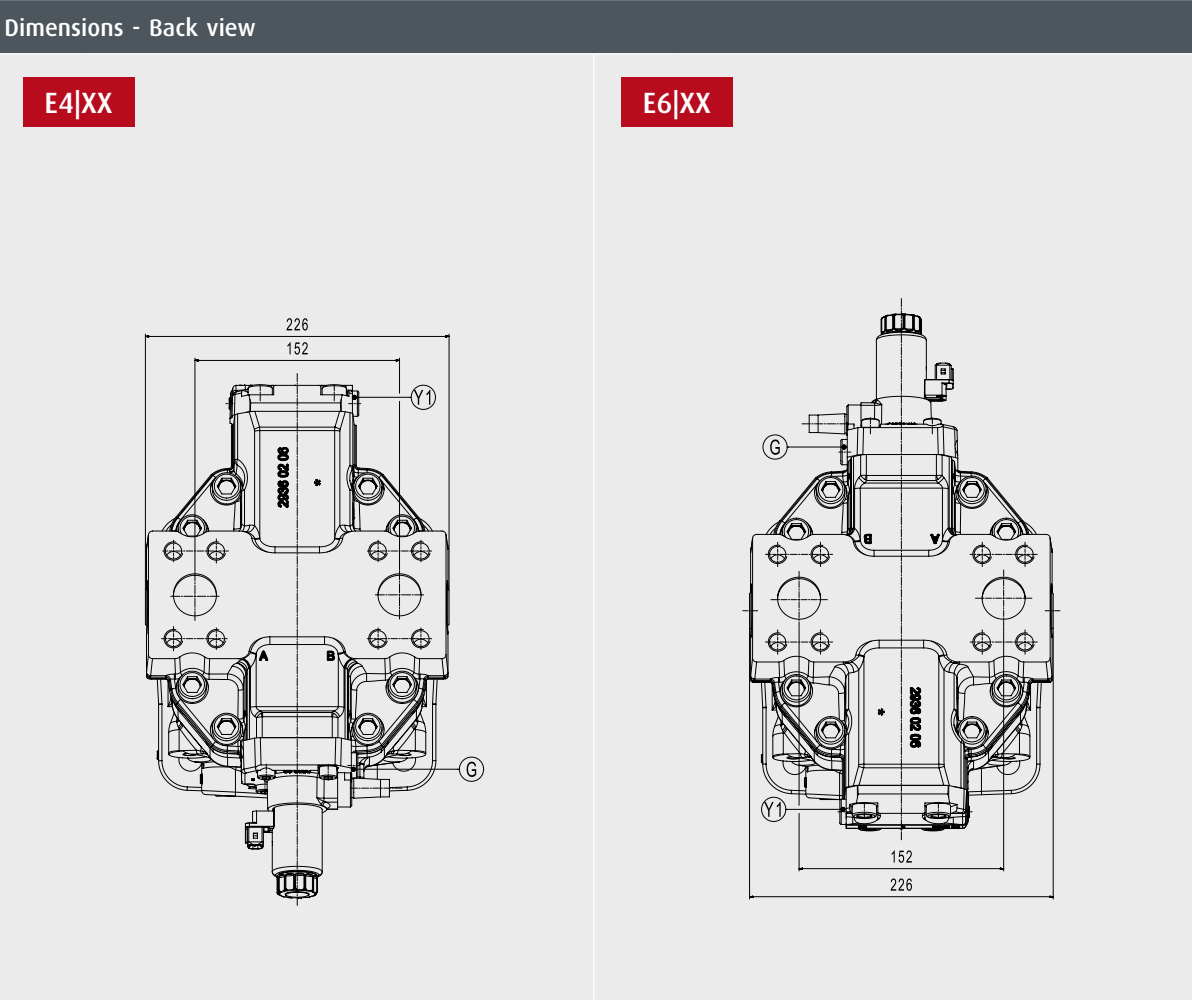
CMV 60-215



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E6 XX	Configuration with positive control (E6 displacement control). The other options shown do not determine the position of the w. ports and are chosen as an example.	B	High pressure work port, ISO 6162-2, SAE 1 1/4" If pressurised - motor runs counter-clockwise Nom. pres.: 450 bar, max. press.: 500 bar



AX	Pressure equalization port	G	Ext. control pressure supply, ISO 6149, M14x1.5, 11.5 mm deep
BX		U	Bearing flush port, ISO 6149, M22x1.5, 15.5 mm deep
T1	Drain / vent port, ISO 6149, M27x2, 19 mm deep	Y1	Measuring port, ISO 6149, M14x1.5, 11.5 mm deep
T2	Drain / vent port, ISO 6149, M33x2, 19 mm deep		

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CMV 60-215

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ISO 3019-2 metric

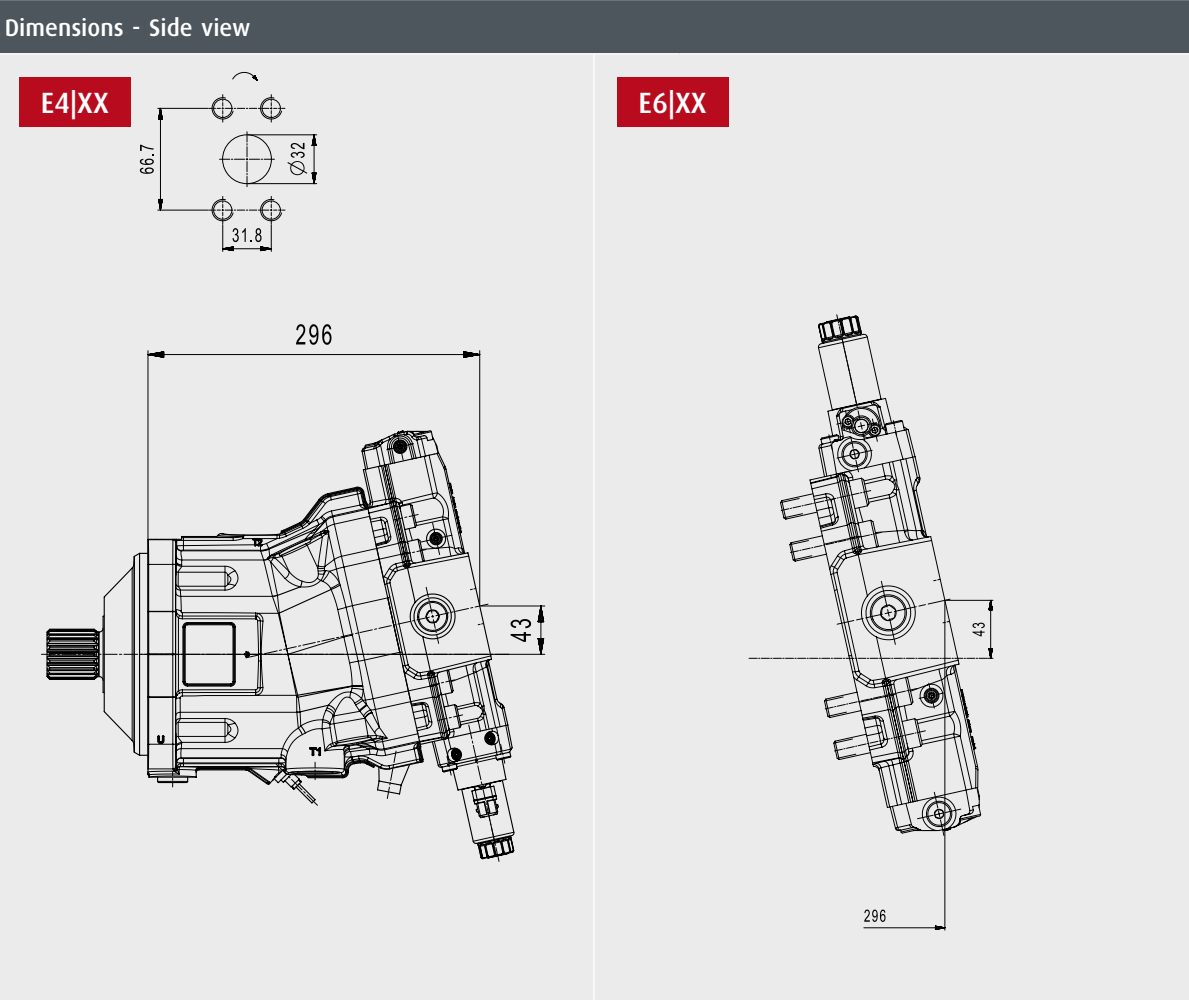
CMV 60-215

In combination with
PLUG-IN, SIM. TO ISO 3019-2

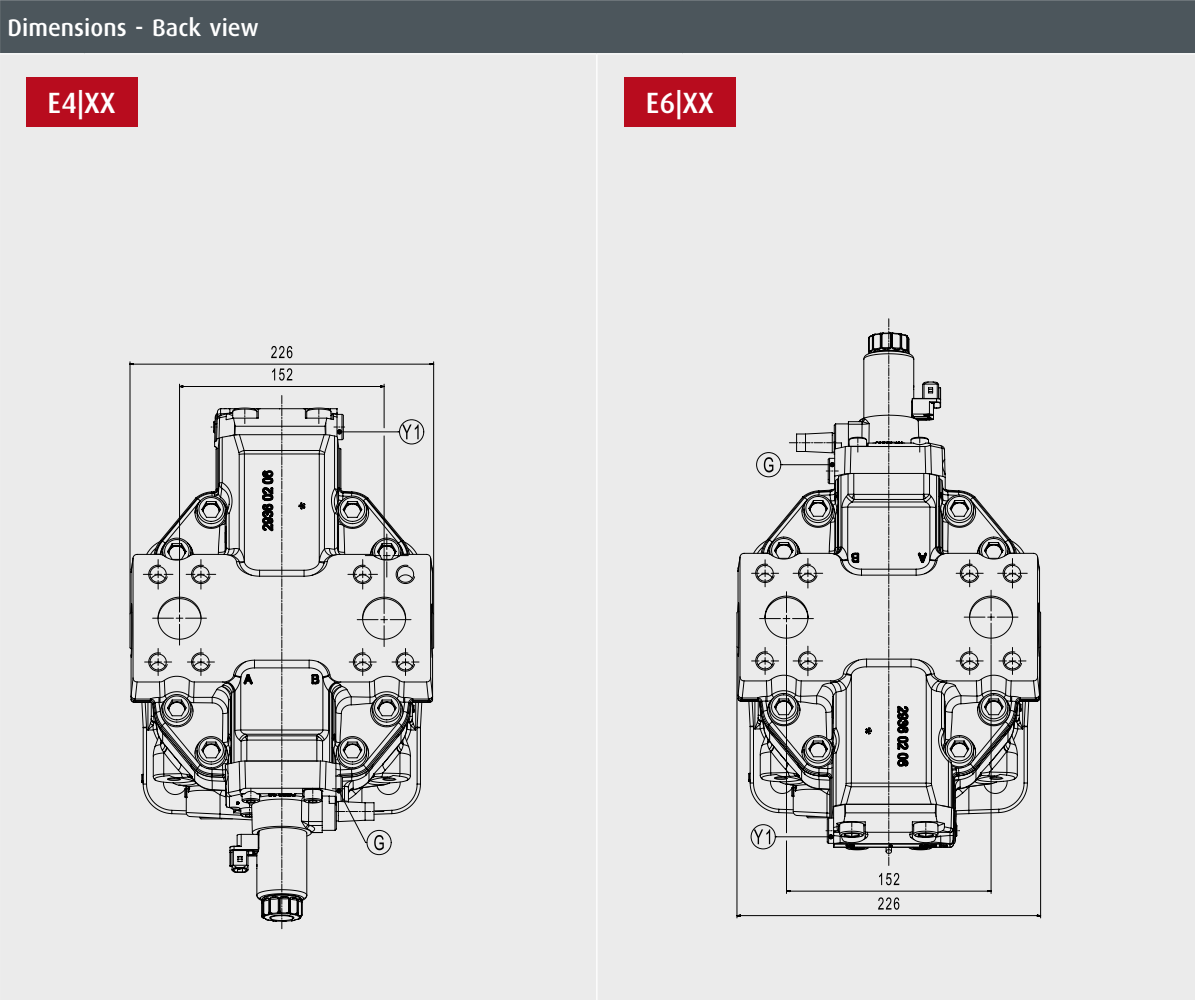
CMV 60-215



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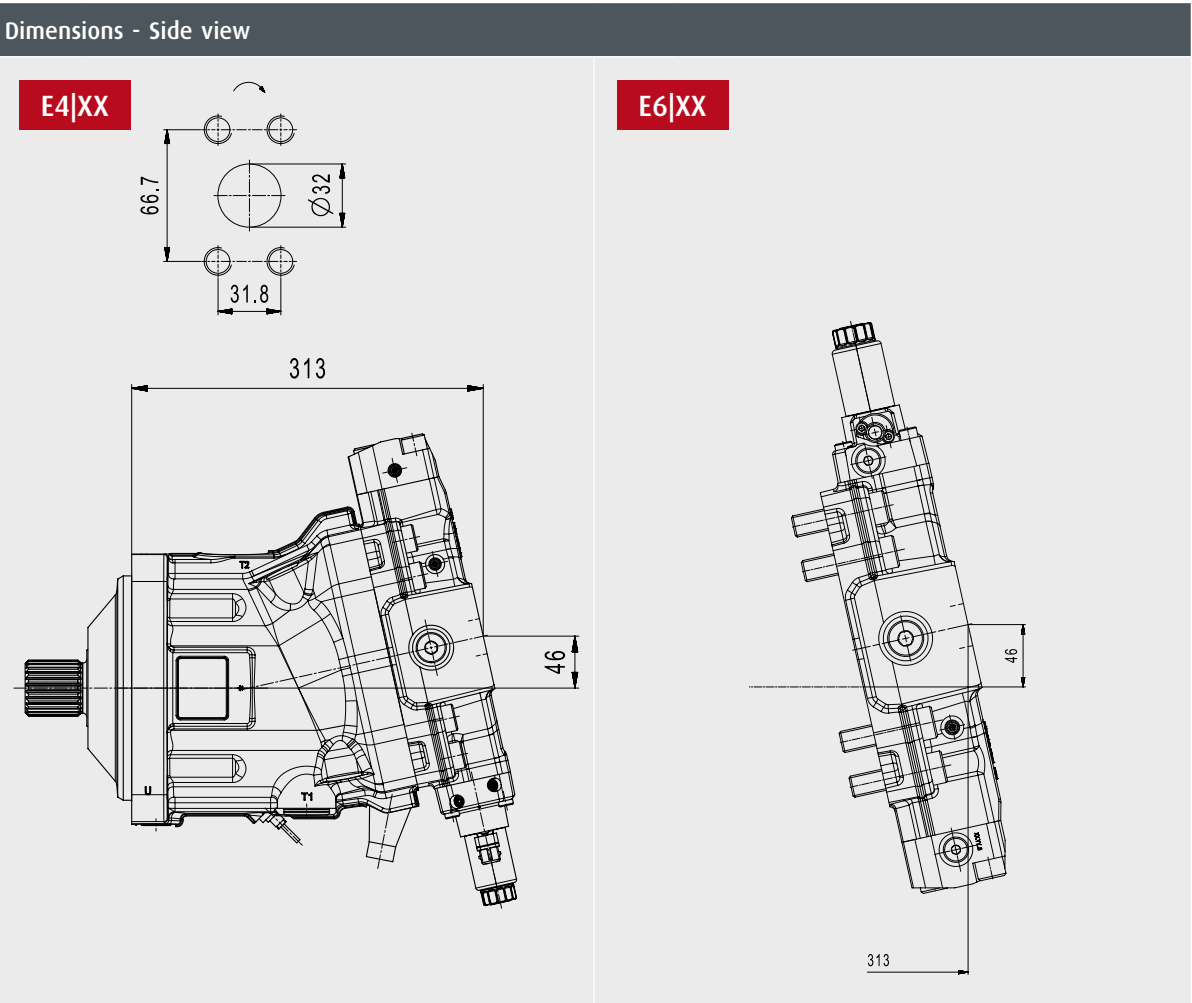


E4 XX	Configuration with negative control (E4 displacement control). The other options shown do not determine the position of the w. ports and are chosen as an example.	A	High pressure work port, ISO 6162-2, SAE 1 1/4" If pressurised - motor runs clockwise Nom. pres.: 450 bar, max. press.: 500 bar
E6 XX	Configuration with positive control (E6 displacement control). The other options shown do not determine the position of the w. ports and are chosen as an example.	B	High pressure work port, ISO 6162-2, SAE 1 1/4" If pressurised - motor runs counter-clockwise Nom. pres.: 450 bar, max. press.: 500 bar

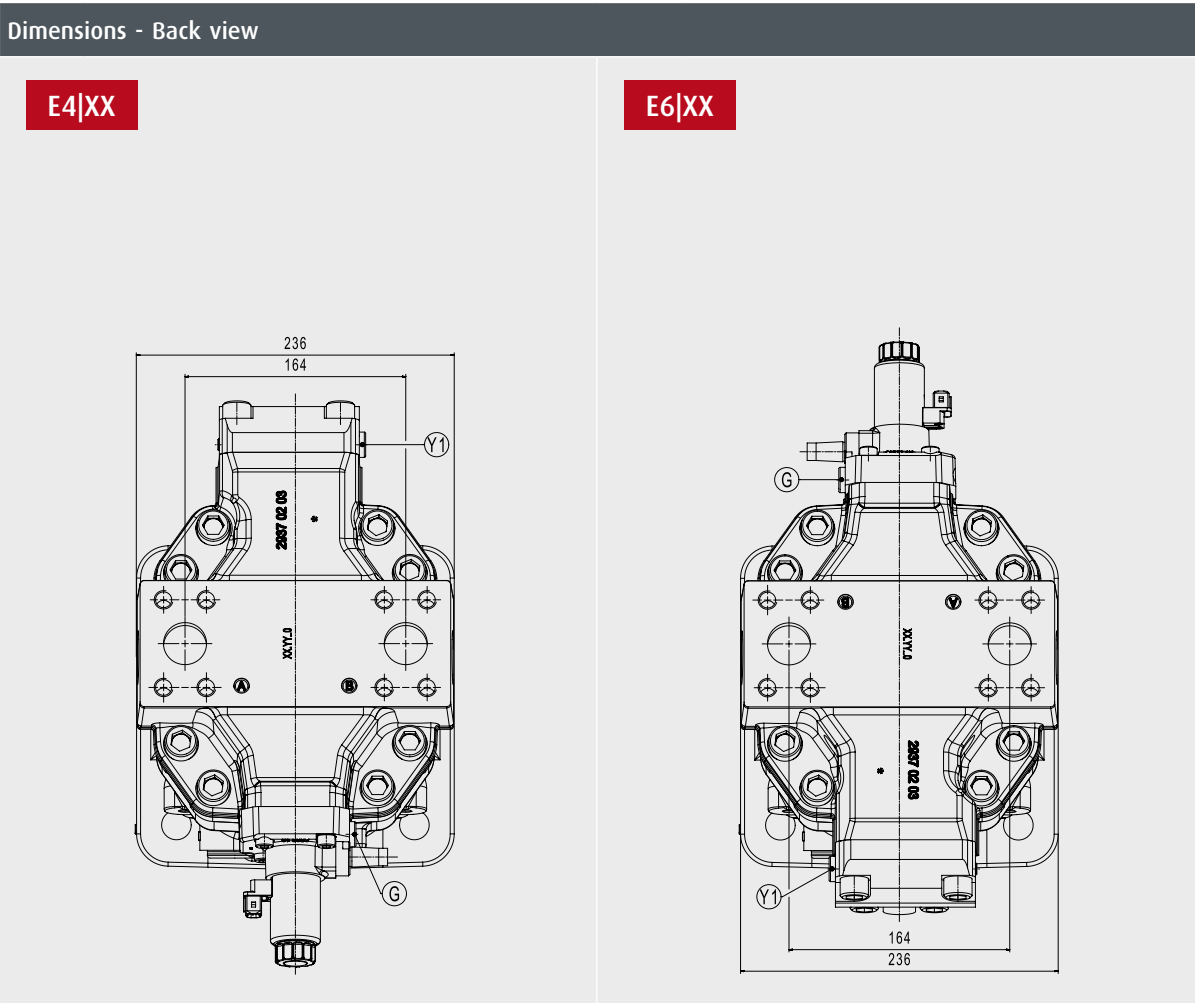


AX	Pressure equalization port, ISO 6149, M14x1.5, 11.5 mm deep	G	Ext. control pressure supply, ISO 6149, M14x1.5, 11.5 mm deep
BX		U	Bearing flush port, ISO 6149, M22x1.5, 15.5 mm deep
T1	Drain / vent port, ISO 6149, M27x2, 19 mm deep	Y1	Measuring port, ISO 6149, M14x1.5, 11.5 mm deep
T2	Drain / vent port, ISO 6149, M33x2, 19 mm deep		

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AX	Pressure equalization port, ISO 6149, M22x1.5, 15.5 mm deep	G	Ext. control pressure supply, ISO 6149, M14x1.5, 11.5 mm deep
BX		U	Bearing flush port, ISO 6149, M22x1.5, 15.5 mm deep
T1	Drain / vent port, ISO 6149, M33x2, 19 mm deep	Y1	Measuring port, ISO 6149, M14x1.5, 11.5 mm deep
T2	Drain / vent port, ISO 6149, M42x2, 19.5 mm deep		

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CMV 60-215

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CMV 60-215

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CMV 60-215

In combination with
ISO 3019-2 metric

CMV 60-215

In combination with
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ISO 3019-2 metric

CMV 60-215

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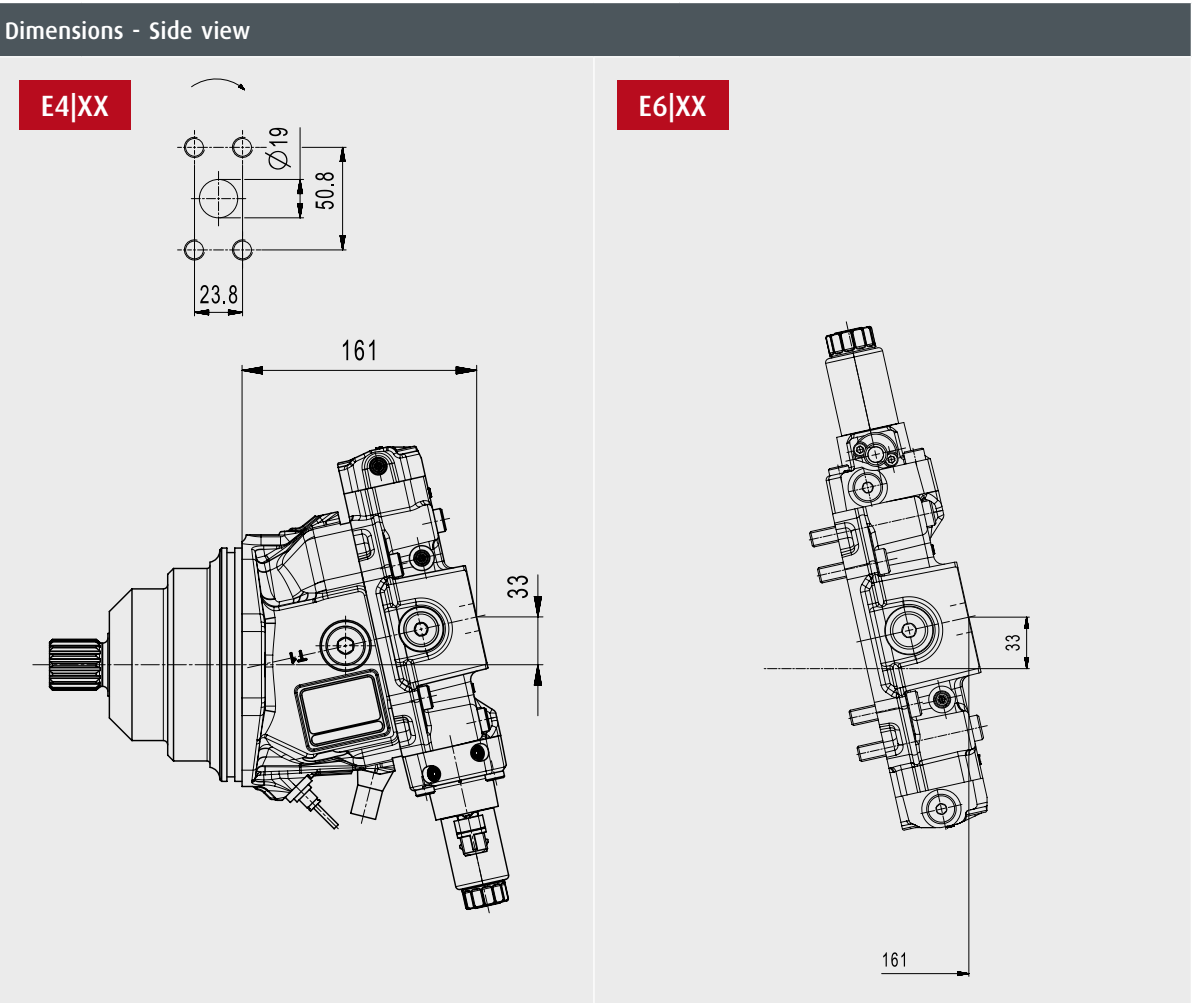
CMV 60-215

In combination with
PLUG-IN, SIM. TO ISO 3019-2

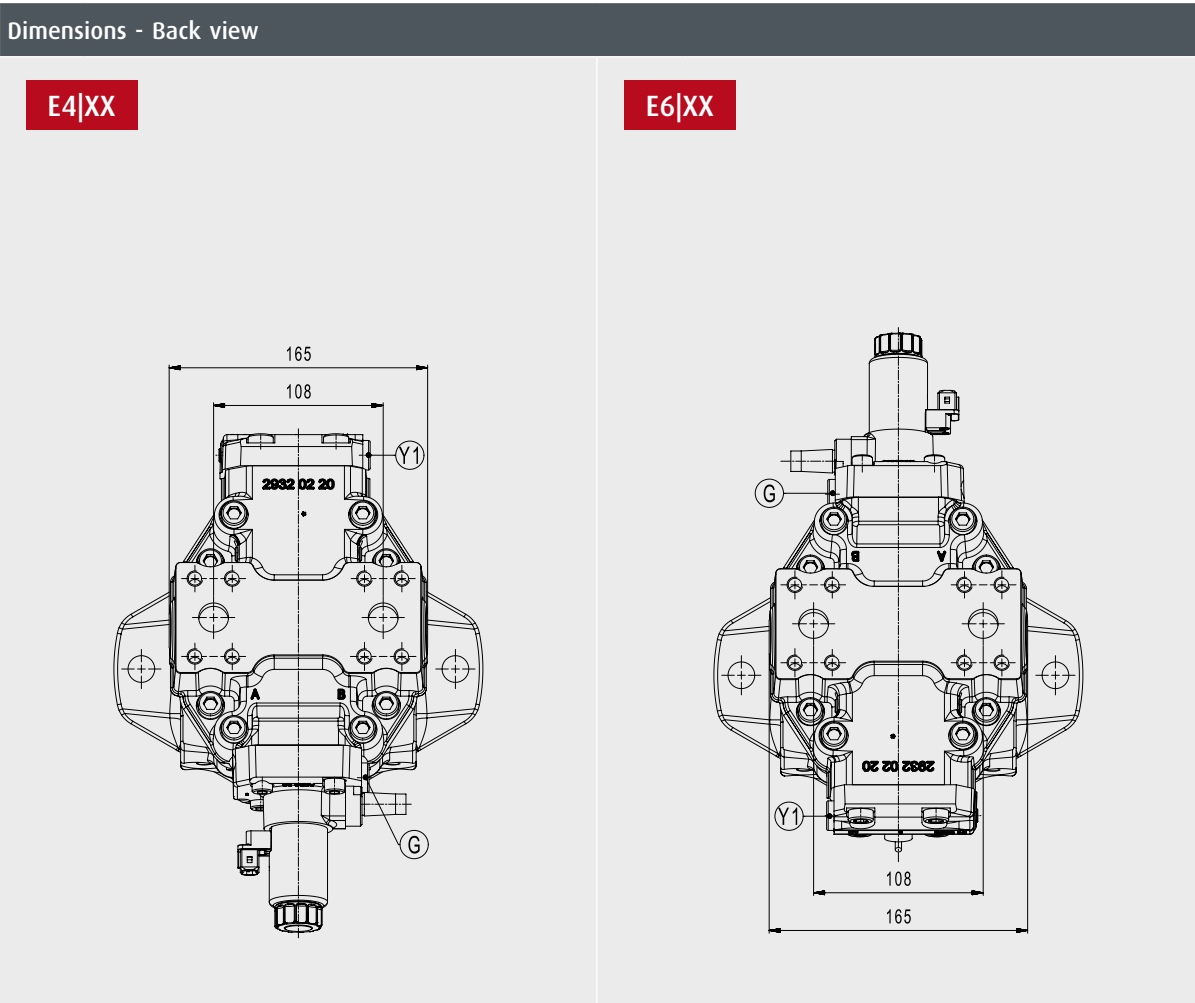
CMV 60-215



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E4 XX	Configuration with negative control (E4 displacement control). The other options shown do not determine the position of the w. ports and are chosen as an example.	A	High pressure work port, ISO 6162-2, If pressurised - motor runs clockwise Nom. pres.: 450 bar, max. press.: 500 bar
E6 XX	Configuration with positive control (E6 displacement control). The other options shown do not determine the position of the w. ports and are chosen as an example.	B	High pressure work port, ISO 6162-2, If pressurised - motor runs counter-clockwise Nom. pres.: 450 bar, max. press.: 500 bar



AX	Pressure equalization port	G	Ext. control pressure supply, ISO 6149
BX		U	Bearing flush port, ISO 6149
T1	Drain / vent port, ISO 6149	Y1	Measuring port, ISO 6149
T2	Drain / vent port, ISO 6149		

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CMV 60-215

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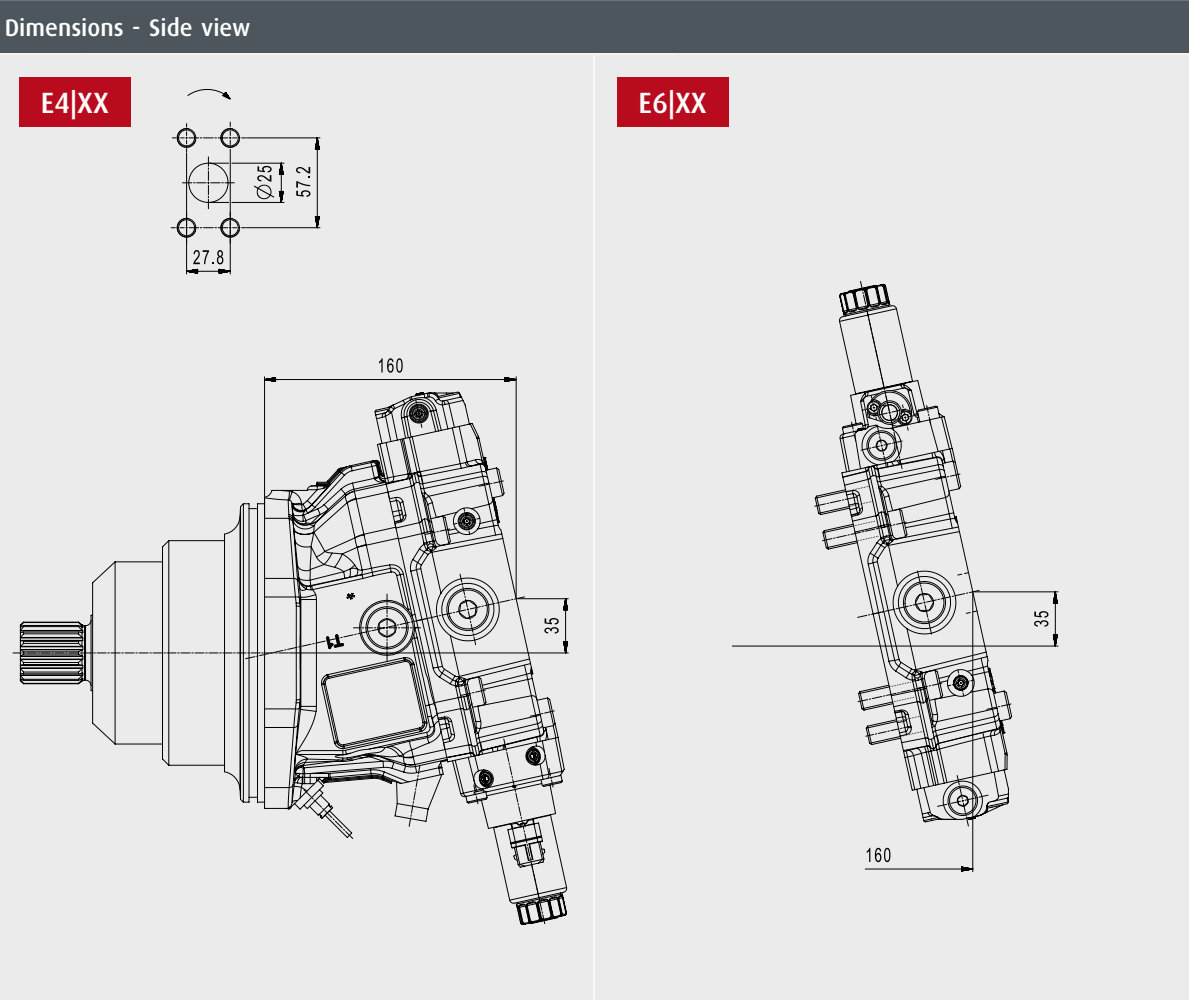
CMV 60-215

In combination with
PLUG-IN, SIM. TO ISO 3019-2

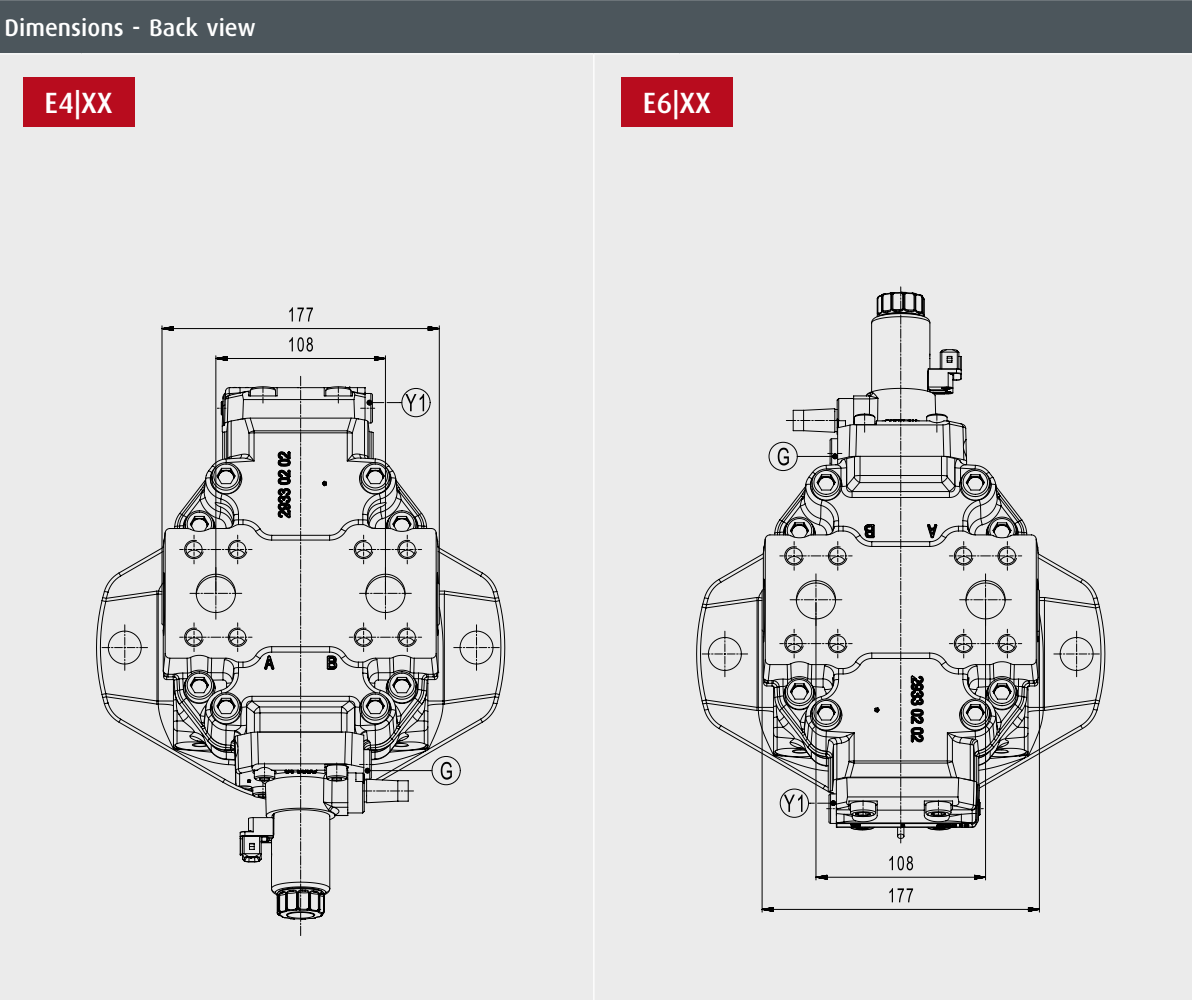
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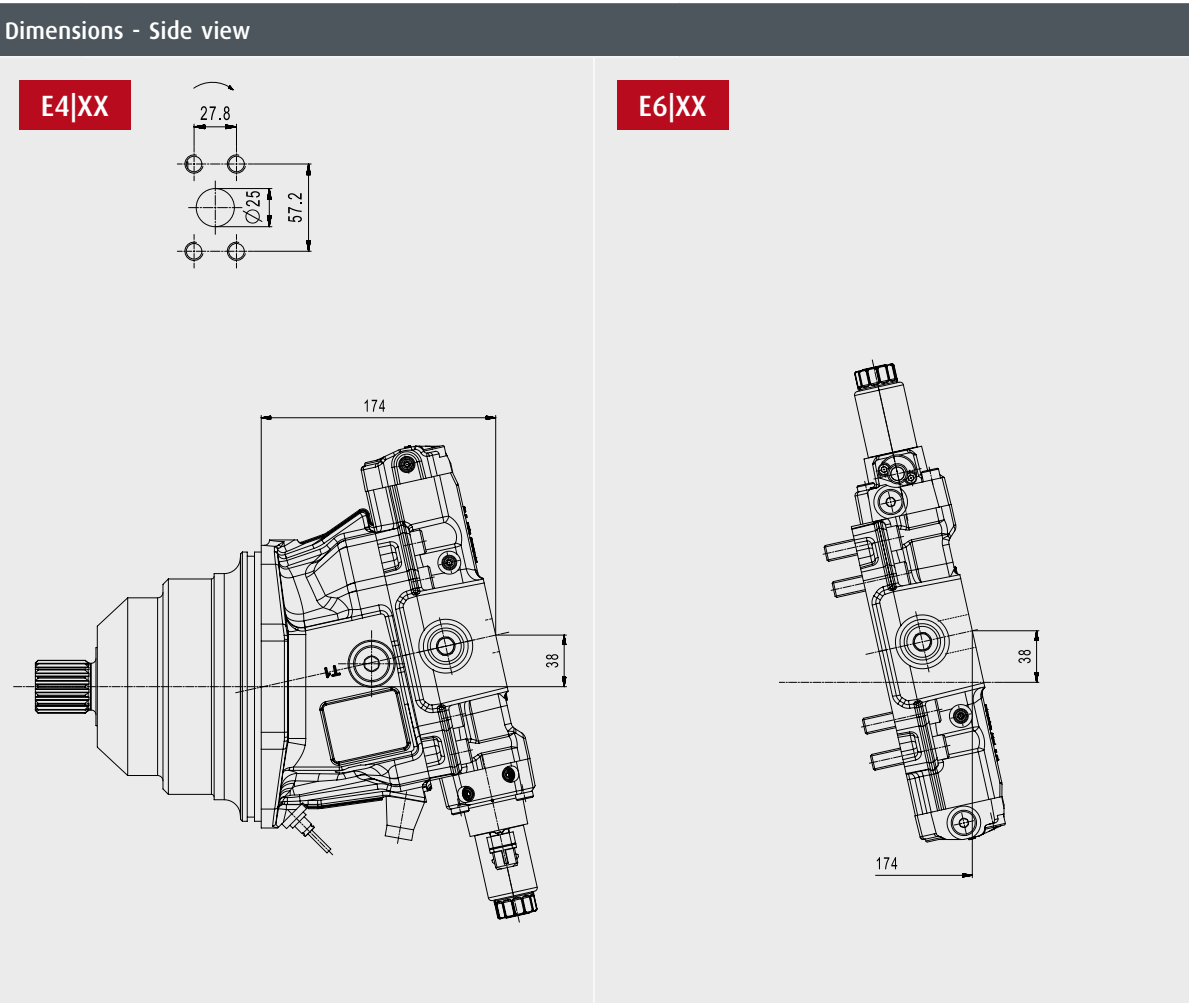
E4 XX	Configuration with negative control (E4 displacement control). The other options shown do not determine the position of the w. ports and are chosen as an example.	A	High pressure work port, ISO 6162-2, SAE 1" If pressurised - motor runs clockwise Nom. pres.: 450 bar, max. press.: 500 bar
E6 XX	Configuration with positive control (E6 displacement control). The other options shown do not determine the position of the w. ports and are chosen as an example.	B	High pressure work port, ISO 6162-2, SAE 1" If pressurised - motor runs counter-clockwise Nom. pres.: 450 bar, max. press.: 500 bar



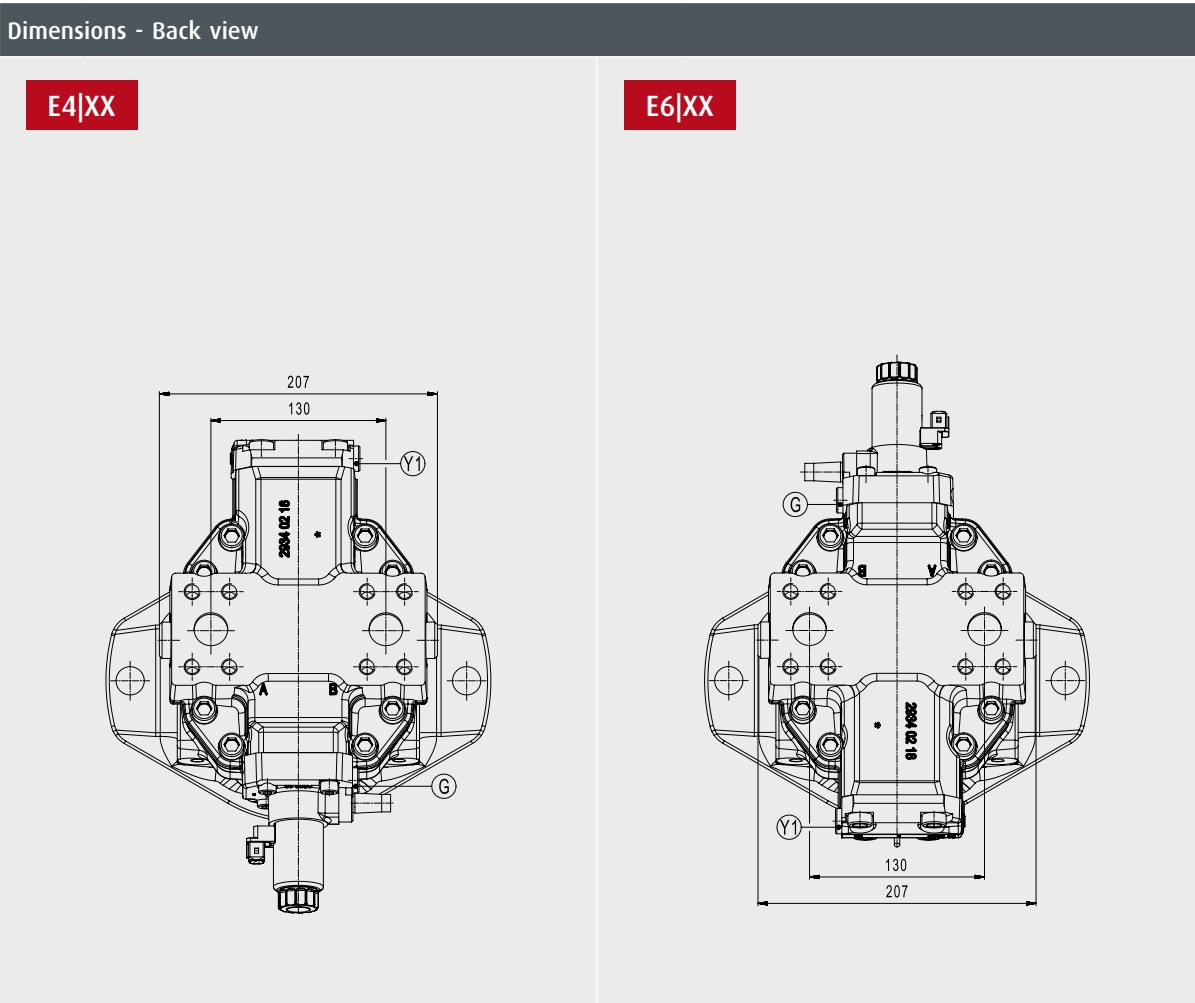
AX	Pressure equalization port	G	Ext. control pressure supply, ISO 6149, M14x1.5, 11.5 mm deep
BX		U	Bearing flush port, ISO 6149, M18x1.5, 14.5 mm deep
T1	Drain / vent port, ISO 6149, M22x1.5, 15.5 mm deep	Y1	Measuring port, ISO 6149, M14x1.5, 11.5 mm deep
T2	Drain / vent port, ISO 6149, M27x2, 19 mm deep		

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In the following you will find the technical specifications of the work ports. They are clustered according to the related mounting flange and nominal size. In the section [Model Code & Availability], you can then check the availability of the work ports in combination with additional functions integrated in the port plate housing. So please have a look at model-code [item 10. Port Plate housing] and compile your desired configuration.



E4 XX	Configuration with negative control (E4 displacement control). The other options shown do not determine the position of the w. ports and are chosen as an example.	A	High pressure work port, ISO 6162-2, SAE 1" If pressurised - motor runs clockwise Nom. pres.: 450 bar, max. press.: 500 bar
E6 XX	Configuration with positive control (E6 displacement control). The other options shown do not determine the position of the w. ports and are chosen as an example.	B	High pressure work port, ISO 6162-2, SAE 1" If pressurised - motor runs counter-clockwise Nom. pres.: 450 bar, max. press.: 500 bar



AX	Pressure equalization port	G	Ext. control pressure supply, ISO 6149, M14x1.5, 11.5 mm deep
BX		U	Bearing flush port, ISO 6149, M18x1.5, 14.5 mm deep
T1	Drain / vent port, ISO 6149, M27x2, 19 mm deep	Y1	Measuring port, ISO 6149, M14x1.5, 11.5 mm deep
T2	Drain / vent port, ISO 6149, M33x2, 19 mm deep		

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CMV 60-215

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ISO 6162-2

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ISO 3019-1 / SAE J744

CMV 60-215

In combination with
ISO 3019-2 metric

CMV 60-215

In combination with
PLUG-IN, SIM. TO ISO 3019-2

CMV 60-215

RADIAL TWIN PORTS
ISO 6162-2

In combination with
ISO 3019-1 / SAE J744


CMV 60-215

In combination with
ISO 3019-2 metric

CMV 60-215

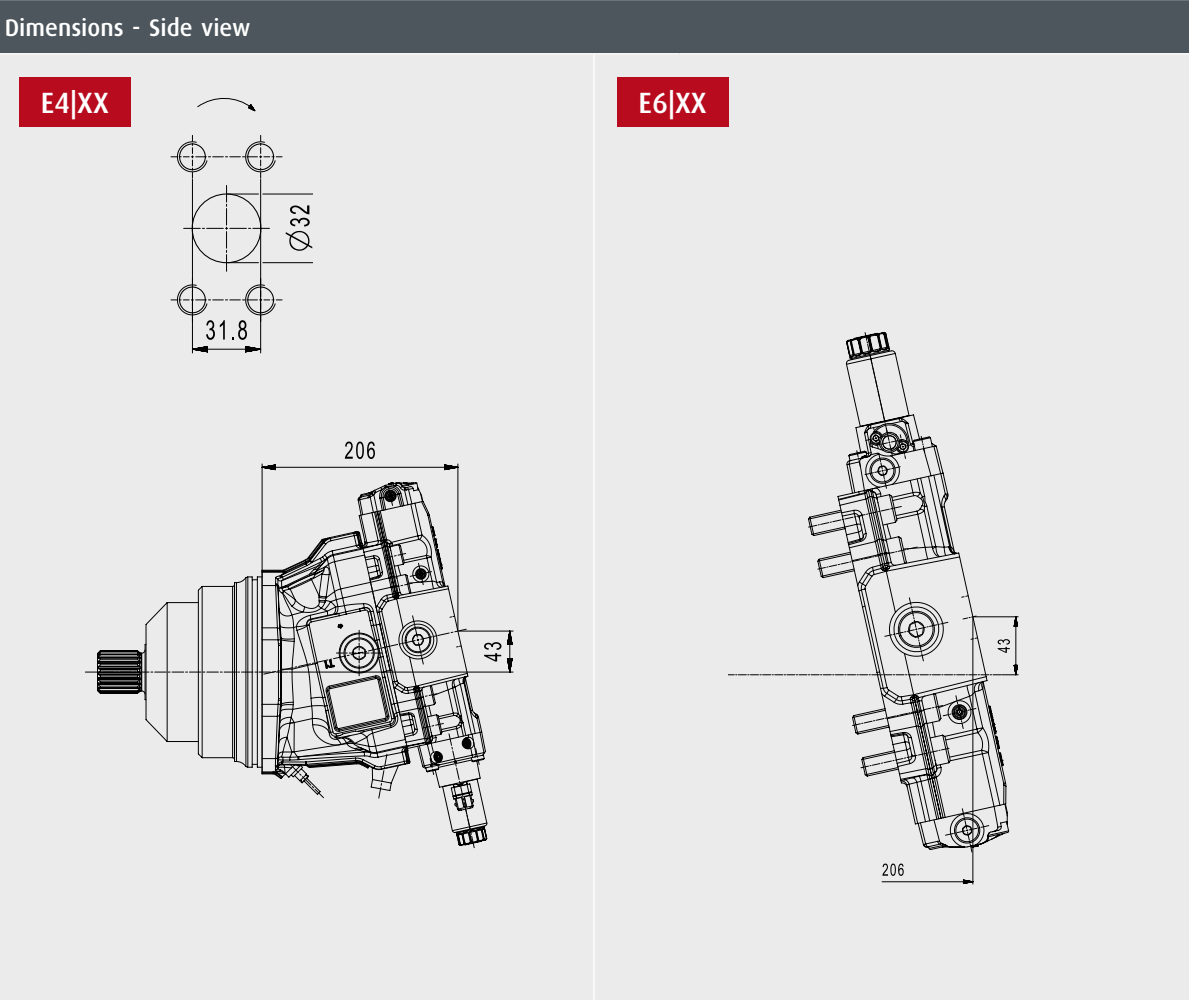
In combination with
PLUG-IN, SIM. TO ISO 3019-2

CMV 60-215

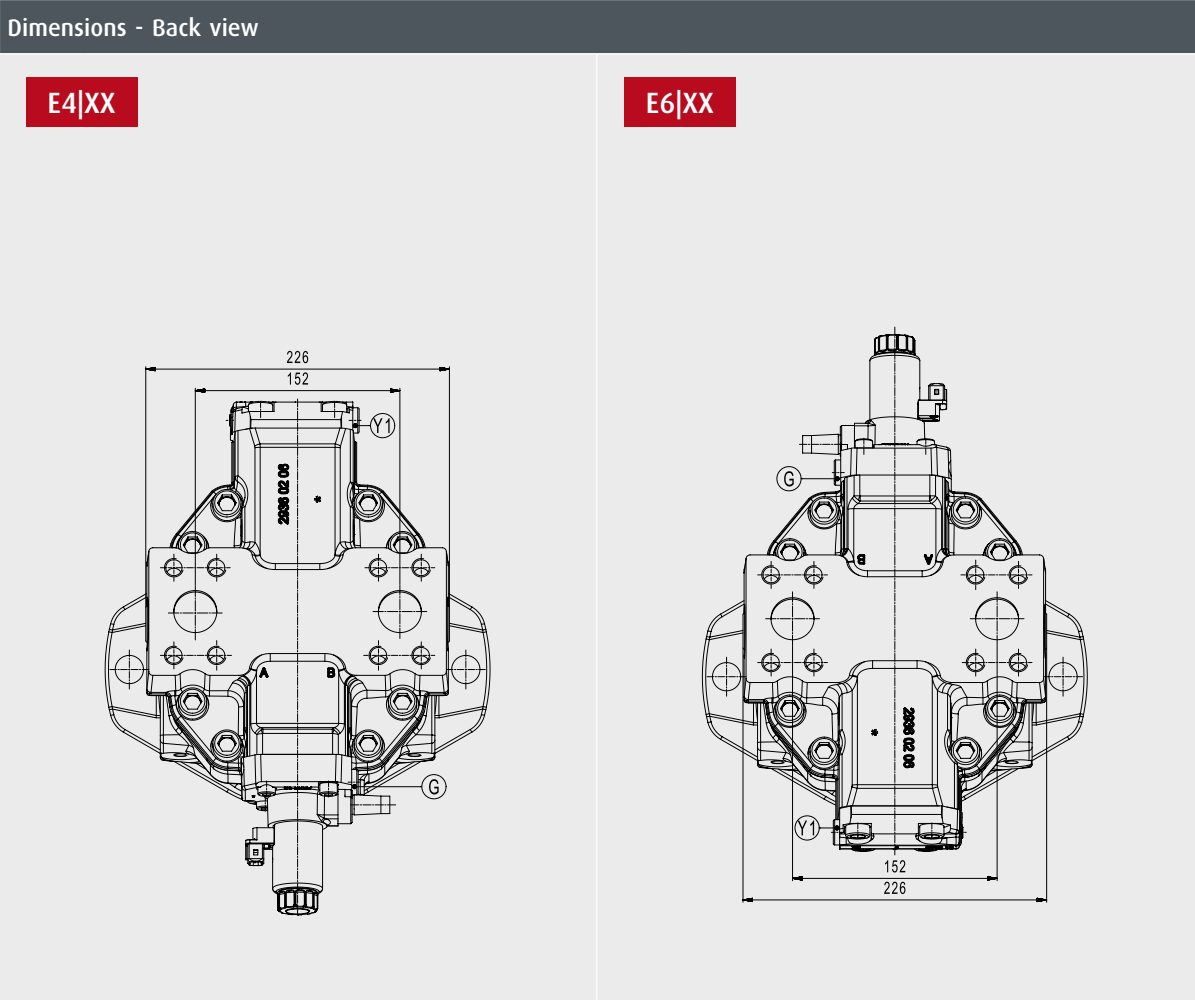


Technical Specification | Work Ports | Axial Twin Ports | Plug-In | CMV 140

In the following you will find the technical specifications of the work ports. They are clustered according to the related mounting flange and nominal size. In the section [Model Code & Availability], you can then check the availability of the work ports in combination with additional functions integrated in the port plate housing. So please have a look at model-code [item 10. Port Plate housing] and compile your desired configuration.



E4 XX	Configuration with negative control (E4 displacement control). The other options shown do not determine the position of the w. ports and are chosen as an example.	A	High pressure work port, ISO 6162-2, SAE 1 1/4" If pressurised - motor runs clockwise Nom. pres.: 450 bar, max. press.: 500 bar
E6 XX	Configuration with positive control (E6 displacement control). The other options shown do not determine the position of the w. ports and are chosen as an example.	B	High pressure work port, ISO 6162-2, SAE 1 1/4" If pressurised - motor runs counter-clockwise Nom. pres.: 450 bar, max. press.: 500 bar



AX	Pressure equalization port	G	Ext. control pressure supply, ISO 6149, M14x1.5, 11.5 mm deep
BX	Pressure equalization port	U	Bearing flush port, ISO 6149, M22x1.5, 15.5 mm deep
T1	Drain / vent port, ISO 6149, M27x2, 19 mm deep	Y1	Measuring port, ISO 6149, M14x1.5, 11.5 mm deep
T2	Drain / vent port, ISO 6149, M33x2, 19 mm deep		

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CMV 60-215

In combination with
ISO 3019-2 metric

CMV 60-215

In combination with
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CMV 60-215

SIDE PORTS
ISO 6162-2

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ISO 3019-1 / SAE J744

CMV 60-215

In combination with
ISO 3019-2 metric

CMV 60-215

In combination with
PLUG-IN, SIM. TO ISO 3019-2

CMV 60-215

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In combination with
ISO 3019-2 metric

CMV 60-215

In combination with
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CMV 60-215

SIDE PORTS
ISO 6162-2

In combination with
ISO 3019-1 / SAE J744

CMV 60-215

In combination with
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CMV 60-215

In combination with
PLUG-IN, SIM. TO ISO 3019-2

CMV 60-215

RADIAL TWIN PORTS
ISO 6162-2

In combination with
ISO 3019-1 / SAE J744

CMV 60-215

In combination with
ISO 3019-2 metric

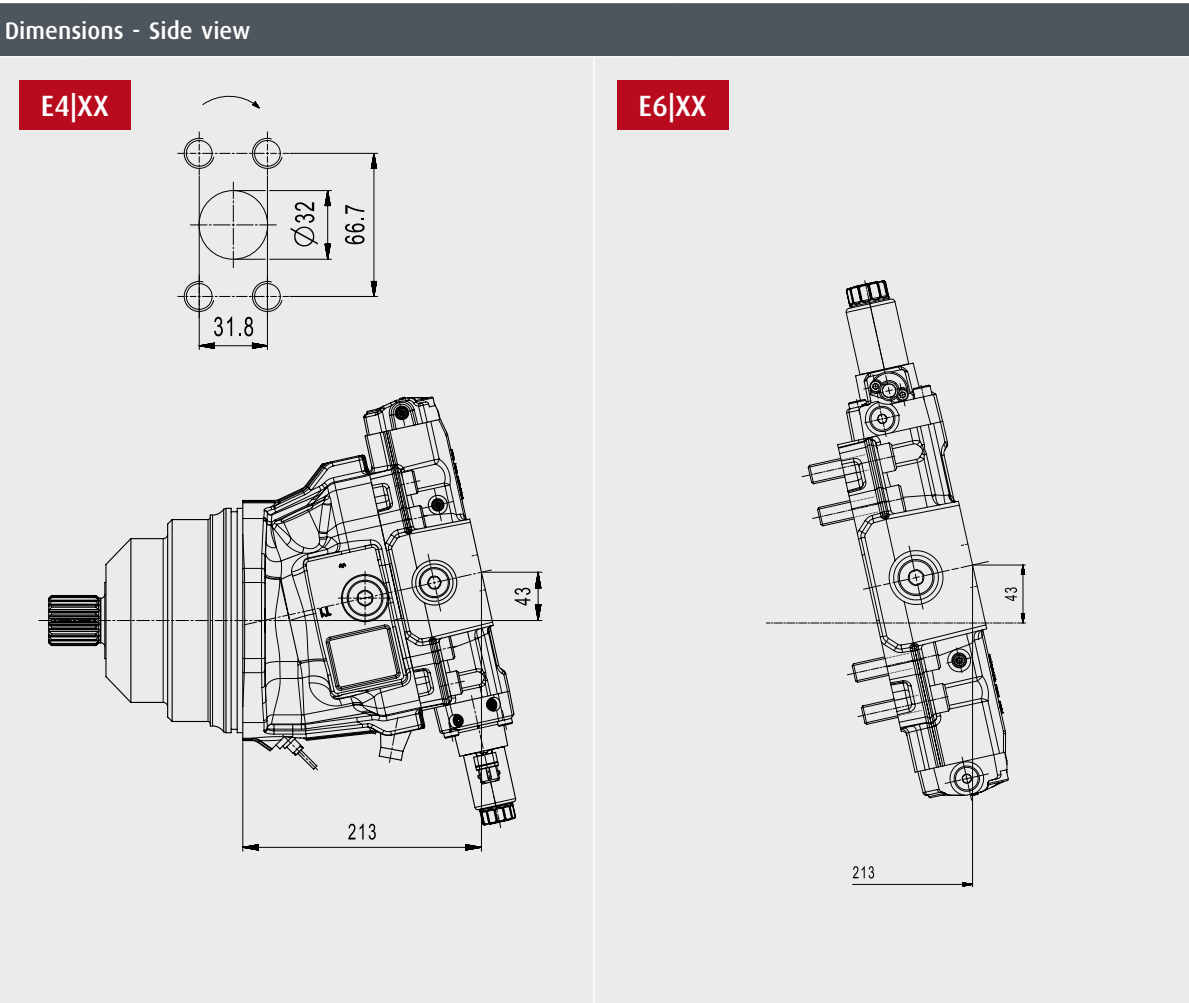
CMV 60-215

In combination with
PLUG-IN, SIM. TO ISO 3019-2

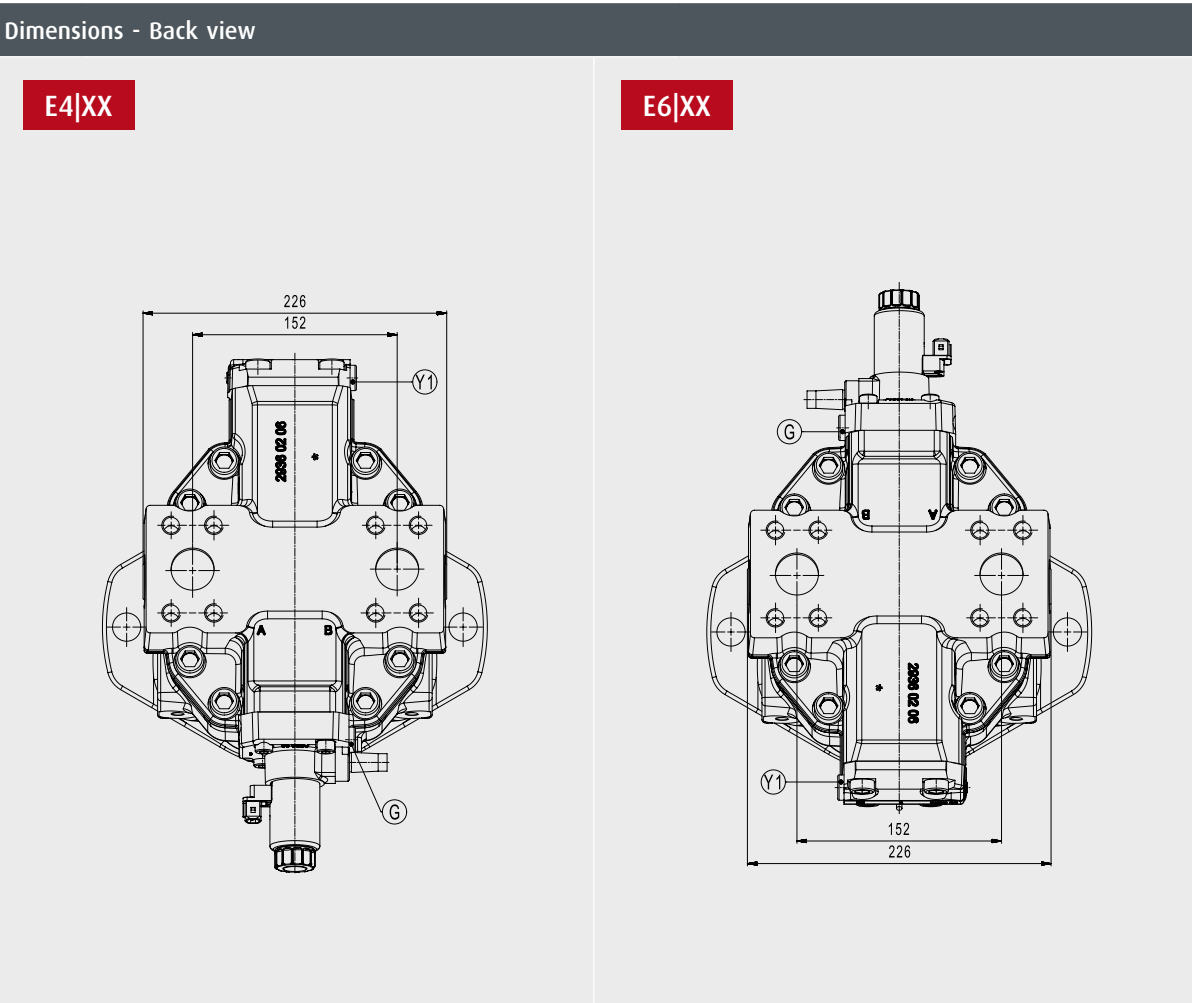
CMV 60-215



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E4 XX	Configuration with negative control (E4 displacement control). The other options shown do not determine the position of the w. ports and are chosen as an example.	A	High pressure work port, ISO 6162-2, SAE 1 1/4" If pressurised - motor runs clockwise Nom. pres.: 450 bar, max. press.: 500 bar
E6 XX	Configuration with positive control (E6 displacement control). The other options shown do not determine the position of the w. ports and are chosen as an example.	B	High pressure work port, ISO 6162-2, SAE 1 1/4" If pressurised - motor runs counter-clockwise Nom. pres.: 450 bar, max. press.: 500 bar



AX	Pressure equalization port, ISO 6149, M14x1.5, 11.5 mm deep	G	Ext. control pressure supply, ISO 6149, M14x1.5, 11.5 mm deep
BX		U	Bearing flush port, ISO 6149, M22x1.5, 15.5 mm deep
T1	Drain / vent port, ISO 6149, M27x2, 19 mm deep	Y1	Measuring port, ISO 6149, M14x1.5, 11.5 mm deep
T2	Drain / vent port, ISO 6149, M33x2, 19 mm deep		

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CMV 60-215

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RADIAL TWIN PORTS
ISO 6162-2

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CMV 60-215

In combination with
ISO 3019-2 metric

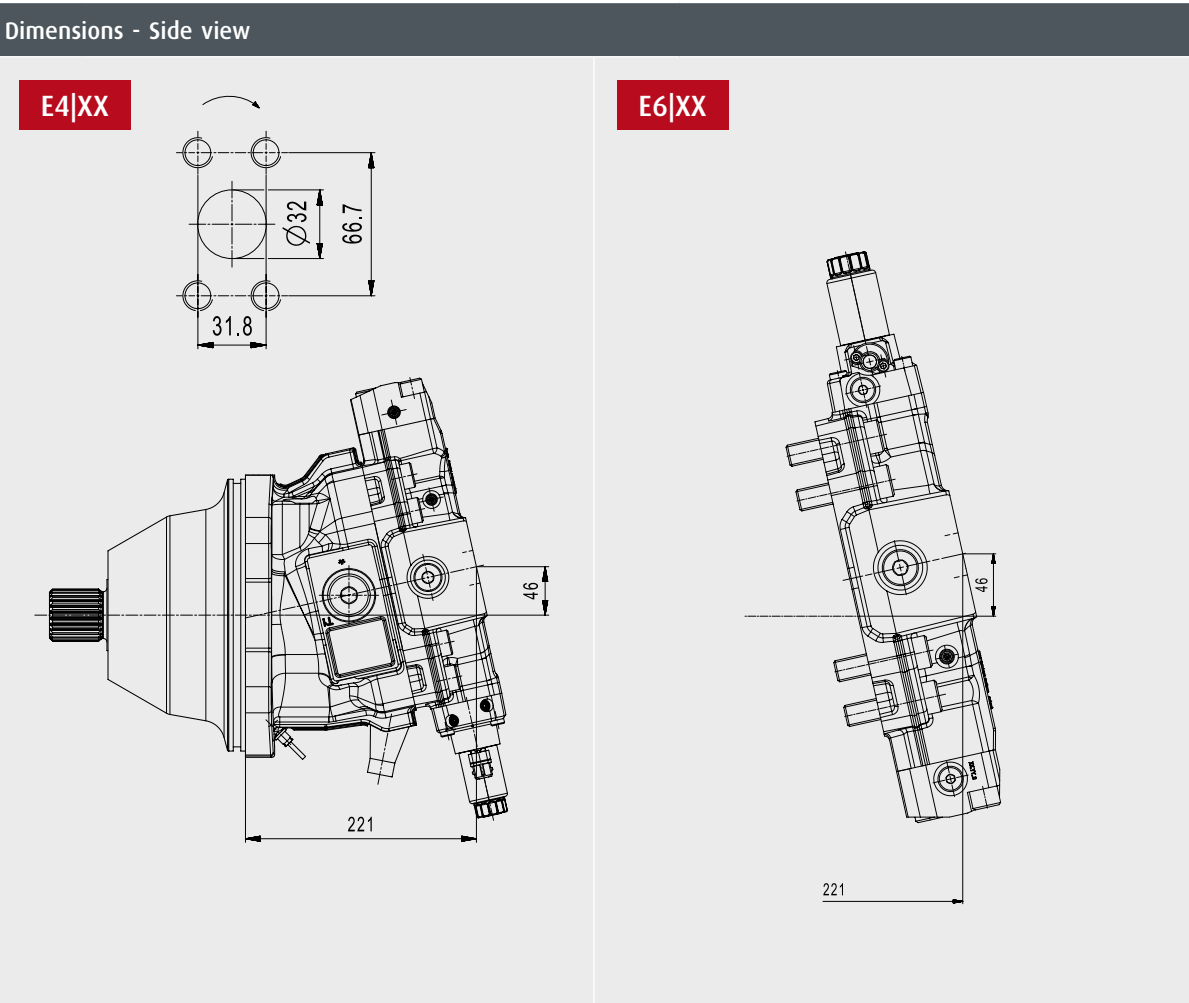
CMV 60-215

In combination with
PLUG-IN, SIM. TO ISO 3019-2

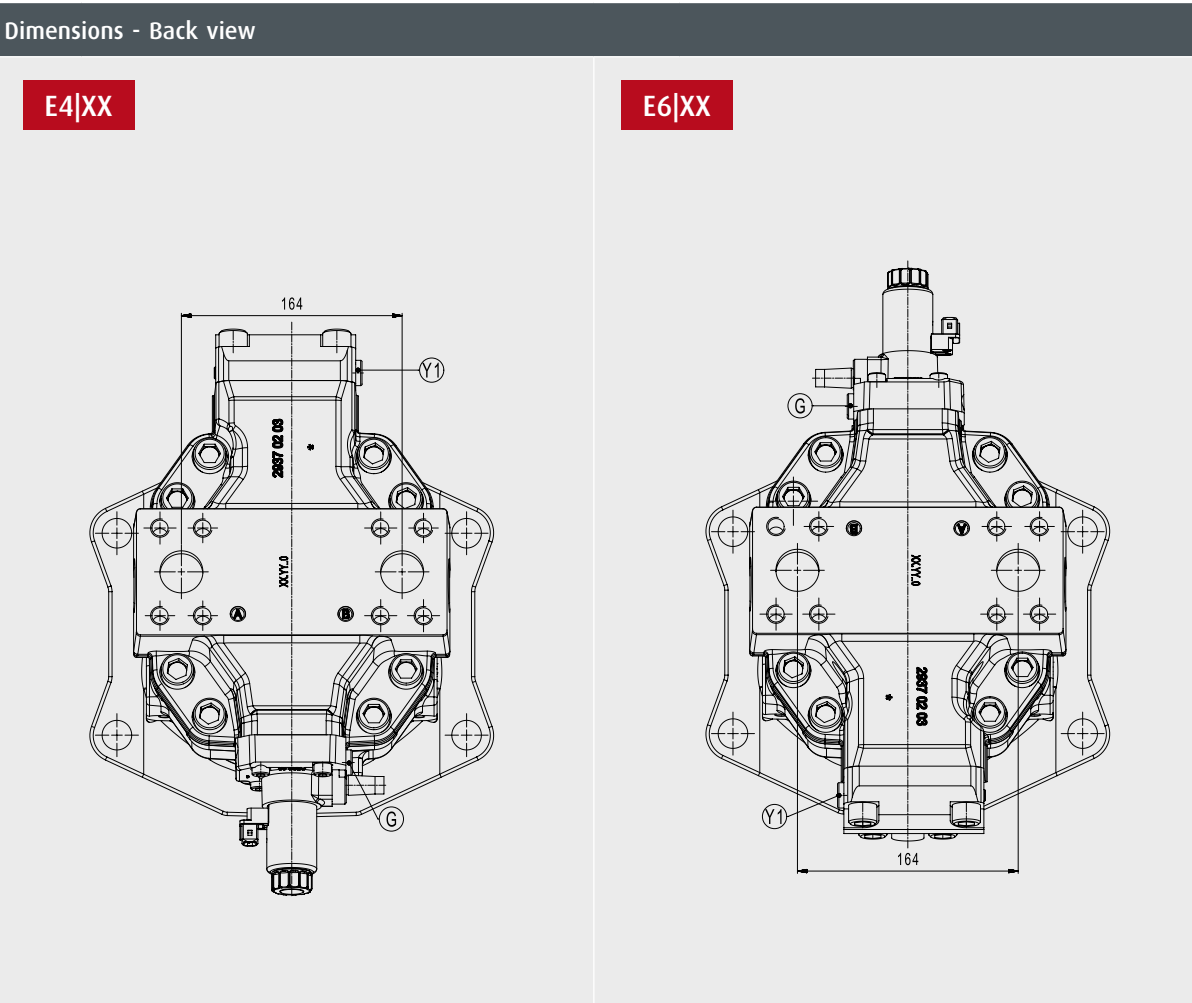
CMV 60-215



In the following you will find the technical specifications of the work ports. They are clustered according to the related mounting flange and nominal size. In the section [Model Code & Availability], you can then check the availability of the work ports in combination with additional functions integrated in the port plate housing. So please have a look at model-code [item 10. Port Plate housing] and compile your desired configuration.



E4 XX	Configuration with negative control (E4 displacement control). The other options shown do not determine the position of the w. ports and are chosen as an example.	A	High pressure work port, ISO 6162-2, SAE 1 1/4" If pressurised - motor runs clockwise Nom. pres.: 450 bar, max. press.: 500 bar
E6 XX	Configuration with positive control (E6 displacement control). The other options shown do not determine the position of the w. ports and are chosen as an example.	B	High pressure work port, ISO 6162-2, SAE 1 1/4" If pressurised - motor runs counter-clockwise Nom. pres.: 450 bar, max. press.: 500 bar



AX	Pressure equalization port, ISO 6149, M22x1.5, 15.5 mm deep	G	Ext. control pressure supply, ISO 6149, M14x1.5, 11.5 mm deep
BX	Pressure equalization port, ISO 6149, M22x1.5, 15.5 mm deep	U	Bearing flush port, ISO 6149, M22x1.5, 15.5 mm deep
T1	Drain / vent port, ISO 6149, M33x2, 19 mm deep	Y1	Measuring port, ISO 6149, M14x1.5, 11.5 mm deep
T2	Drain / vent port, ISO 6149, M42x2, 19.5 mm deep		

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In the following you will find the technical specifications of the work ports. They are clustered according to the related mounting flange and nominal size. In the section [Model Code & Availability], you can then check the availability of the work ports in combination with additional functions integrated in the port plate housing. So please have a look at model-code [item 10. Port Plate housing] and compile your desired configuration.

Dimensions - Side view	
Dimensions upon request	Dimensions upon request



Dimensions - Back view	
Dimensions upon request	Dimensions upon request

In the following you will find the technical specifications of the work ports. They are clustered according to the related mounting flange and nominal size. In the section [Model Code & Availability], you can then check the availability of the work ports in combination with additional functions integrated in the port plate housing. So please have a look at model-code [item 10. Port Plate housing] and compile your desired configuration.

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**In combination with
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In combination with
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**In combination with
PLUG-IN, SIM. TO ISO 3019-2**

RADIAL TWIN PORTS
ISO 6162-2

**In combination with
ISO 3019-1 / SAE J744**

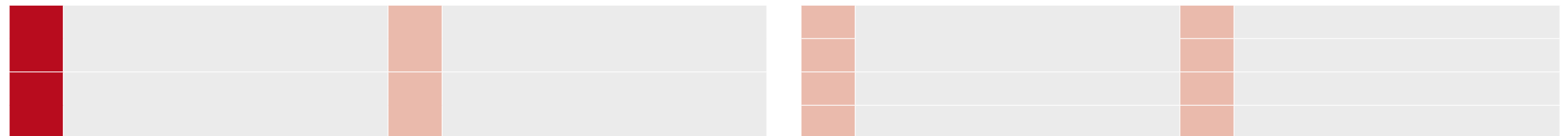
In combination with
ISO 3019-2 metric

In combination with
PLUG-IN, SIM. TO ISO 3019-2

Dimensions - Back view

Dimensions
upon request

Dimensions
upon request



In the following you will find the technical specifications of the work ports. They are clustered according to the related mounting flange and nominal size. In the section [Model Code & Availability], you can then check the availability of the work ports in combination with additional functions integrated in the port plate housing. So please have a look at model-code [item 10. Port Plate housing] and compile your desired configuration.

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**In combination with
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PLUG-IN, SIM. TO ISO 3019-2

CMV 60-215

**In combination with
ISO 3019-1 / SAE J744**

CMV 60-215

In combination with
ISO 3019-2 metric

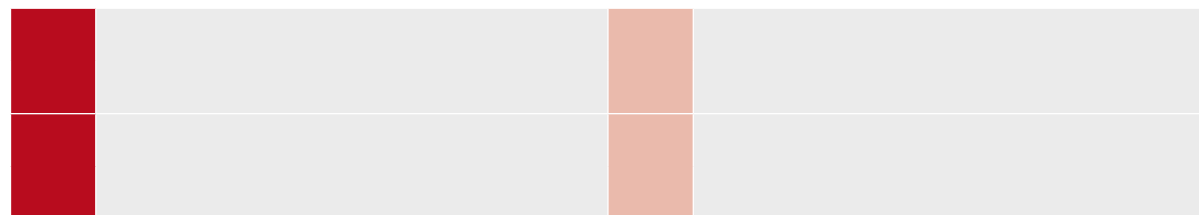
CMV 60-215

In combination with
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Dimensions
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Dimensions
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In the following you will find the technical specifications of the work ports. They are clustered according to the related mounting flange and nominal size. In the section [Model Code & Availability], you can then check the availability of the work ports in combination with additional functions integrated in the port plate housing. So please have a look at model-code [item 10. Port Plate housing] and compile your desired configuration.

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CMV 60-215

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In the following you will find the technical specifications of the work ports. They are clustered according to the related mounting flange and nominal size. In the section [Model Code & Availability], you can then check the availability of the work ports in combination with additional functions integrated in the port plate housing. So please have a look at model-code [item 10. Port Plate housing] and compile your desired configuration.

Dimensions - Side view	
Dimensions upon request	Dimensions upon request

Dimensions - Back view	
Dimensions upon request	Dimensions upon request

In the following you will find the technical specifications of the work ports. They are clustered according to the related mounting flange and nominal size. In the section [Model Code & Availability], you can then check the availability of the work ports in combination with additional functions integrated in the port plate housing. So please have a look at model-code [item 10. Port Plate housing] and compile your desired configuration.

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CMV 60-215

**In combination with
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CMV 60-215

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CMV 60-215

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RADIAL TWIN PORTS
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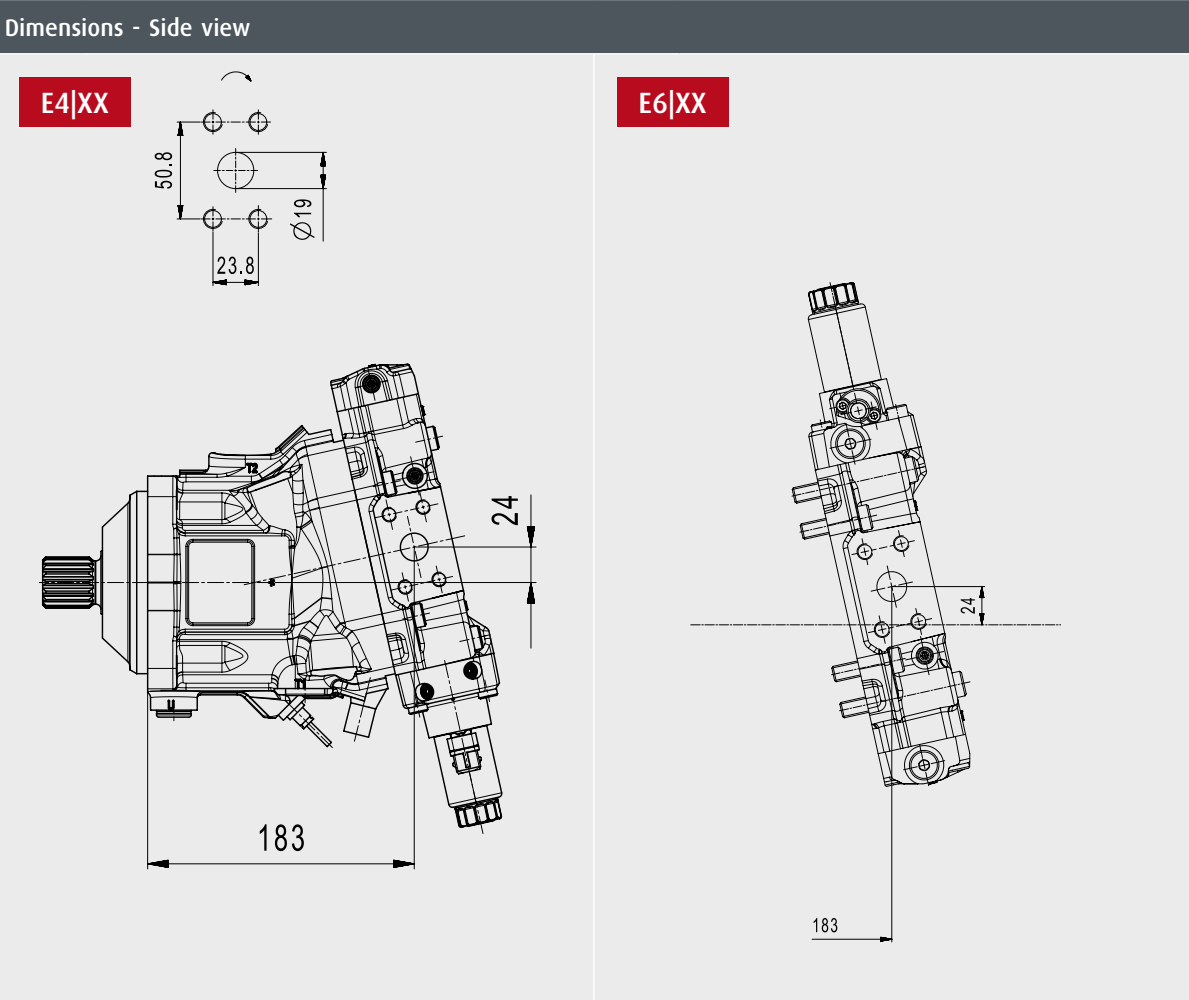
CMV 60-215

In combination with
PLUG-IN, SIM. TO ISO 3019-2

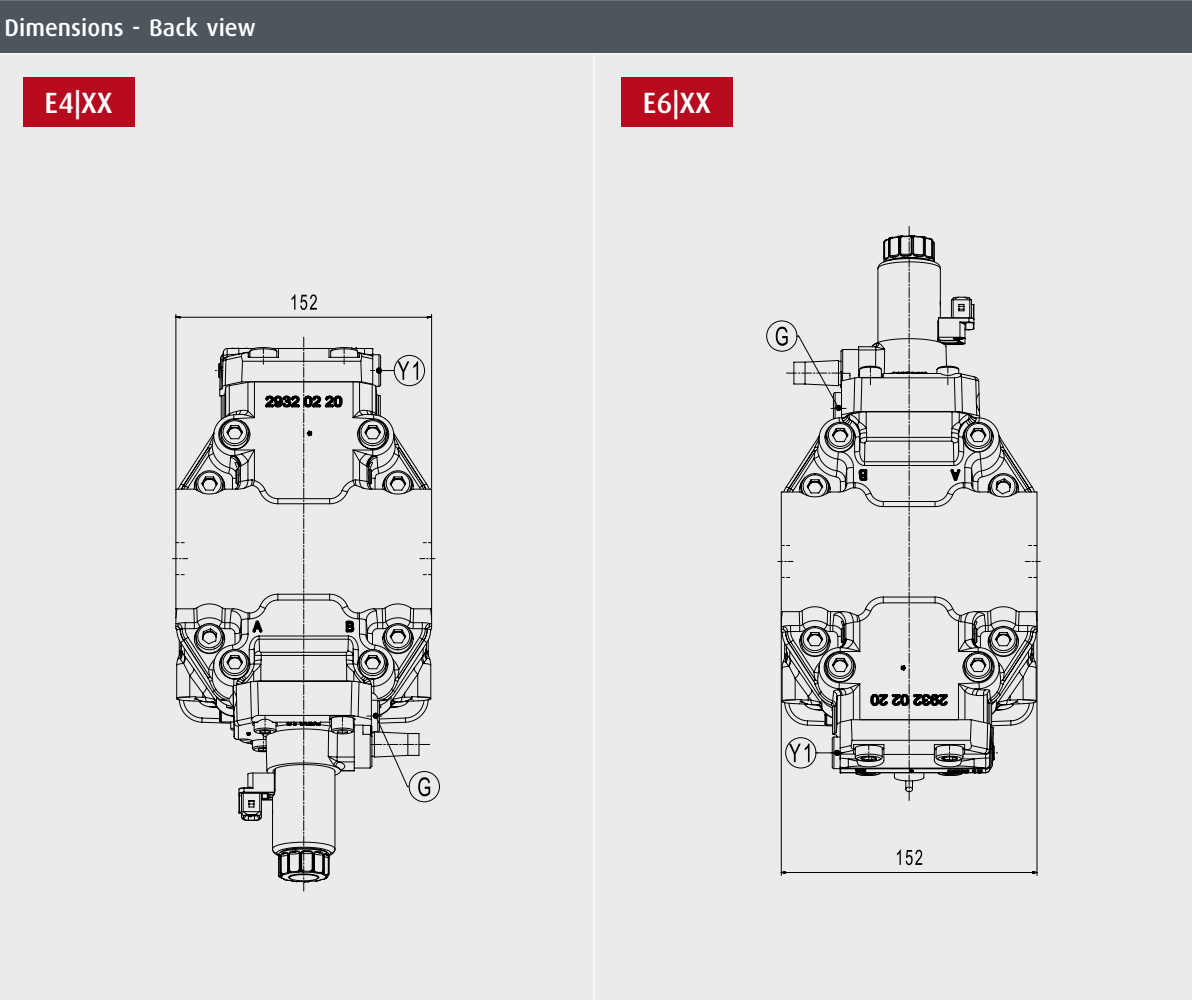
CMV 60-215



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E6 XX	Configuration with positive control (E6 displacement control). The other options shown do not determine the position of the w. ports and are chosen as an example.	B	High pressure work port, ISO 6162-2, If pressurised - motor runs counter-clockwise Nom. pres.: 450 bar, max. press.: 500 bar



AX	Pressure equalization port	G	Ext. control pressure supply, ISO 6149
BX		U	Bearing flush port, ISO 6149
T1	Drain / vent port, ISO 6149	Y1	Measuring port, ISO 6149
T2	Drain / vent port, ISO 6149		

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CMV 60-215

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CMV 60-215

RADIAL TWIN PORTS
ISO 6162-2

In combination with
ISO 3019-1 / SAE J744

CMV 60-215

In combination with
ISO 3019-2 metric

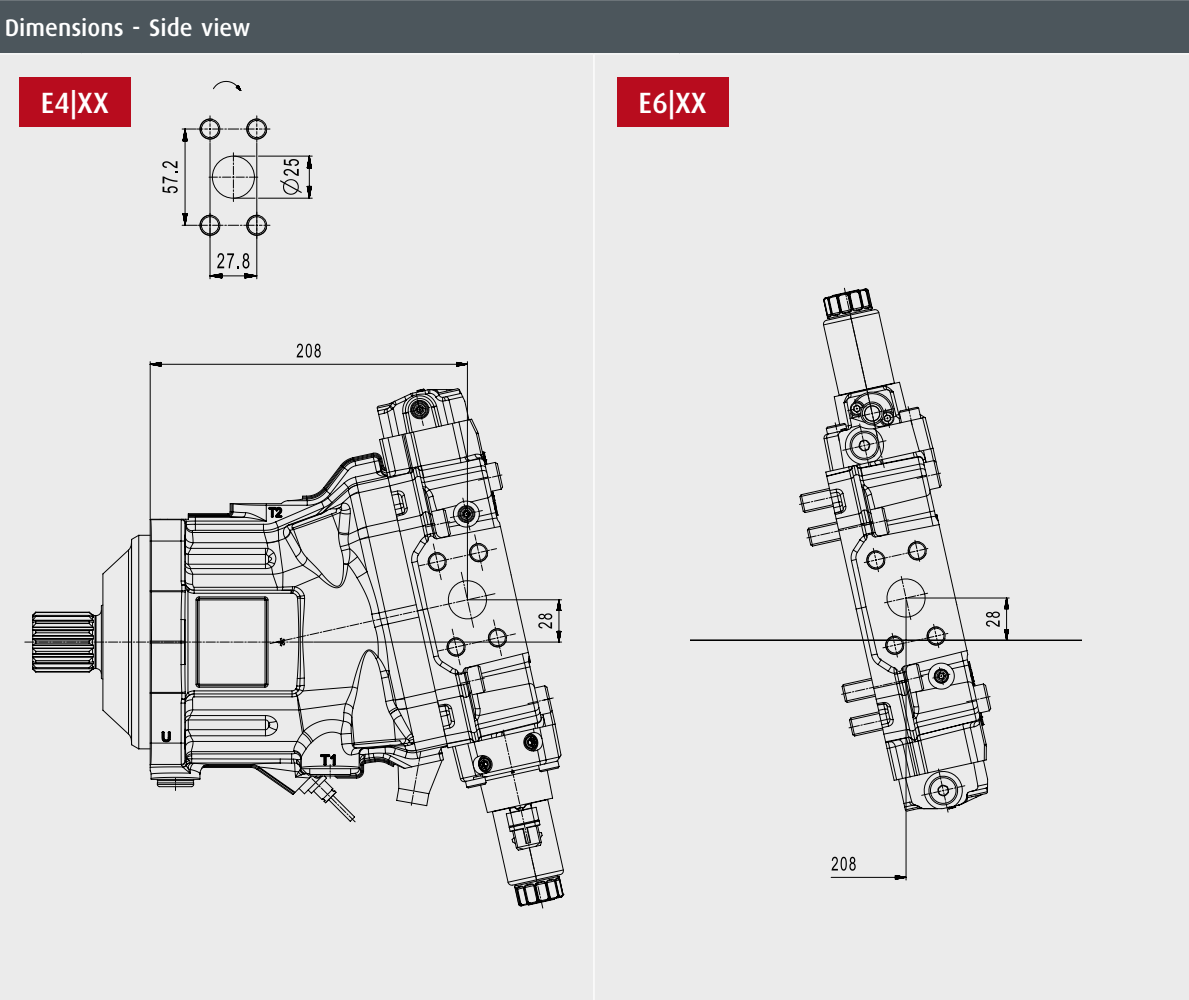
CMV 60-215

In combination with
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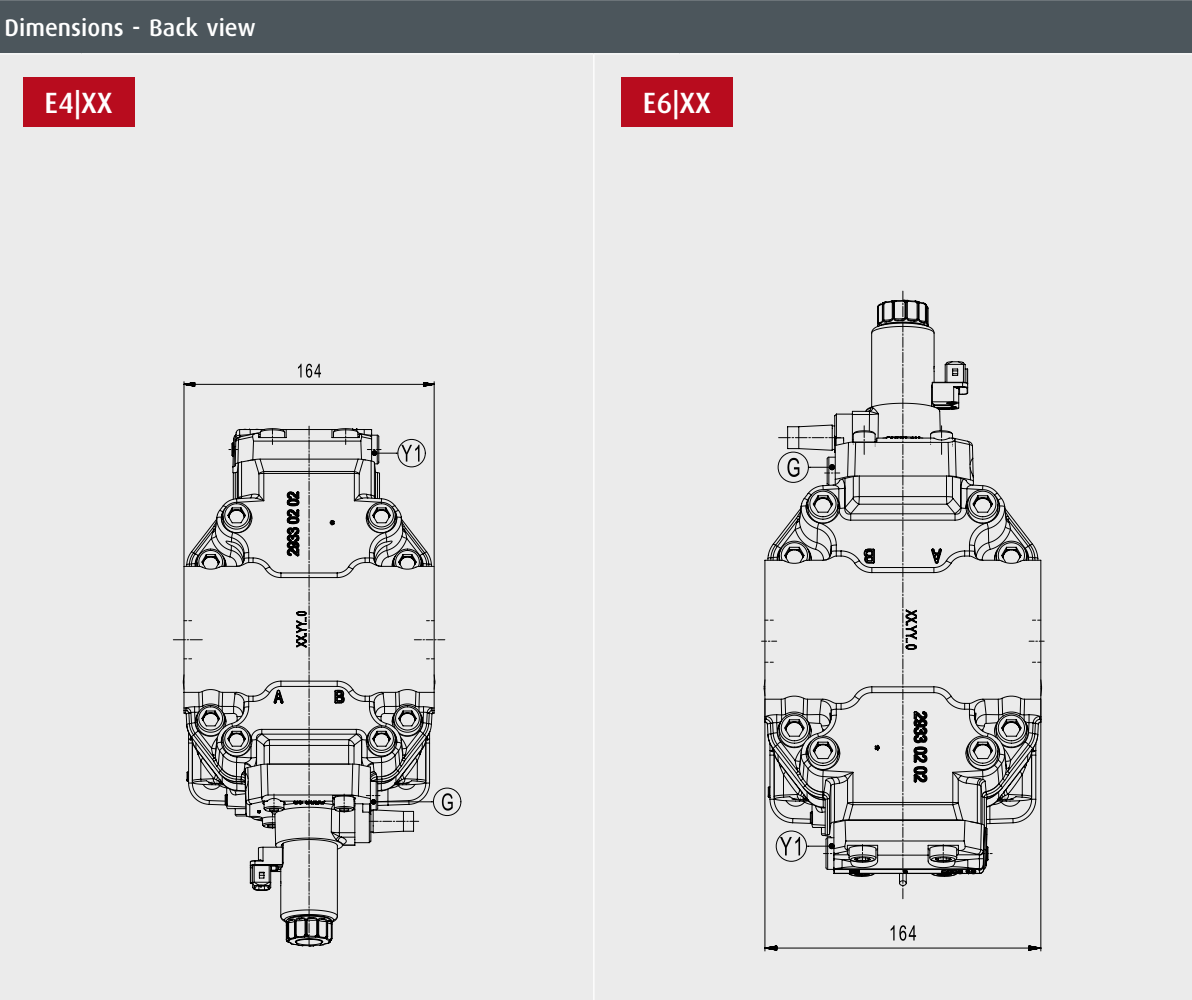
CMV 60-215



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E6 XX	Configuration with positive control (E6 displacement control). The other options shown do not determine the position of the w. ports and are chosen as an example.	B	High pressure work port, ISO 6162-2, SAE 1" If pressurised - motor runs counter-clockwise Nom. pres.: 450 bar, max. press.: 500 bar



AX	Pressure equalization port	G	Ext. control pressure supply, ISO 6149, M14x1.5, 11.5 mm deep
BX	Pressure equalization port	U	Bearing flush port, ISO 6149, M18x1.5, 14.5 mm deep
T1	Drain / vent port, ISO 6149, M22x1.5, 15.5 mm deep	Y1	Measuring port, ISO 6149, M14x1.5, 11.5 mm deep
T2	Drain / vent port, ISO 6149, M27x2, 19 mm deep		

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In combination with
ISO 3019-2 metric

CMV 60-215

In combination with
PLUG-IN, SIM. TO ISO 3019-2

CMV 60-215

RADIAL TWIN PORTS
ISO 6162-2

In combination with
ISO 3019-1 / SAE J744

CMV 60-215

In combination with
ISO 3019-2 metric

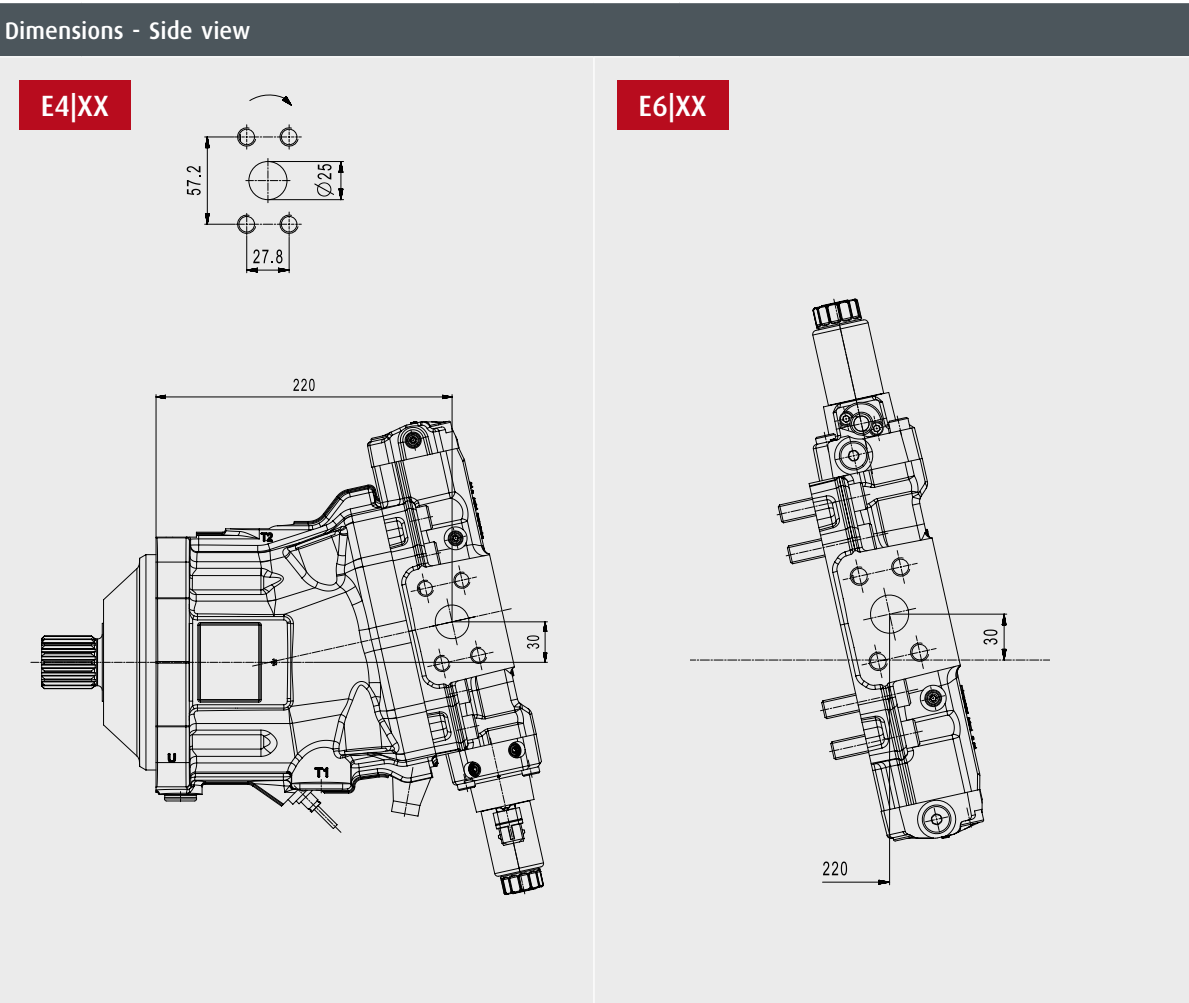
CMV 60-215

In combination with
PLUG-IN, SIM. TO ISO 3019-2

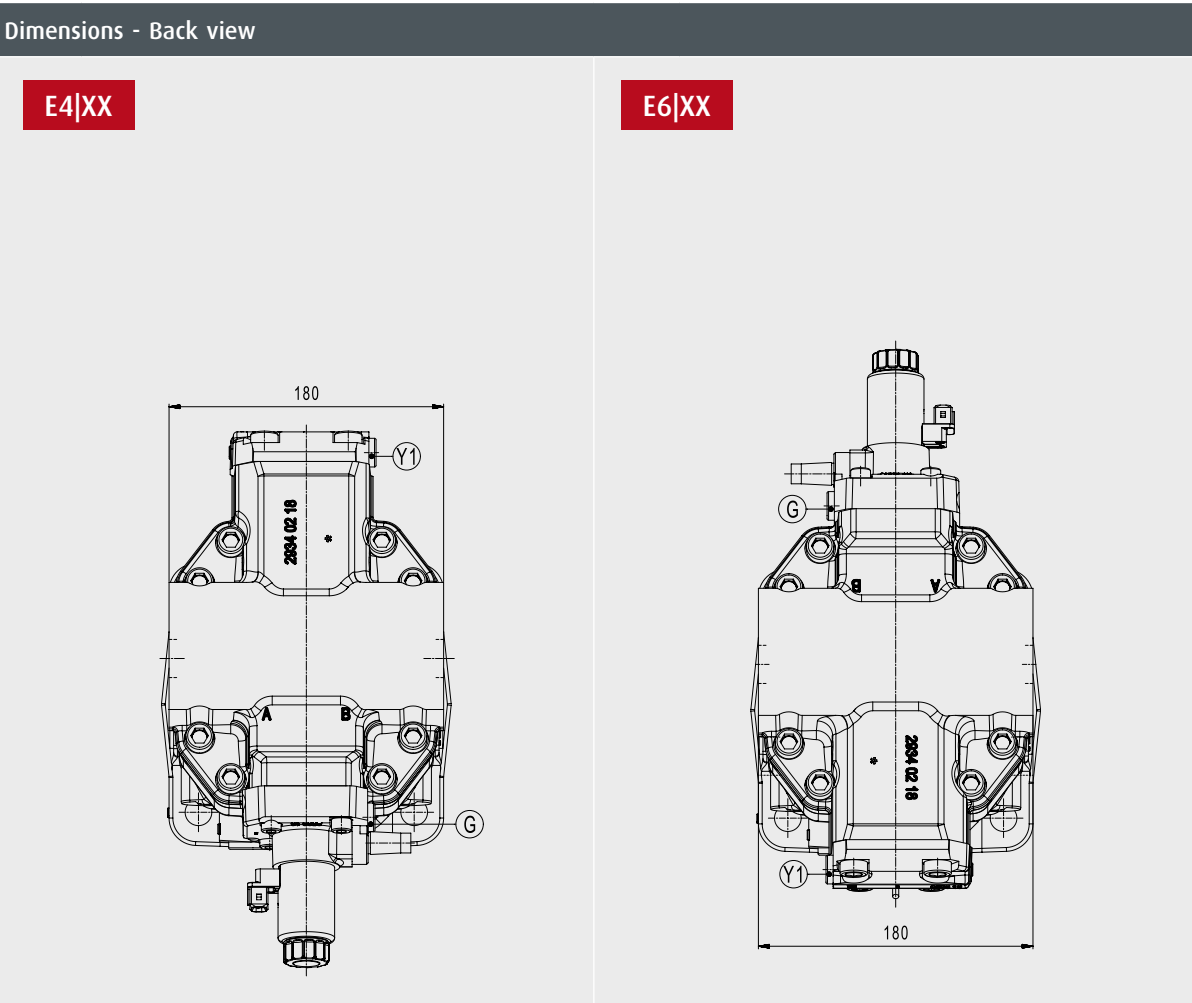
CMV 60-215



In the following you will find the technical specifications of the work ports. They are clustered according to the related mounting flange and nominal size. In the section [Model Code & Availability], you can then check the availability of the work ports in combination with additional functions integrated in the port plate housing. So please have a look at model-code [item 10. Port Plate housing] and compile your desired configuration.



E4 XX	Configuration with negative control (E4 displacement control). The other options shown do not determine the position of the w. ports and are chosen as an example.	A	High pressure work port, ISO 6162-2, SAE 1" If pressurised - motor runs clockwise Nom. pres.: 450 bar, max. press.: 500 bar
E6 XX	Configuration with positive control (E6 displacement control). The other options shown do not determine the position of the w. ports and are chosen as an example.	B	High pressure work port, ISO 6162-2, SAE 1" If pressurised - motor runs counter-clockwise Nom. pres.: 450 bar, max. press.: 500 bar



AX	Pressure equalization port	G	Ext. control pressure supply, ISO 6149, M14x1.5, 11.5 mm deep
BX		U	Bearing flush port, ISO 6149, M18x1.5, 14.5 mm deep
T1	Drain / vent port, ISO 6149, M27x2, 19 mm deep	Y1	Measuring port, ISO 6149, M14x1.5, 11.5 mm deep
T2	Drain / vent port, ISO 6149, M33x2, 19 mm deep		

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In combination with
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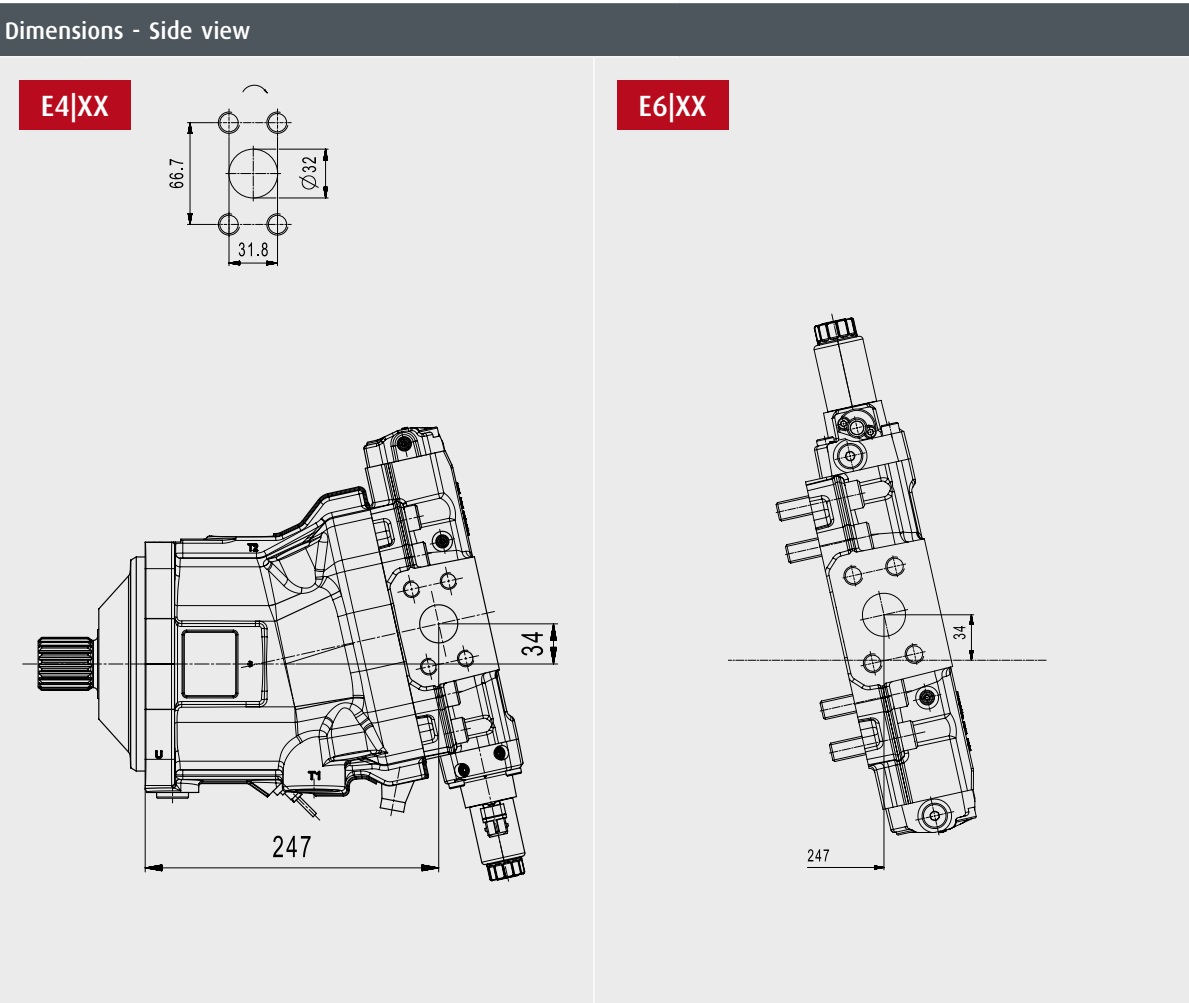
CMV 60-215

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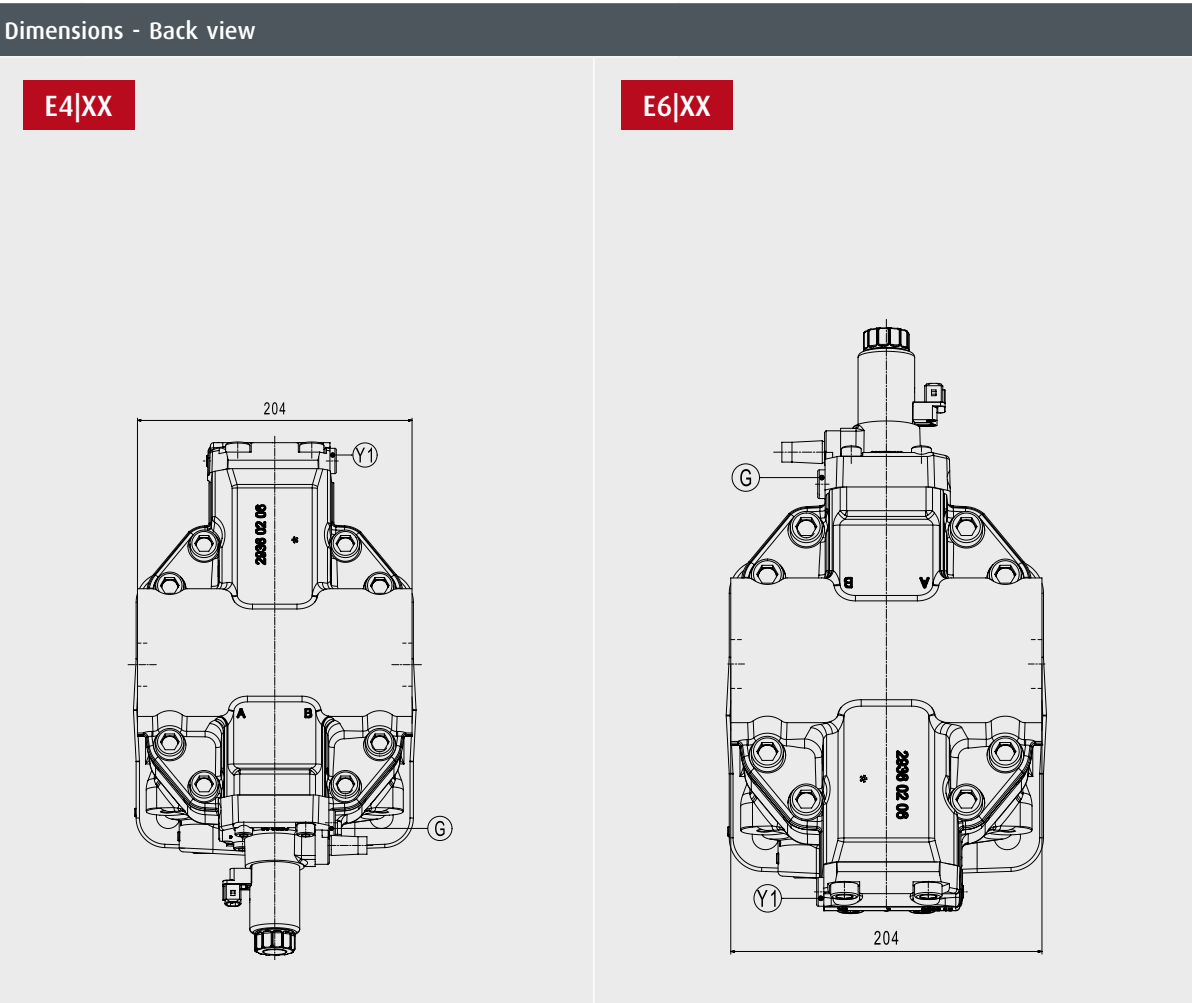
CMV 60-215



In the following you will find the technical specifications of the work ports. They are clustered according to the related mounting flange and nominal size. In the section [Model Code & Availability], you can then check the availability of the work ports in combination with additional functions integrated in the port plate housing. So please have a look at model-code [item 10. Port Plate housing] and compile your desired configuration.



E4 XX	Configuration with negative control (E4 displacement control). The other options shown do not determine the position of the w. ports and are chosen as an example.	A	High pressure work port, ISO 6162-2, SAE 1 1/4" If pressurised - motor runs clockwise Nom. pres.: 450 bar, max. press.: 500 bar
E6 XX	Configuration with positive control (E6 displacement control). The other options shown do not determine the position of the w. ports and are chosen as an example.	B	High pressure work port, ISO 6162-2, SAE 1 1/4" If pressurised - motor runs counter-clockwise Nom. pres.: 450 bar, max. press.: 500 bar



AX	Pressure equalization port	G	Ext. control pressure supply, ISO 6149, M14x1.5, 11.5 mm deep
BX	Pressure equalization port	U	Bearing flush port, ISO 6149, M22x1.5, 15.5 mm deep
T1	Drain / vent port, ISO 6149, M27x2, 19 mm deep	Y1	Measuring port, ISO 6149, M14x1.5, 11.5 mm deep
T2	Drain / vent port, ISO 6149, M33x2, 19 mm deep		

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CMV 60-215

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In combination with
ISO 3019-2 metric

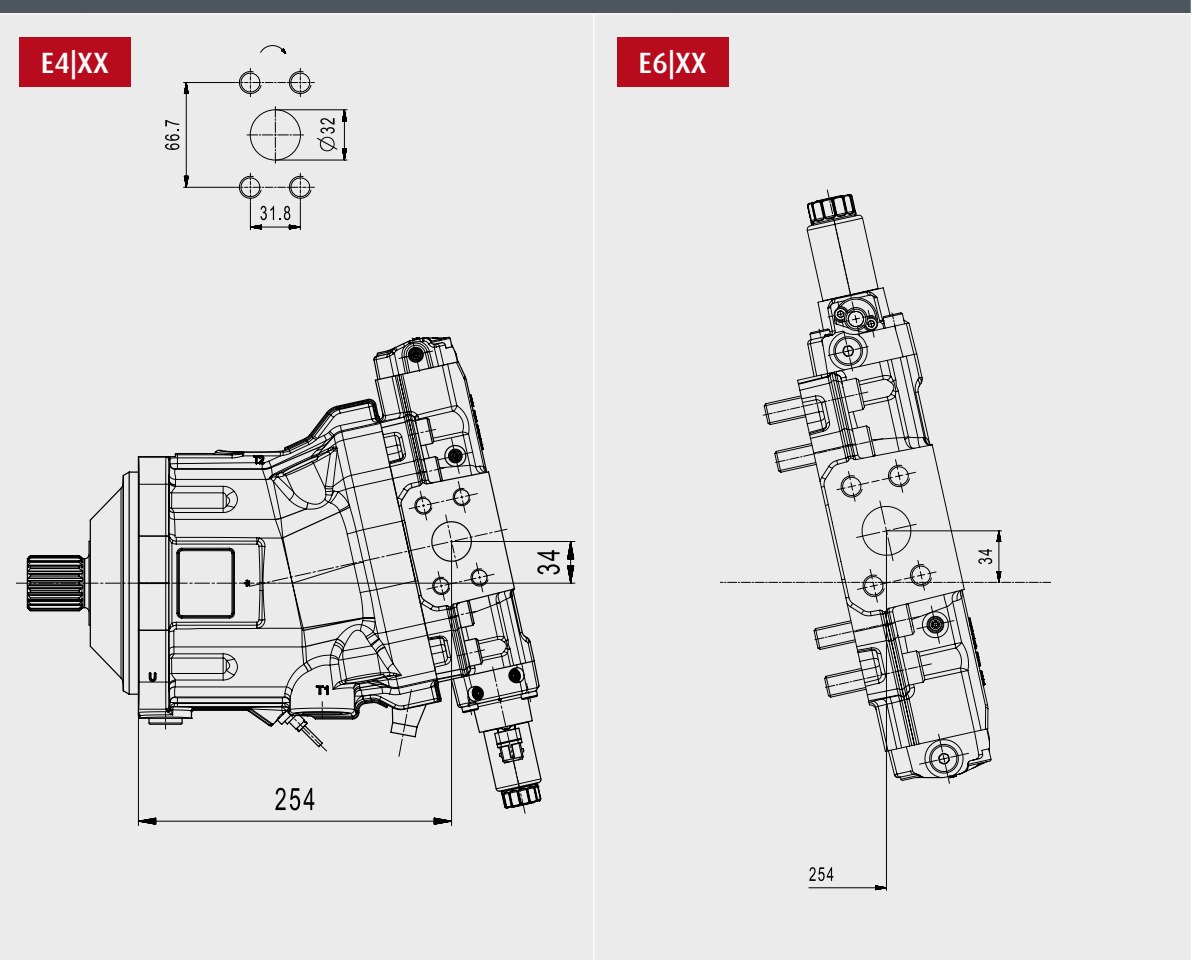
CMV 60-215

In combination with
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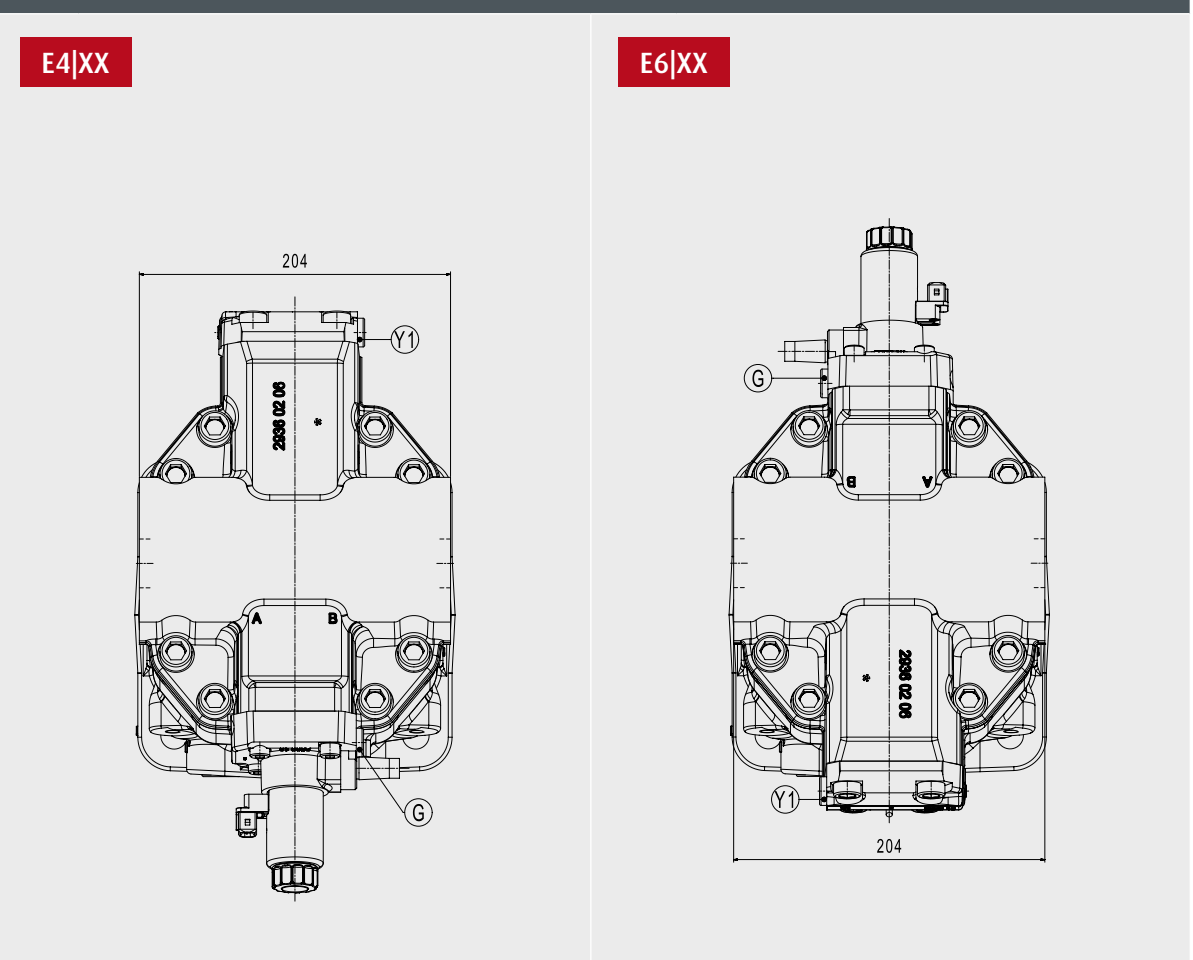
In the following you will find the technical specifications of the work ports. They are clustered according to the related mounting flange and nominal size. In the section [Model Code & Availability], you can then check the availability of the work ports in combination with additional functions integrated in the port plate housing. So please have a look at model-code [item 10. Port Plate housing] and compile your desired configuration.

Dimensions - Side view



E4 XX	Configuration with negative control (E4 displacement control). The other options shown do not determine the position of the w. ports and are chosen as an example.	A	High pressure work port, ISO 6162-2, SAE 1 1/4" If pressurised - motor runs clockwise Nom. pres.: 450 bar, max. press.: 500 bar
E6 XX	Configuration with positive control (E6 displacement control). The other options shown do not determine the position of the w. ports and are chosen as an example.	B	High pressure work port, ISO 6162-2, SAE 1 1/4" If pressurised - motor runs counter-clockwise Nom. pres.: 450 bar, max. press.: 500 bar

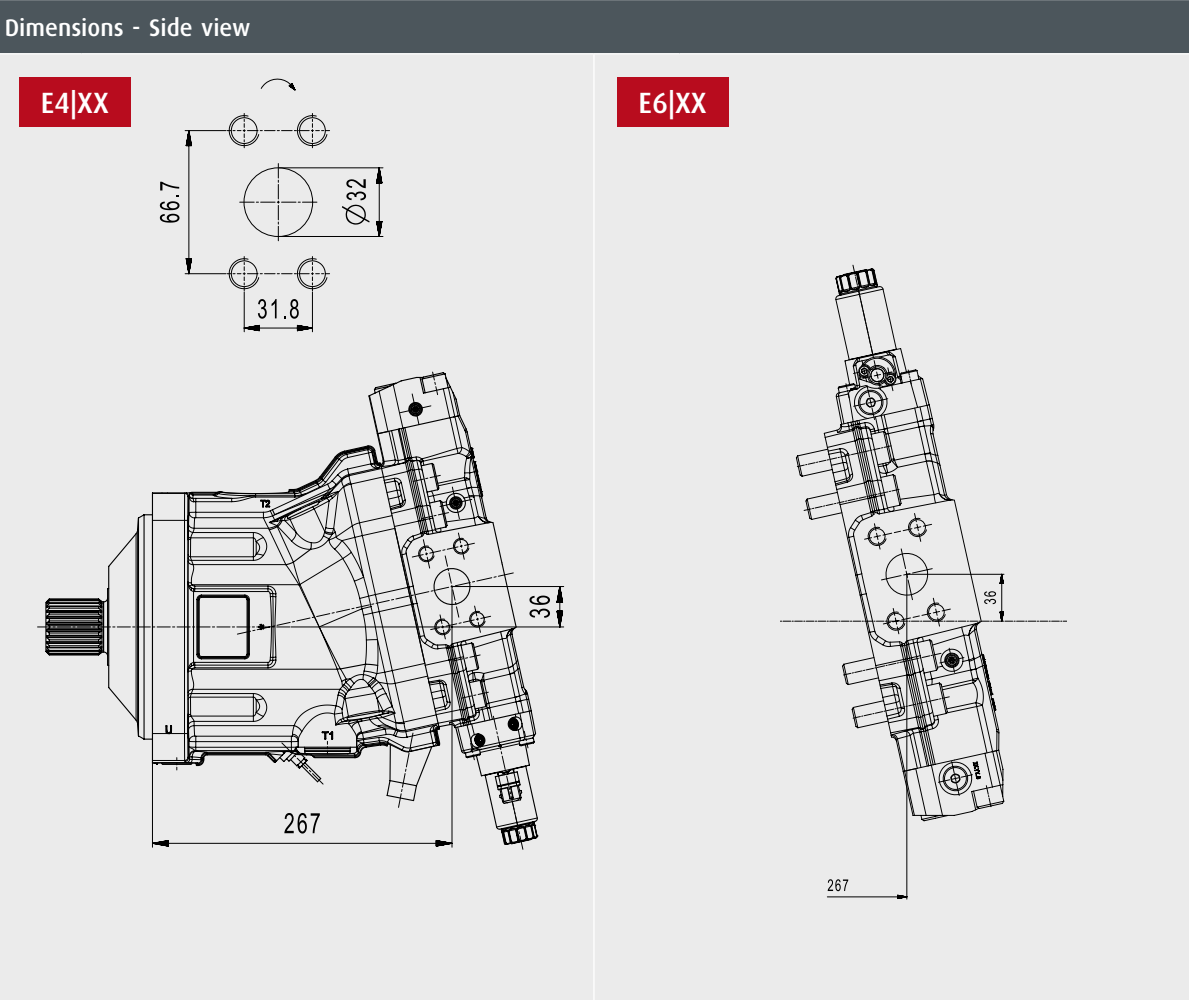
Dimensions - Back view



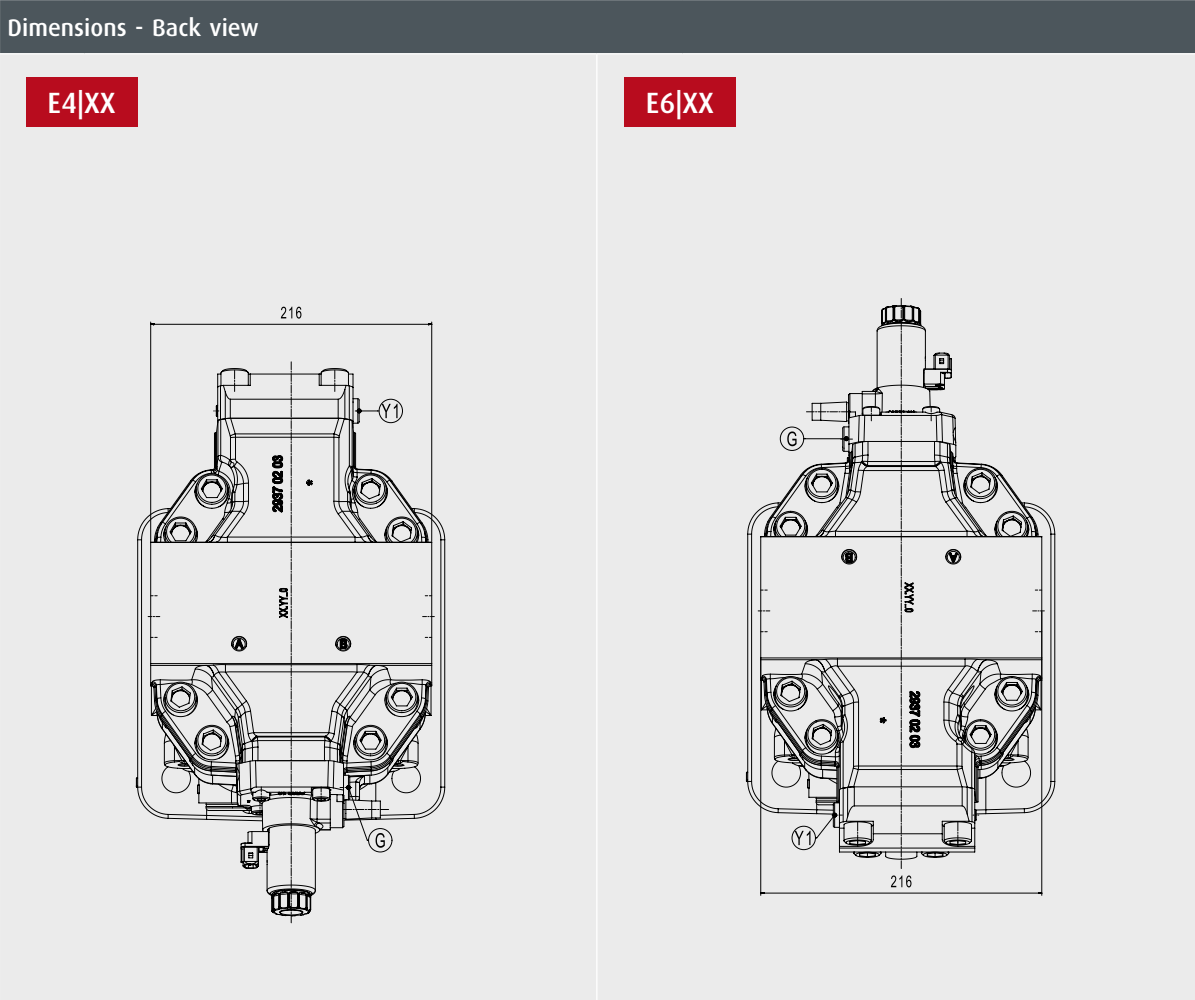
AX	Pressure equalization port, ISO 6149, M14x1.5, 11.5 mm deep	G	Ext. control pressure supply, ISO 6149, M14x1.5, 11.5 mm deep
BX		U	Bearing flush port, ISO 6149, M22x1.5, 15.5 mm deep
T1	Drain / vent port, ISO 6149, M27x2, 19 mm deep	Y1	Measuring port, ISO 6149, M14x1.5, 11.5 mm deep
T2	Drain / vent port, ISO 6149, M33x2, 19 mm deep		



In the following you will find the technical specifications of the work ports. They are clustered according to the related mounting flange and nominal size. In the section [Model Code & Availability], you can then check the availability of the work ports in combination with additional functions integrated in the port plate housing. So please have a look at model-code [item 10. Port Plate housing] and compile your desired configuration.



E4 XX	Configuration with negative control (E4 displacement control). The other options shown do not determine the position of the w. ports and are chosen as an example.	A	High pressure work port, ISO 6162-2, SAE 1 1/4" If pressurised - motor runs clockwise Nom. pres.: 450 bar, max. press.: 500 bar
E6 XX	Configuration with positive control (E6 displacement control). The other options shown do not determine the position of the w. ports and are chosen as an example.	B	High pressure work port, ISO 6162-2, SAE 1 1/4" If pressurised - motor runs counter-clockwise Nom. pres.: 450 bar, max. press.: 500 bar



AX	Pressure equalization port, ISO 6149, M22x1.5, 15.5 mm deep	G	Ext. control pressure supply, ISO 6149, M14x1.5, 11.5 mm deep
BX		U	Bearing flush port, ISO 6149, M22x1.5, 15.5 mm deep
T1	Drain / vent port, ISO 6149, M33x2, 19 mm deep	Y1	Measuring port, ISO 6149, M14x1.5, 11.5 mm deep
T2	Drain / vent port, ISO 6149, M42x2, 19.5 mm deep		



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CMV 60-215

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ISO 6162-2

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CMV 60-215

In combination with
ISO 3019-2 metric

CMV 60-215

In combination with
PLUG-IN, SIM. TO ISO 3019-2

CMV 60-215

RADIAL TWIN PORTS
ISO 6162-2

In combination with
ISO 3019-1 / SAE J744

CMV 60-215

In combination with
ISO 3019-2 metric

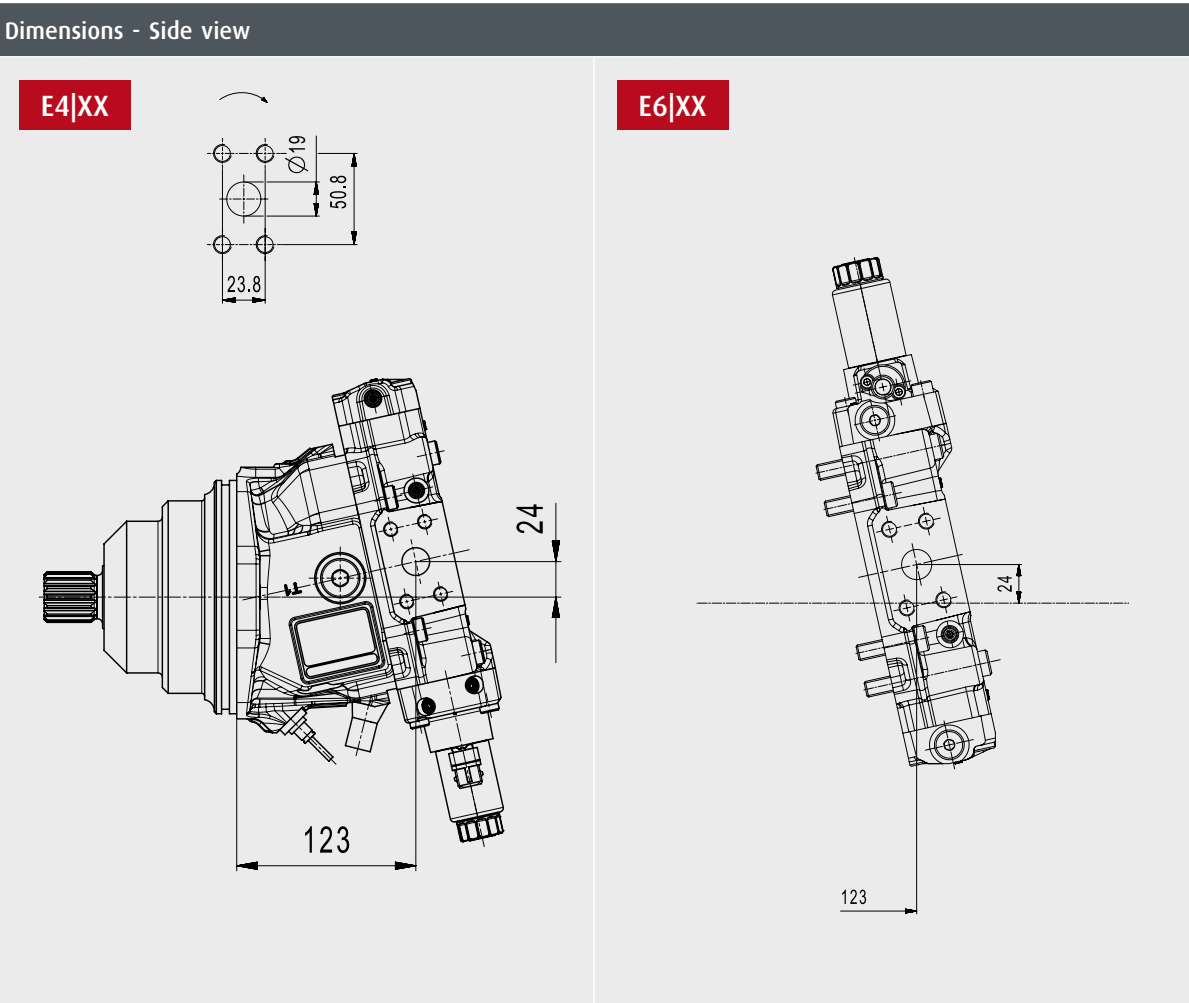
CMV 60-215

In combination with
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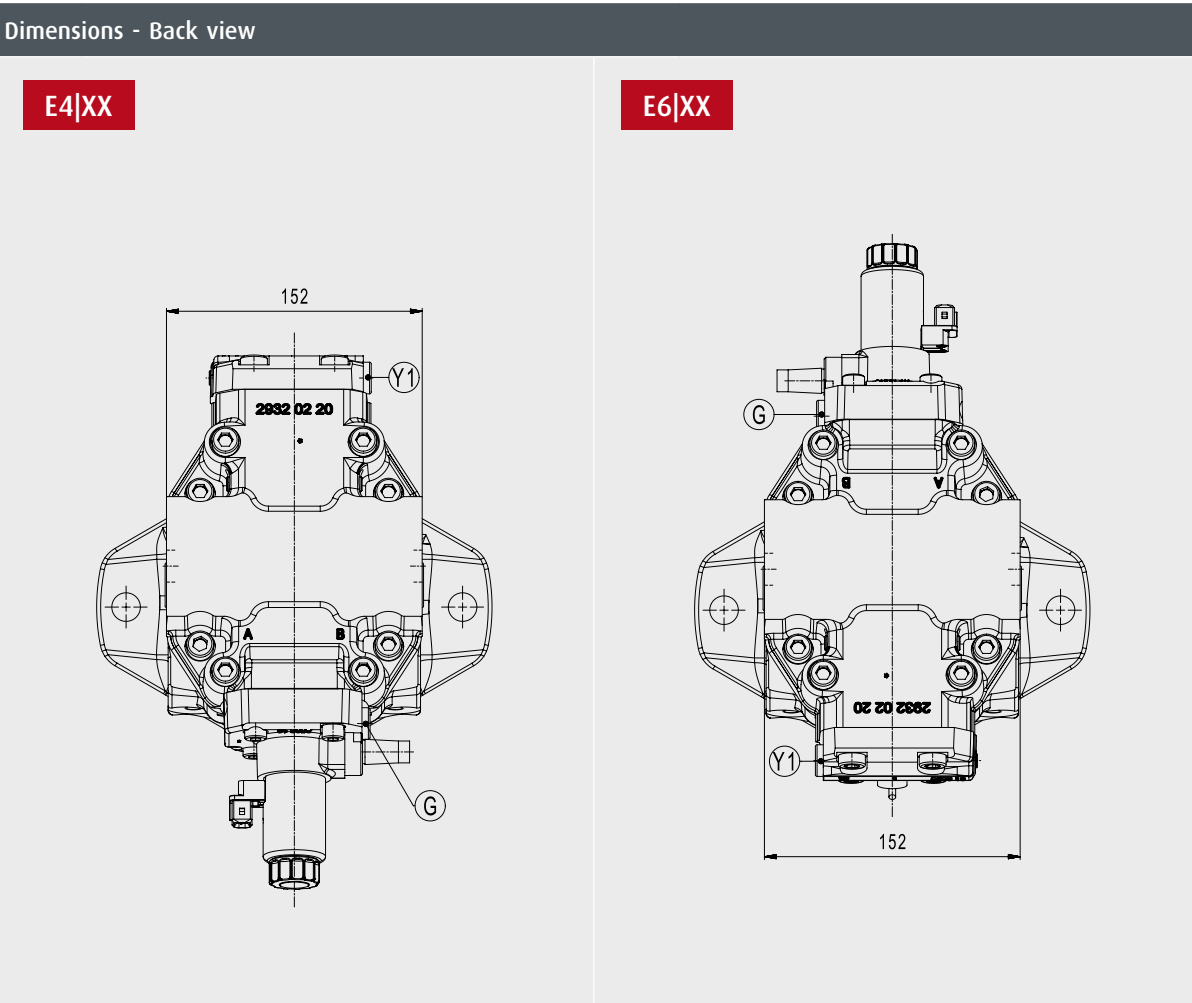
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In the following you will find the technical specifications of the work ports. They are clustered according to the related mounting flange and nominal size. In the section [Model Code & Availability], you can then check the availability of the work ports in combination with additional functions integrated in the port plate housing. So please have a look at model-code [item 10. Port Plate housing] and compile your desired configuration.



E4 XX	Configuration with negative control (E4 displacement control). The other options shown do not determine the position of the w. ports and are chosen as an example.	A	High pressure work port, ISO 6162-2, If pressurised - motor runs clockwise Nom. pres.: 450 bar, max. press.: 500 bar
E6 XX	Configuration with positive control (E6 displacement control). The other options shown do not determine the position of the w. ports and are chosen as an example.	B	High pressure work port, ISO 6162-2, If pressurised - motor runs counter-clockwise Nom. pres.: 450 bar, max. press.: 500 bar



AX	Pressure equalization port	G	Ext. control pressure supply, ISO 6149
BX		U	Bearing flush port, ISO 6149
T1	Drain / vent port, ISO 6149	Y1	Measuring port, ISO 6149
T2	Drain / vent port, ISO 6149		

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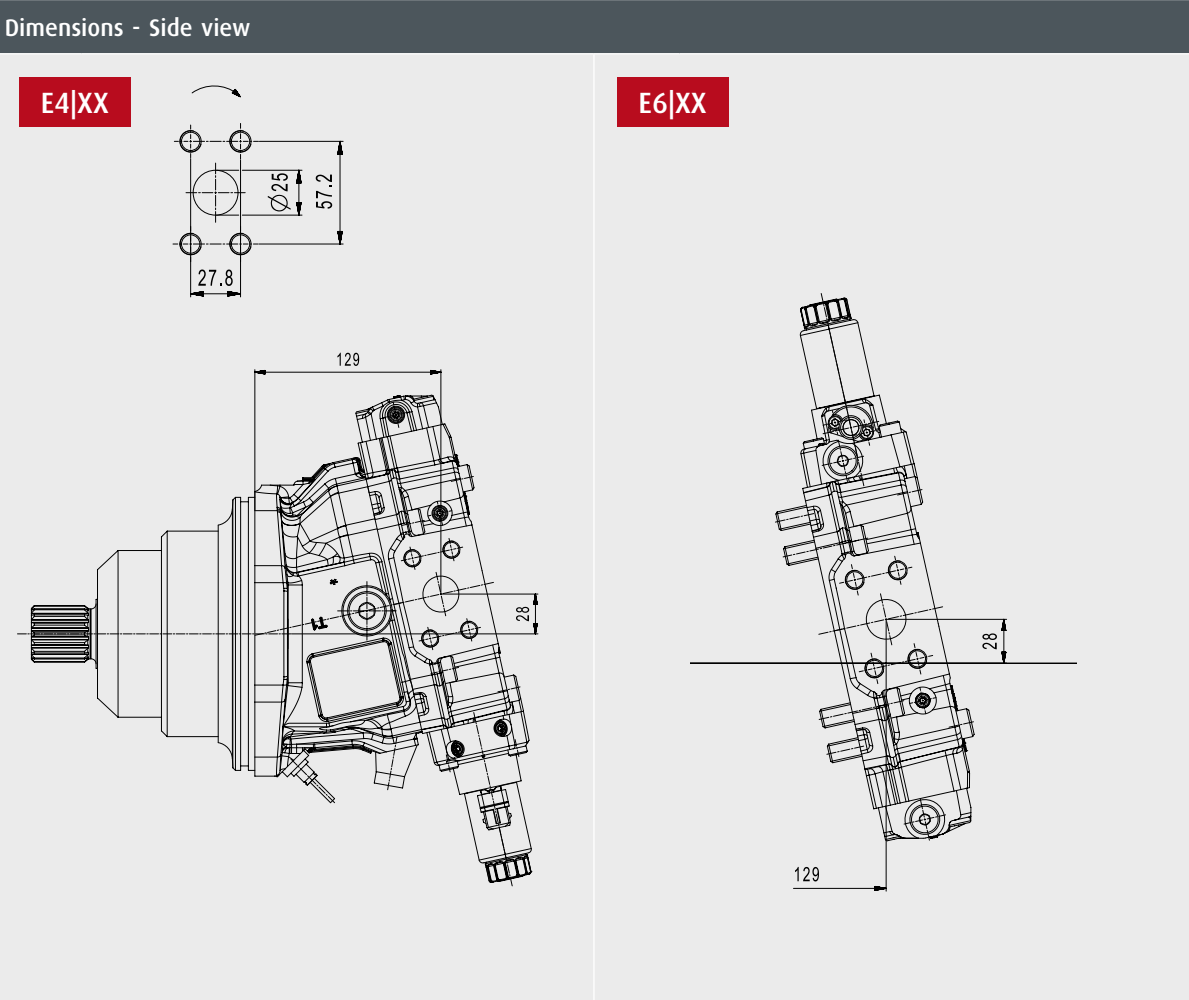
CMV 60-215

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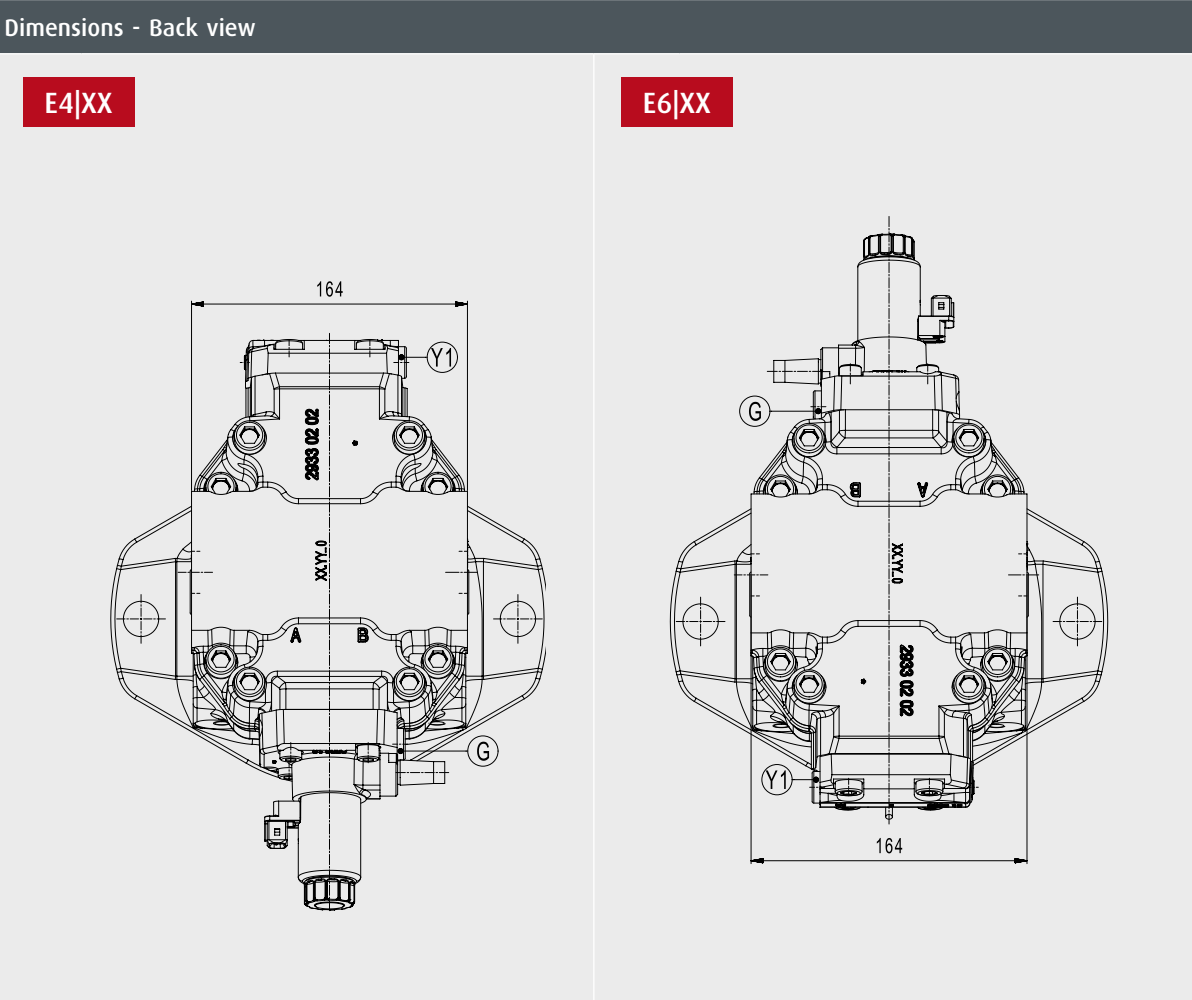
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E4 XX	Configuration with negative control (E4 displacement control). The other options shown do not determine the position of the w. ports and are chosen as an example.	A	High pressure work port, ISO 6162-2, SAE 1" If pressurised - motor runs clockwise Nom. pres.: 450 bar, max. press.: 500 bar
E6 XX	Configuration with positive control (E6 displacement control). The other options shown do not determine the position of the w. ports and are chosen as an example.	B	High pressure work port, ISO 6162-2, SAE 1" If pressurised - motor runs counter-clockwise Nom. pres.: 450 bar, max. press.: 500 bar



AX	Pressure equalization port	G	Ext. control pressure supply, ISO 6149, M14x1.5, 11.5 mm deep
BX	Pressure equalization port	U	Bearing flush port, ISO 6149, M18x1.5, 14.5 mm deep
T1	Drain / vent port, ISO 6149, M22x1.5, 15.5 mm deep	Y1	Measuring port, ISO 6149, M14x1.5, 11.5 mm deep
T2	Drain / vent port, ISO 6149, M27x2, 19 mm deep		

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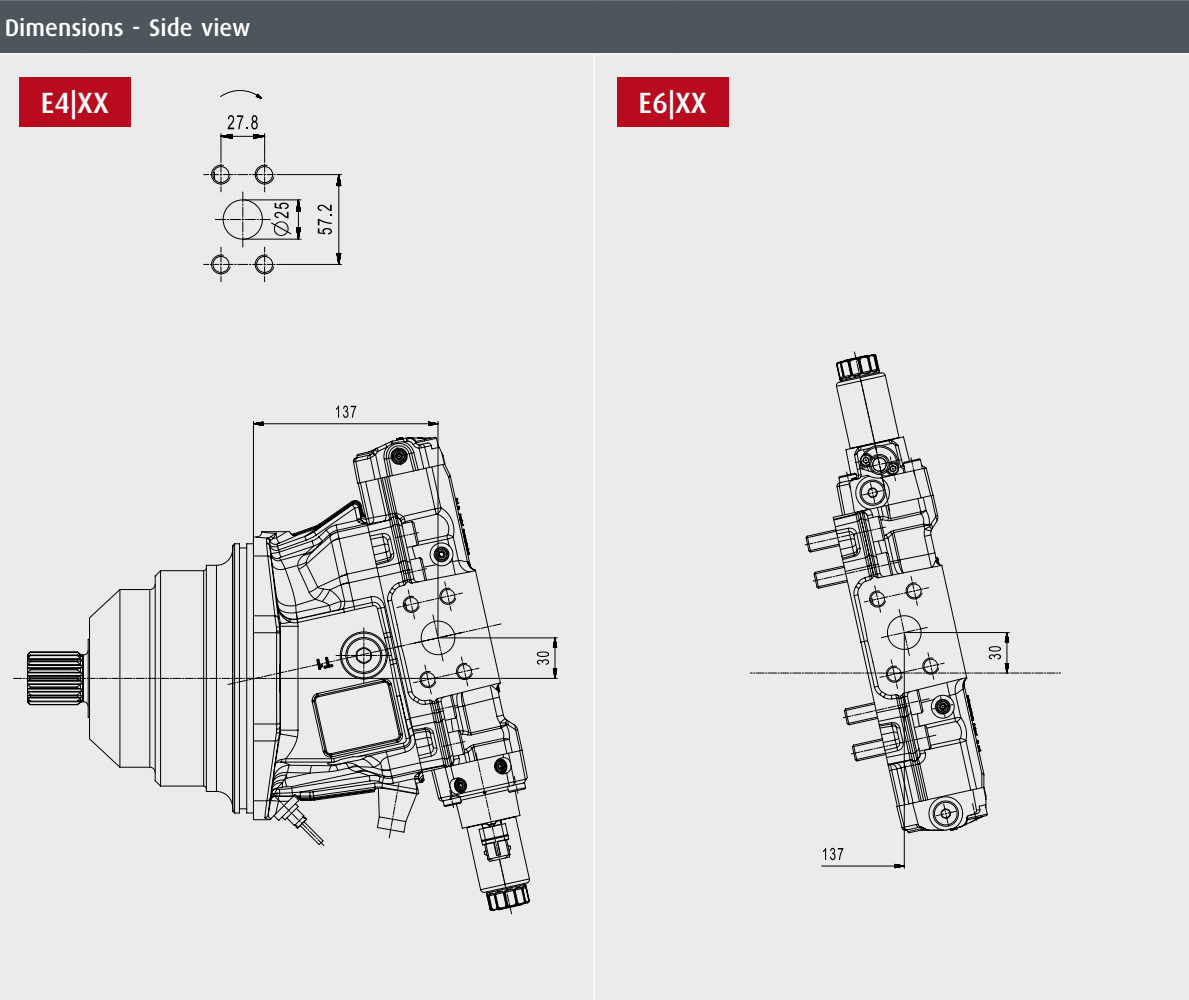
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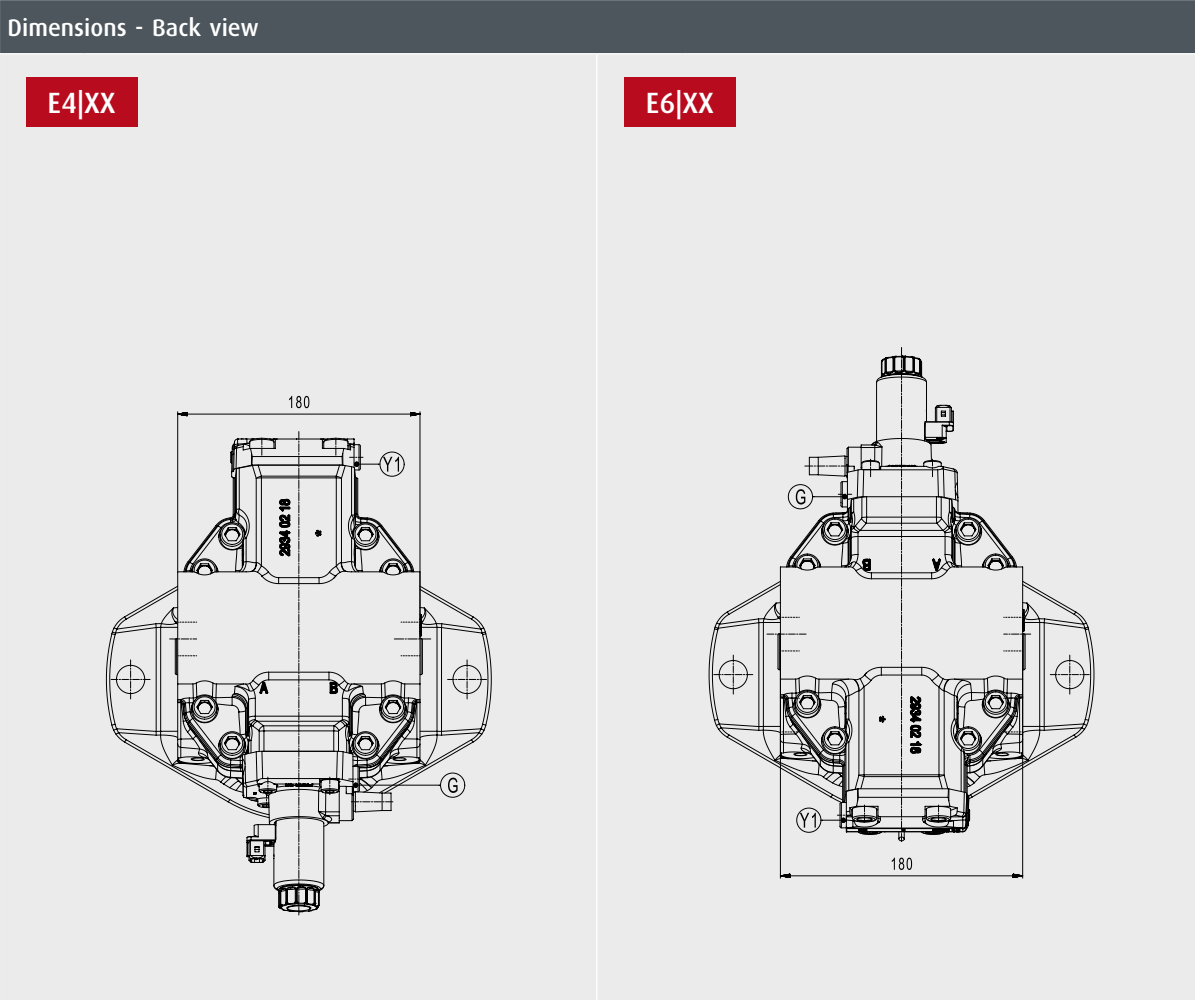
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E6 XX	Configuration with positive control (E6 displacement control). The other options shown do not determine the position of the w. ports and are chosen as an example.	B	High pressure work port, ISO 6162-2, SAE 1" If pressurised - motor runs counter-clockwise Nom. pres.: 450 bar, max. press.: 500 bar



AX	Pressure equalization port	G	Ext. control pressure supply, ISO 6149, M14x1.5, 11.5 mm deep
BX	Pressure equalization port	U	Bearing flush port, ISO 6149, M18x1.5, 14.5 mm deep
T1	Drain / vent port, ISO 6149, M27x2, 19 mm deep	Y1	Measuring port, ISO 6149, M14x1.5, 11.5 mm deep
T2	Drain / vent port, ISO 6149, M33x2, 19 mm deep		

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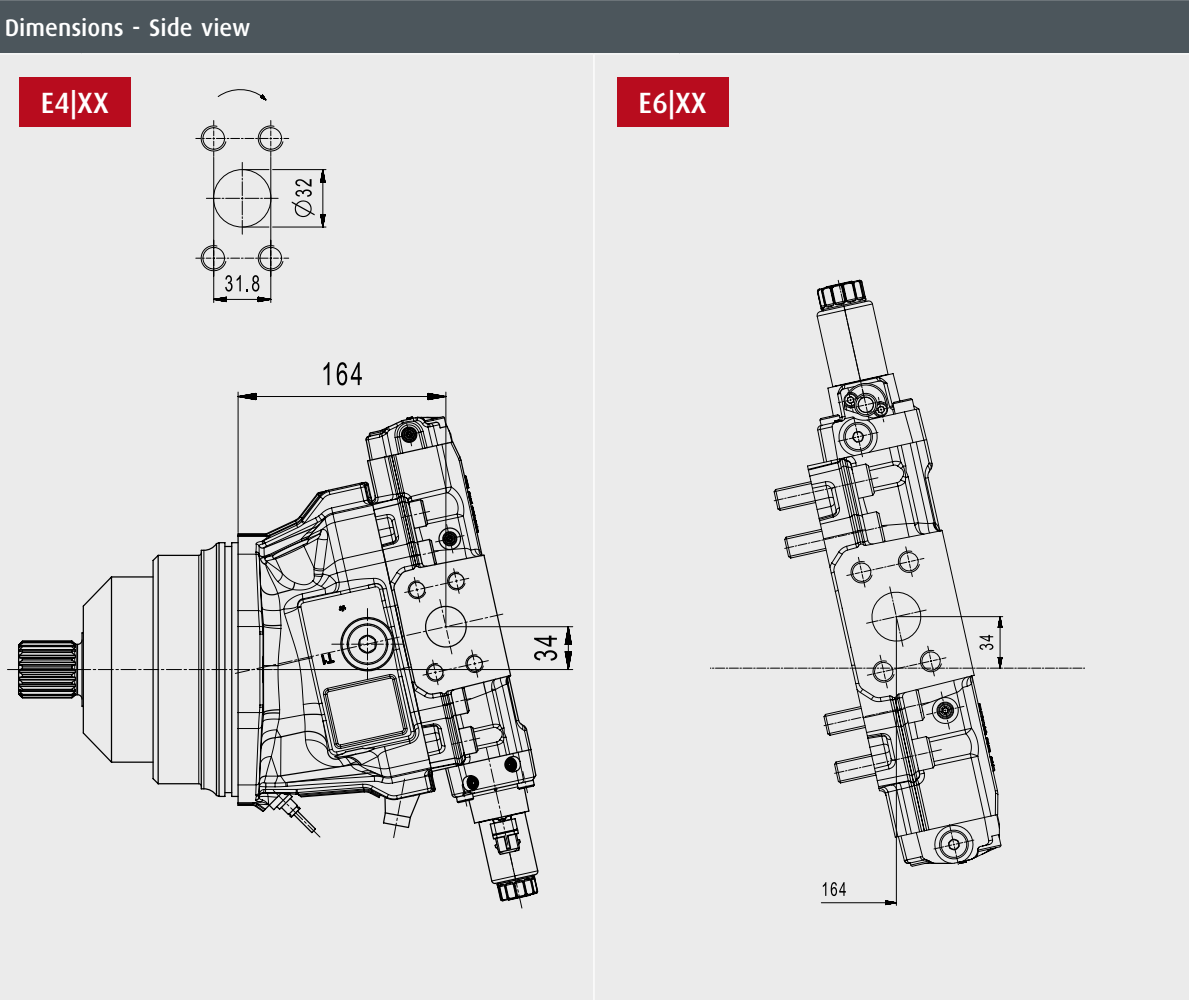
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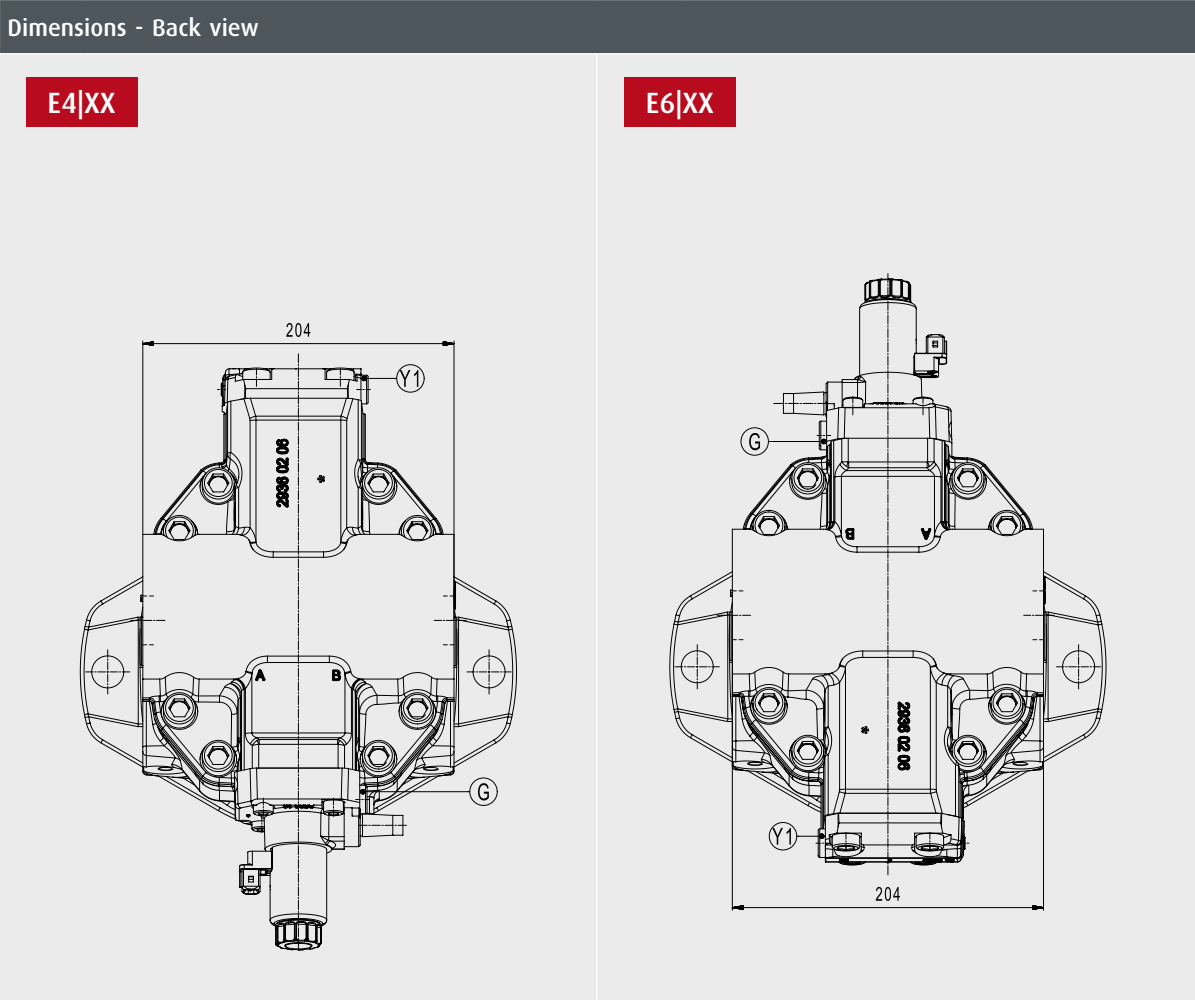
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E6 XX	Configuration with positive control (E6 displacement control). The other options shown do not determine the position of the w. ports and are chosen as an example.	B	High pressure work port, ISO 6162-2, SAE 1 1/4" If pressurised - motor runs counter-clockwise Nom. pres.: 450 bar, max. press.: 500 bar



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T2	Drain / vent port, ISO 6149, M33x2, 19 mm deep		

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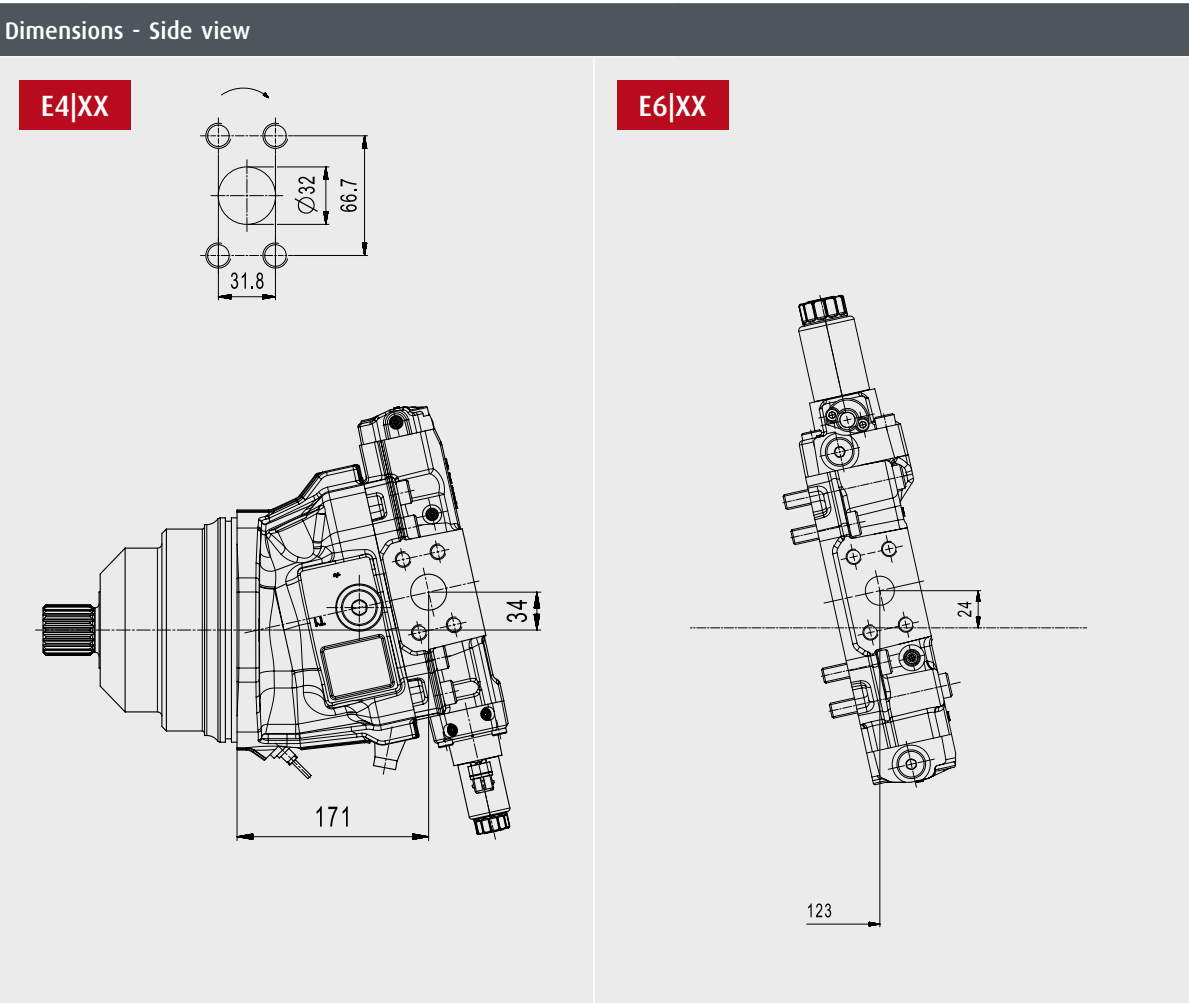
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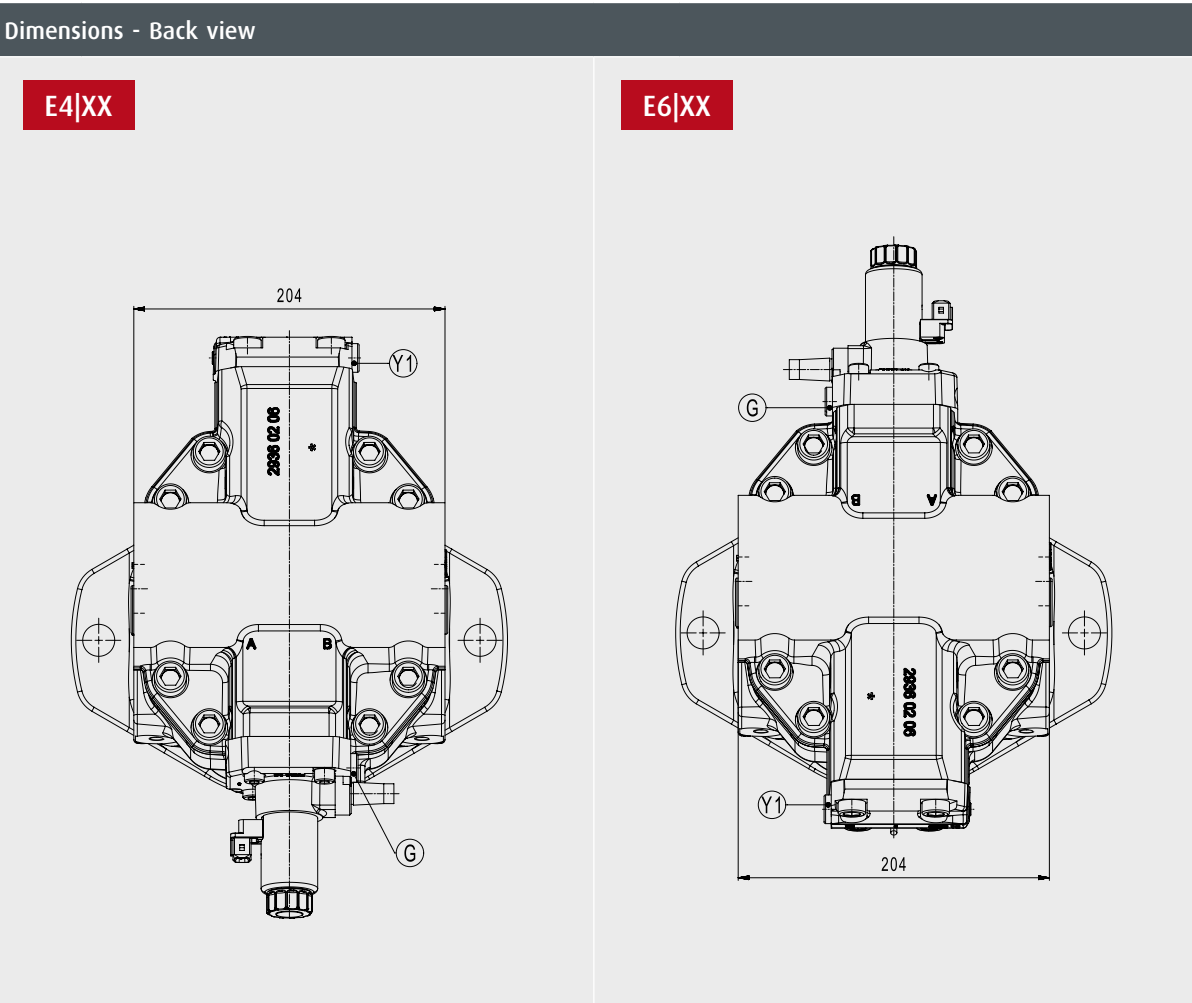
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AX	Pressure equalization port, ISO 6149, M14x1.5, 11.5 mm deep	G	Ext. control pressure supply, ISO 6149, M14x1.5, 11.5 mm deep
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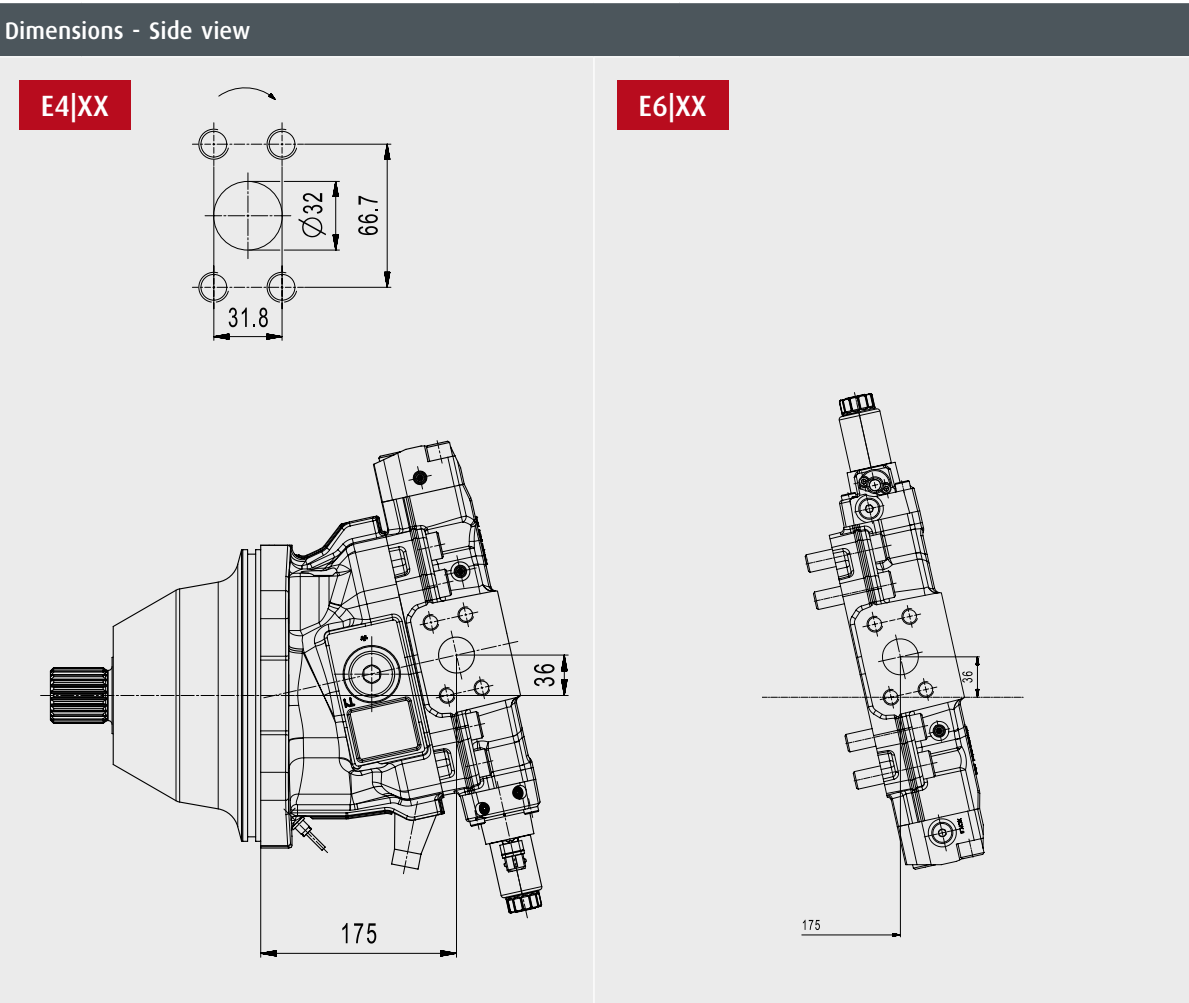
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In combination with
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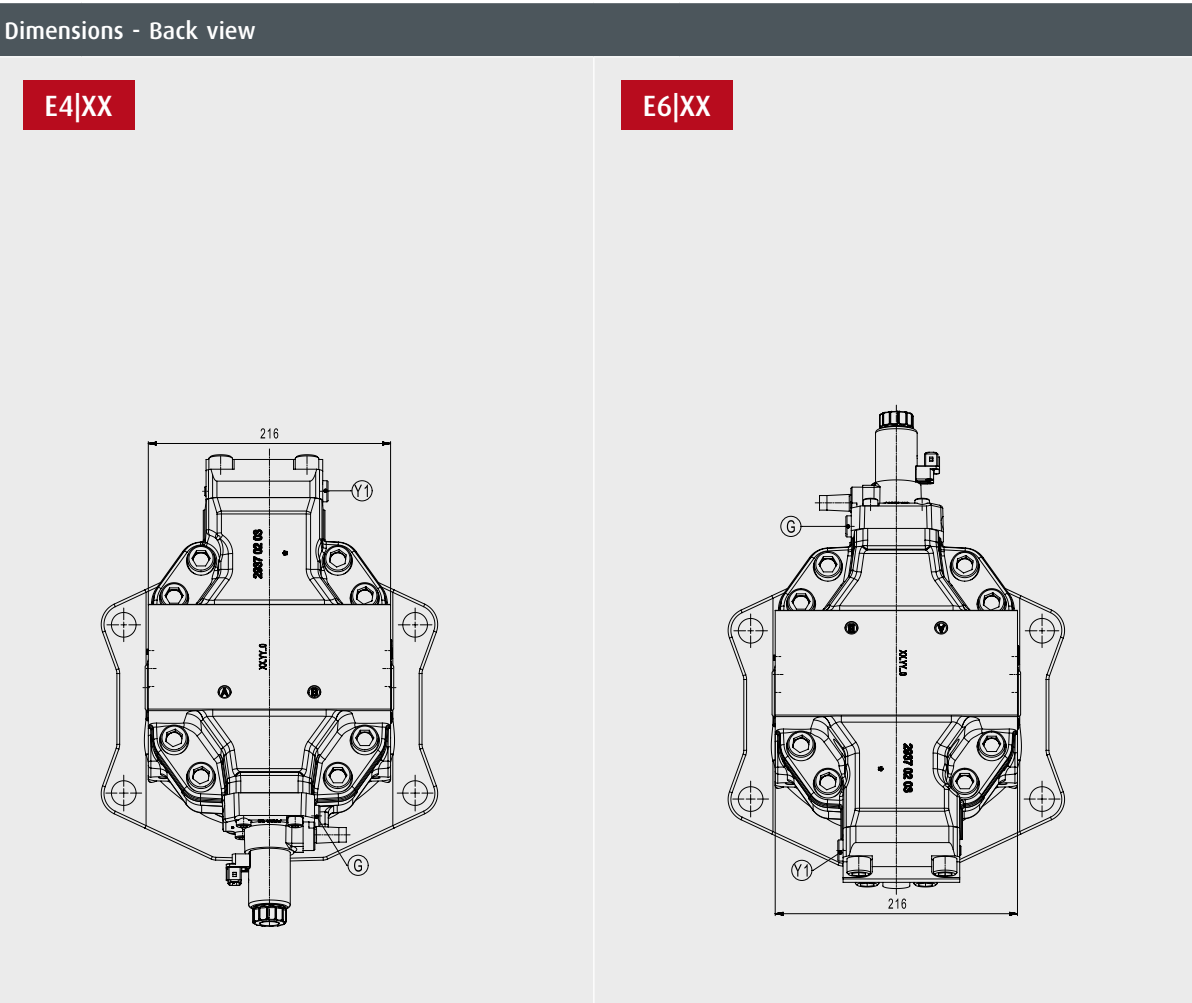
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E6 XX	Configuration with positive control (E6 displacement control). The other options shown do not determine the position of the w. ports and are chosen as an example.	B	High pressure work port, ISO 6162-2, SAE 1 1/4" If pressurised - motor runs counter-clockwise Nom. pres.: 450 bar, max. press.: 500 bar



AX	Pressure equalization port, ISO 6149, M22x1.5, 15.5 mm deep	G	Ext. control pressure supply, ISO 6149, M14x1.5, 11.5 mm deep
BX		U	Bearing flush port, ISO 6149, M22x1.5, 15.5 mm deep
T1	Drain / vent port, ISO 6149, M33x2, 19 mm deep	Y1	Measuring port, ISO 6149, M14x1.5, 11.5 mm deep
T2	Drain / vent port, ISO 6149, M42x2, 19.5 mm deep		

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Technical Specification | Work Ports | Radial Twin Ports | ISO SAE | **CMV 85**

In the following you will find the technical specifications of the work ports. They are clustered according to the related mounting flange and nominal size. In the section [Model Code & Availability], you can then check the availability of the work ports in combination with additional functions integrated in the port plate housing. So please have a look at model-code [item 10. Port Plate housing] and compile your desired configuration.

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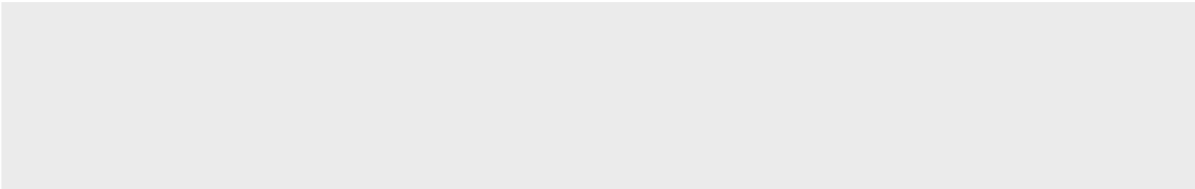
In combination with
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CMV 60-215



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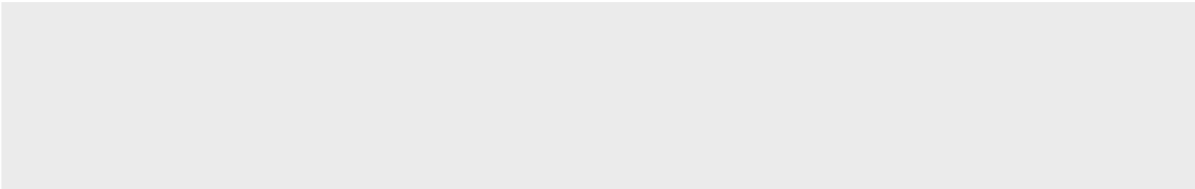
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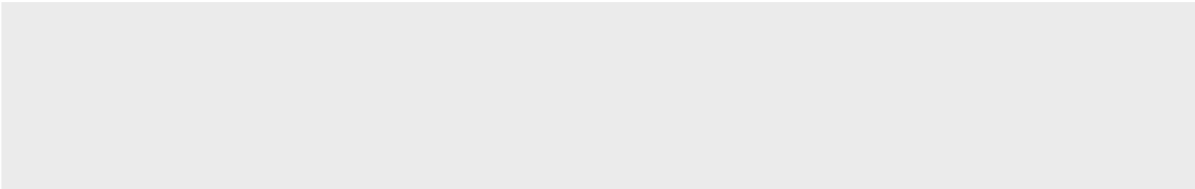
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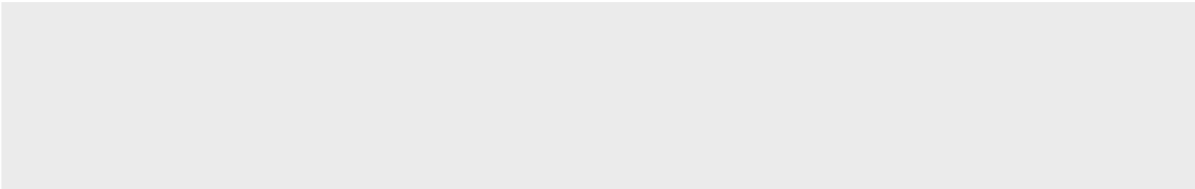
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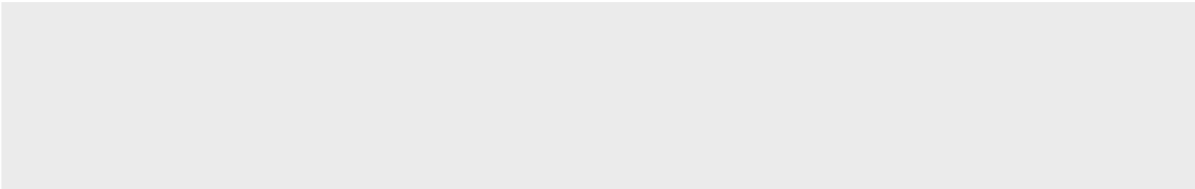
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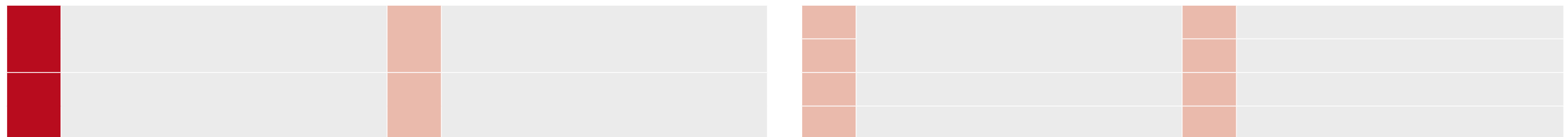
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In the following you will find the technical specifications of the work ports. They are clustered according to the related mounting flange and nominal size. In the section [Model Code & Availability], you can then check the availability of the work ports in combination with additional functions integrated in the port plate housing. So please have a look at model-code [item 10. Port Plate housing] and compile your desired configuration.

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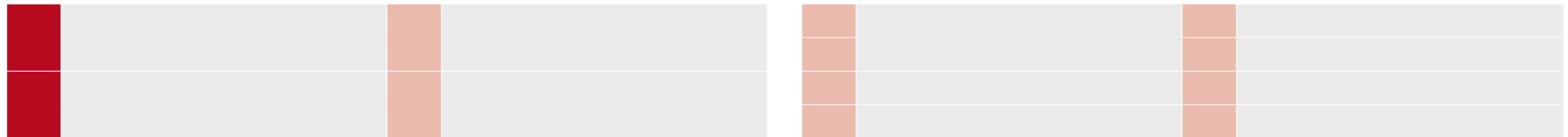
CMV 60-215

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Dimensions
upon request

Dimensions
upon request

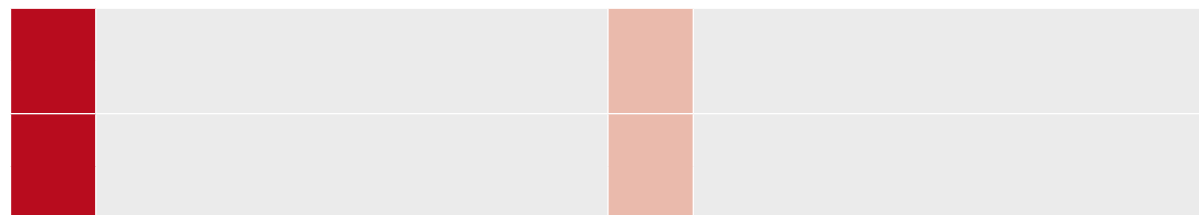


In the following you will find the technical specifications of the work ports. They are clustered according to the related mounting flange and nominal size. In the section [Model Code & Availability], you can then check the availability of the work ports in combination with additional functions integrated in the portplate housing. So please have a look at model-code [item 10. Port Plate housing] and compile your desired configuration.

CMV 60-215

Dimensions
upon request

Dimensions
upon request



In the following you will find the technical specifications of the flushing function. They are clustered according to the related mounting flange and nominal size. First get an overview of the table data showing pressure and flow data of this function. Beyond that you will find the dimensions of the related components in combination with each mounting flange and nominal size. In the section [Model Code & Availability], you can then check the availability of the flushing function in combination with additional functions integrated in the port plate housing. So please have a look at modelcode [item 10. Port Plate housing] and compile your desired configuration.

The flushing function is used in closed circuit applications. Its primary function is to remove heat from the hydraulic circuit by flushing the housing. It also ensures the minimum charge pressure. In order to achieve this, the pressure fluid is discharged from the respective low-pressure side into the motor housing. Along with the leakage, this is discharged into the tank. The extracted pressure fluid is replaced with cooled pressure fluid by charge pump. The flushing function is mounted on the port plate housing.

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Nominal size

[illegible][illegible]

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In the following you will find the technical specifications of the flushing function. They are clustered according to the related mounting flange and nominal size. First get an overview of the table data showing pressure and flow data of this function. Beyond that you will find the dimensions of the related components in combination with each mounting flange and nominal size. In the section [Model Code & Availability], you can then check the availability of the flushing function in combination with additional functions integrated in the port plate housing. So please have a look at modelcode [item 10. Port Plate housing] and compile your desired configuration.

Dimensions - Side view	
MAX NO	MAX FL
Dimensions upon request	Dimensions upon request

MAX NO	Examble configuration with control considering default position V_{gmax} . Flushing function is not provided.		
MAX FL	Examble configuration with control considering default position V_{gmax} . Flushing function is provided.		



Dimensions - Side view	
MIN NO	MIN FL
Dimensions upon request	Dimensions upon request

MAX NO	Examble configuration with control considering default position V_{gmin} . Flushing function is not provided.		
MAX FL	Examble configuration with control considering default position V_{gmin} . Flushing function is provided.		

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In the following you will find the technical specifications of the flushing function. They are clustered according to the related mounting flange and nominal size. First get an overview of the table data showing pressure and flow data of this function. Beyond that you will find the dimensions of the related components in combination with each mounting flange and nominal size. In the section [Model Code & Availability], you can then check the availability of the flushing function in combination with additional functions integrated in the port plate housing. So please have a look at modelcode [item 10. Port Plate housing] and compile your desired configuration.

Dimensions - Side view	
<div>MAX NO</div> <div>Dimensions upon request</div>	<div>MAX FL</div> <div>Dimensions upon request</div>

MAX NO	Examble configuration with control considering default position V_{gmax} . Flushing function is not provided.		
MAX FL	Examble configuration with control considering default position V_{gmax} . Flushing function is provided.		



Dimensions - Side view	
<div>MIN NO</div> <div>Dimensions upon request</div>	<div>MIN FL</div> <div>Dimensions upon request</div>

MAX NO	Examble configuration with control considering default position V_{gmin} . Flushing function is not provided.		
MAX FL	Examble configuration with control considering default position V_{gmin} . Flushing function is provided.		

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In the following you will find the technical specifications of the flushing function. They are clustered according to the related mounting flange and nominal size. First get an overview of the table data showing pressure and flow data of this function. Beyond that you will find the dimensions of the related components in combination with each mounting flange and nominal size. In the section [Model Code & Availability], you can then check the availability of the flushing function in combination with additional functions integrated in the port plate housing. So please have a look at modelcode [item 10. Port Plate housing] and compile your desired configuration.

Dimensions - Side view	
MAX NO	MAX FL
Dimensions upon request	Dimensions upon request

MAX NO	Examlle configuration with control considering default position Vg _{max} . Flushing function is not provided.		
MAX FL	Examlle configuration with control considering default position Vg _{max} . Flushing function is provided.		



Dimensions - Side view	
MIN NO	MIN FL
Dimensions upon request	Dimensions upon request

MAX NO	Examlle configuration with control considering default position Vg _{min} . Flushing function is not provided.		
MAX FL	Examlle configuration with control considering default position Vg _{min} . Flushing function is provided.		

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In the following you will find the technical specifications of the flushing function. They are clustered according to the related mounting flange and nominal size. First get an overview of the table data showing pressure and flow data of this function. Beyond that you will find the dimensions of the related components in combination with each mounting flange and nominal size. In the section [Model Code & Availability], you can then check the availability of the flushing function in combination with additional functions integrated in the port plate housing. So please have a look at modelcode [item 10. Port Plate housing] and compile your desired configuration.

Dimensions - Side view	
MAX NO	MAX FL
Dimensions upon request	Dimensions upon request

MAX NO	Examble configuration with control considering default position Vg _{max} . Flushing function is not provided.		
MAX FL	Examble configuration with control considering default position Vg _{max} . Flushing function is provided.		



Dimensions - Side view	
MIN NO	MIN FL
Dimensions upon request	Dimensions upon request

MAX NO	Examble configuration with control considering default position Vg _{min} . Flushing function is not provided.		
MAX FL	Examble configuration with control considering default position Vg _{min} . Flushing function is provided.		

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In the following you will find the technical specifications of the flushing function. They are clustered according to the related mounting flange and nominal size. First get an overview of the table data showing pressure and flow data of this function. Beyond that you will find the dimensions of the related components in combination with each mounting flange and nominal size. In the section [Model Code & Availability], you can then check the availability of the flushing function in combination with additional functions integrated in the port plate housing. So please have a look at modelcode [item 10. Port Plate housing] and compile your desired configuration.

Dimensions - Side view	
MAX NO	MAX FL
Dimensions upon request	Dimensions upon request

MAX NO	Examble configuration with control considering default position Vg _{max} . Flushing function is not provided.		
MAX FL	Examble configuration with control considering default position Vg _{max} . Flushing function is provided.		



Dimensions - Side view	
MIN NO	MIN FL
Dimensions upon request	Dimensions upon request

MAX NO	Examble configuration with control considering default position Vg _{min} . Flushing function is not provided.		
MAX FL	Examble configuration with control considering default position Vg _{min} . Flushing function is provided.		

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In the following you will find the technical specifications of the flushing function. They are clustered according to the related mounting flange and nominal size. First get an overview of the table data showing pressure and flow data of this function. Beyond that you will find the dimensions of the related components in combination with each mounting flange and nominal size. In the section [Model Code & Availability], you can then check the availability of the flushing function in combination with additional functions integrated in the port plate housing. So please have a look at modelcode [item 10. Port Plate housing] and compile your desired configuration.

Dimensions - Side view	
<div>MAX NO</div> <div>Dimensions upon request</div>	<div>MAX FL</div> <div>Dimensions upon request</div>

MAX NO	Examble configuration with control considering default position V_{gmax} . Flushing function is not provided.		
MAX FL	Examble configuration with control considering default position V_{gmax} . Flushing function is provided.		



Dimensions - Side view	
<div>MIN NO</div> <div>Dimensions upon request</div>	<div>MIN FL</div> <div>Dimensions upon request</div>

MAX NO	Examble configuration with control considering default position V_{gmin} . Flushing function is not provided.		
MAX FL	Examble configuration with control considering default position V_{gmin} . Flushing function is provided.		

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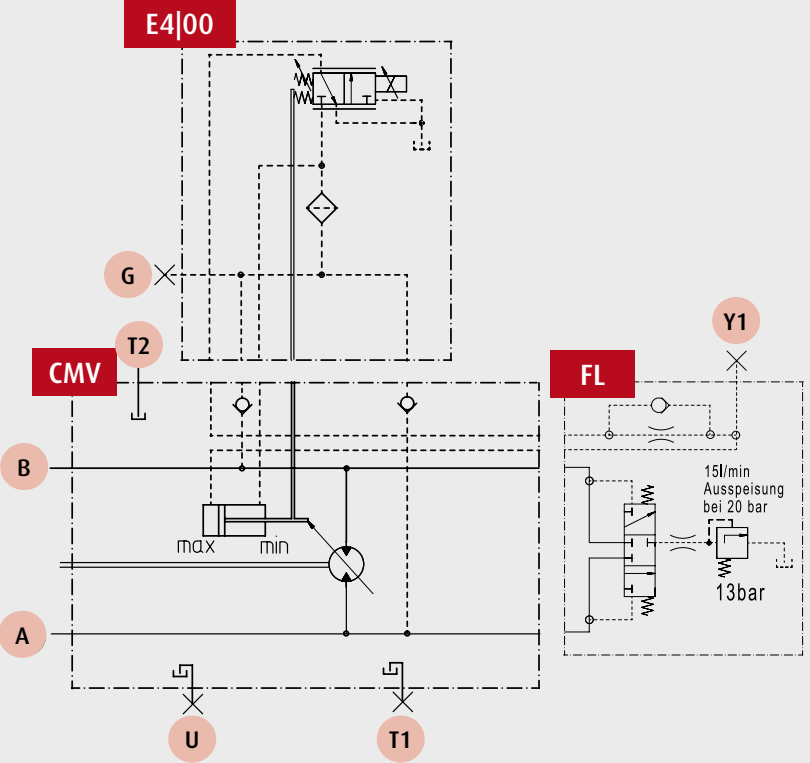
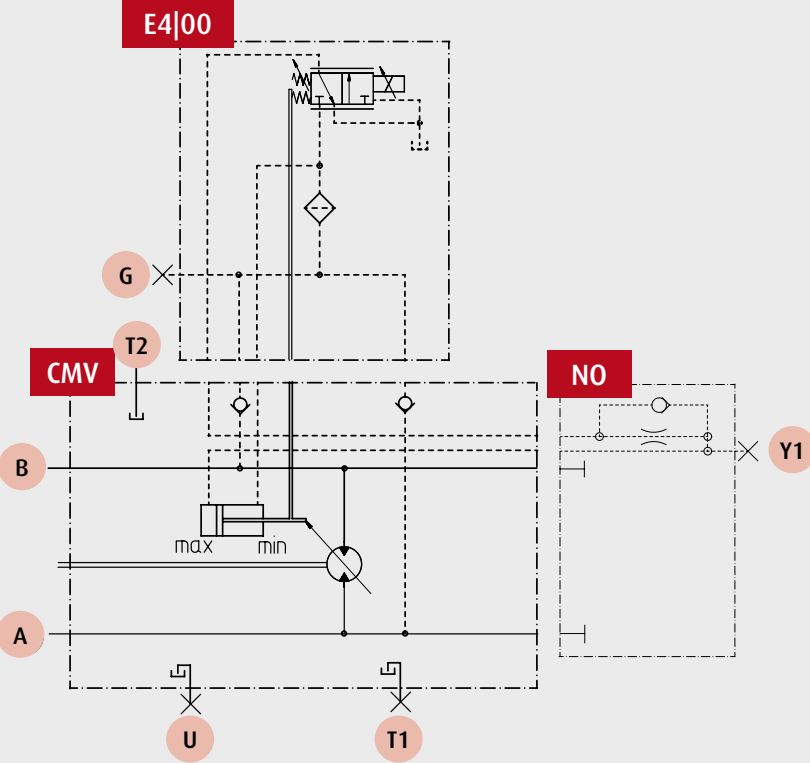
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In the following you will find the technical specifications of the flushing function. They are clustered according to the related mounting flange and nominal size. First get an overview of the table data showing pressure and flow data of this function. Beyond that you will find the dimensions of the related components in combination with each mounting flange and nominal size. In the section [Model Code & Availability], you can then check the availability of the flushing function in combination with additional functions integrated in the port plate housing. So please have a look at modelcode [item 10. Port Plate housing] and compile your desired configuration.

Hydraulic Diagram (Configuration Examples)



CMV	Basic motor (without Controls/Functions/Options)	FL	Cover that provides flushing function	AX	Pressure equalization port	G	Ext. control pressure supply
E4 00	Displ. Contrl. E4 + Press. Contrl. 00	A	High pressure work port	BX		U	Bearing flush port
NO	Blind cover that closes the interface of the portplate and does not provide flushing function	B	High pressure work port	T1		Y1	Measuring port
				T2	Drain / vent port		

The flushing function is used in closed circuit applications. Its primary function is to remove heat from the hydraulic circuit by flushing the housing. It also ensures the minimum charge pressure. In order to achieve this, the pressure fluid is discharged from the respective low-pressure side into the motor housing. Along with the leakage, this is discharged into the tank. The extracted pressure fluid is replaced with cooled pressure fluid by charge pump. The flushing function is mounted on the port plate housing.

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[illegible]

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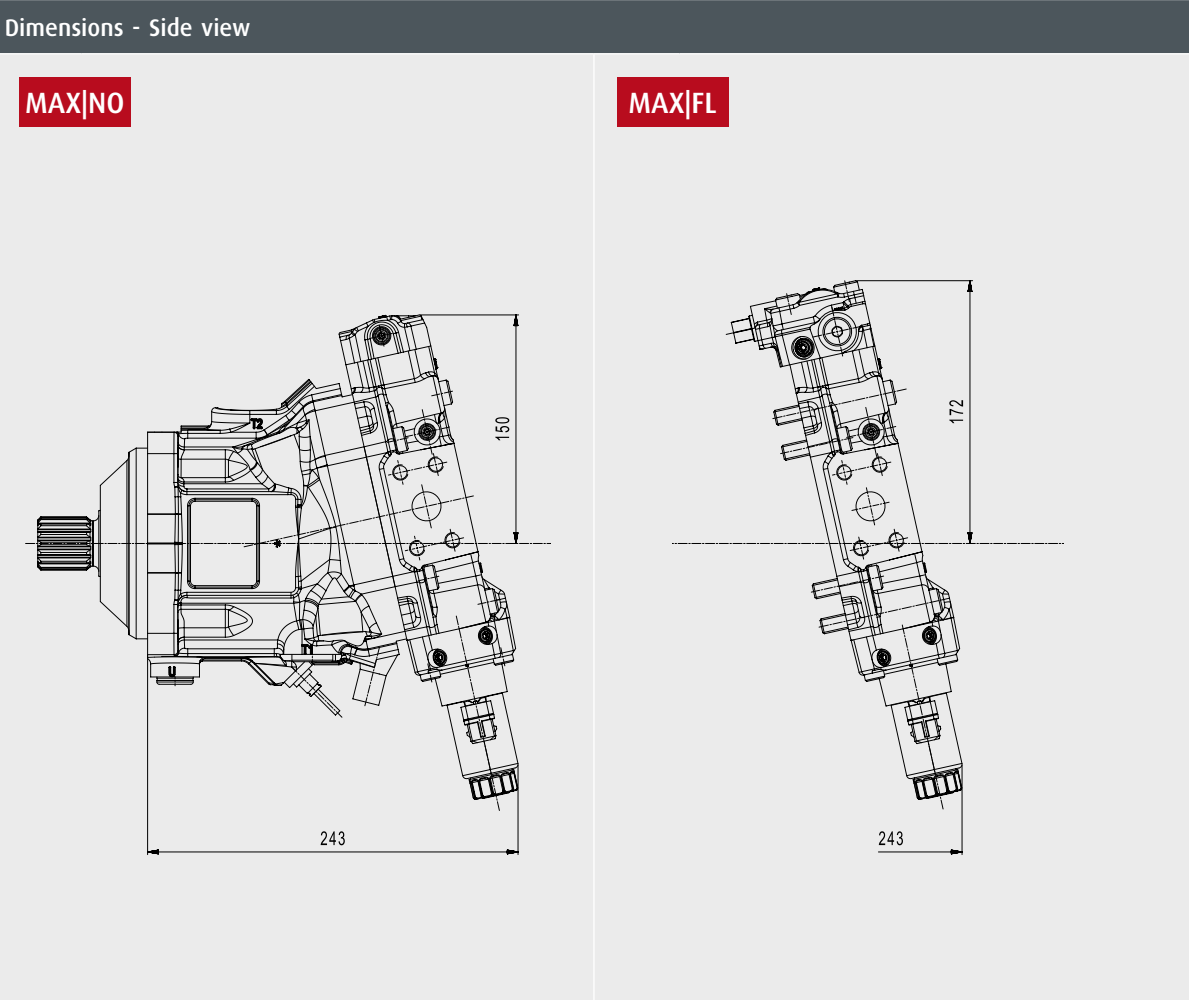
CMV 60-215

In combination with PLUG-IN, SIM. TO ISO 3019-2

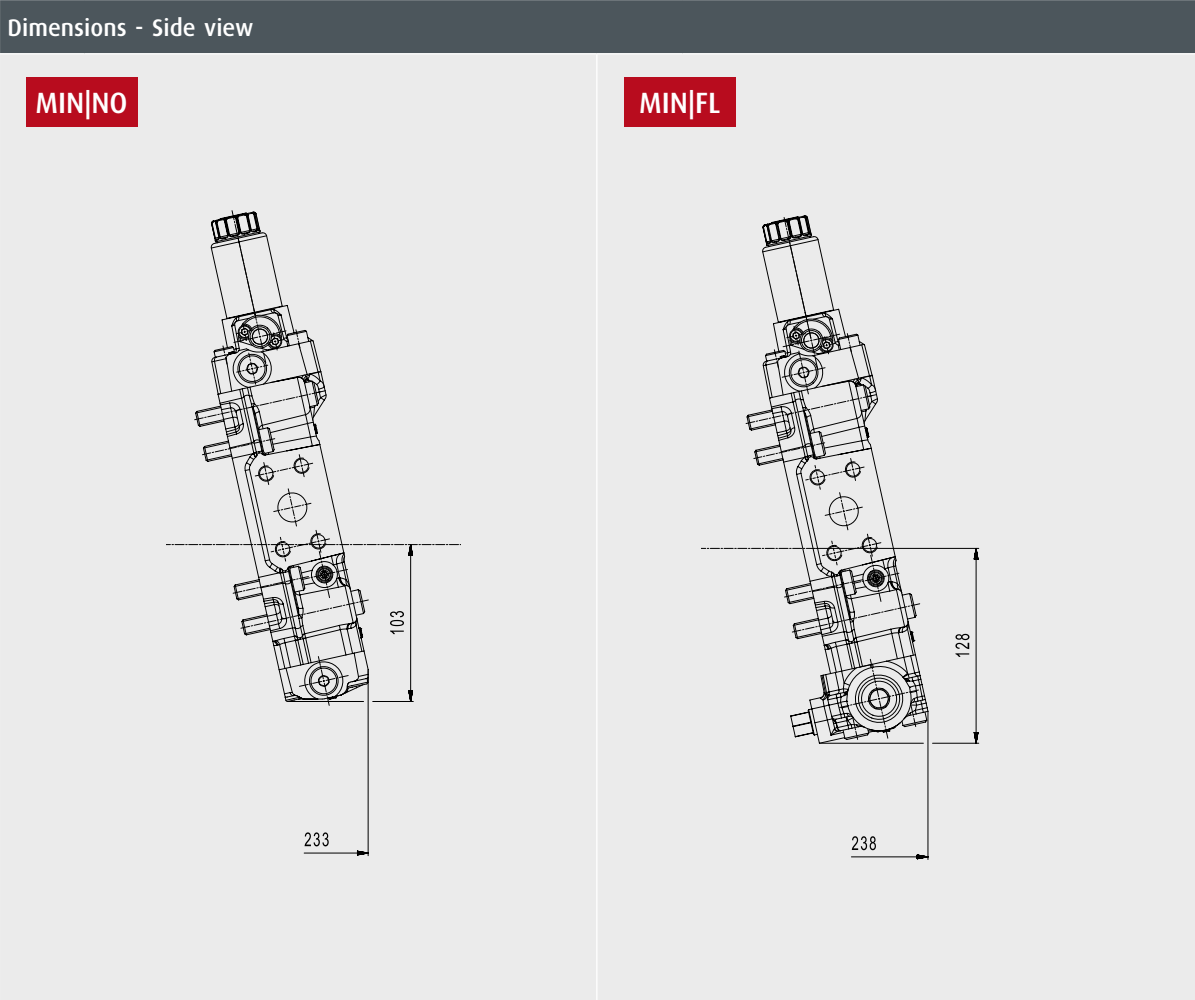
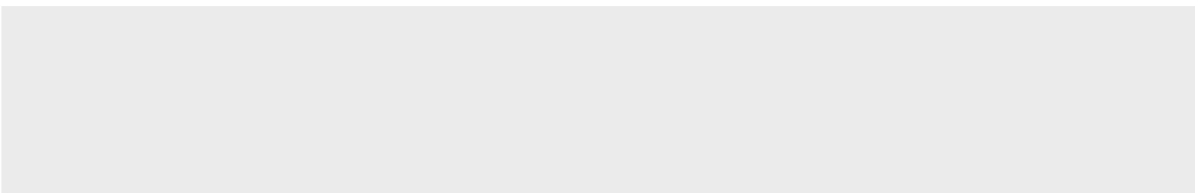
CMV 60-215



In the following you will find the technical specifications of the flushing function. They are clustered according to the related mounting flange and nominal size. First get an overview of the table data showing pressure and flow data of this function. Beyond that you will find the dimensions of the related components in combination with each mounting flange and nominal size. In the section [Model Code & Availability], you can then check the availability of the flushing function in combination with additional functions integrated in the port plate housing. So please have a look at modelcode [item 10. Port Plate housing] and compile your desired configuration.



MAX NO	Examlle configuration with control considering default position Vgmax. Flushing function is not provided.		
MAX FL	Examlle configuration with control considering default position Vgmax. Flushing function is provided.		



MAX NO	Examlle configuration with control considering default position Vgmin. Flushing function is not provided.		
MAX FL	Examlle configuration with control considering default position Vgmin. Flushing function is provided.		

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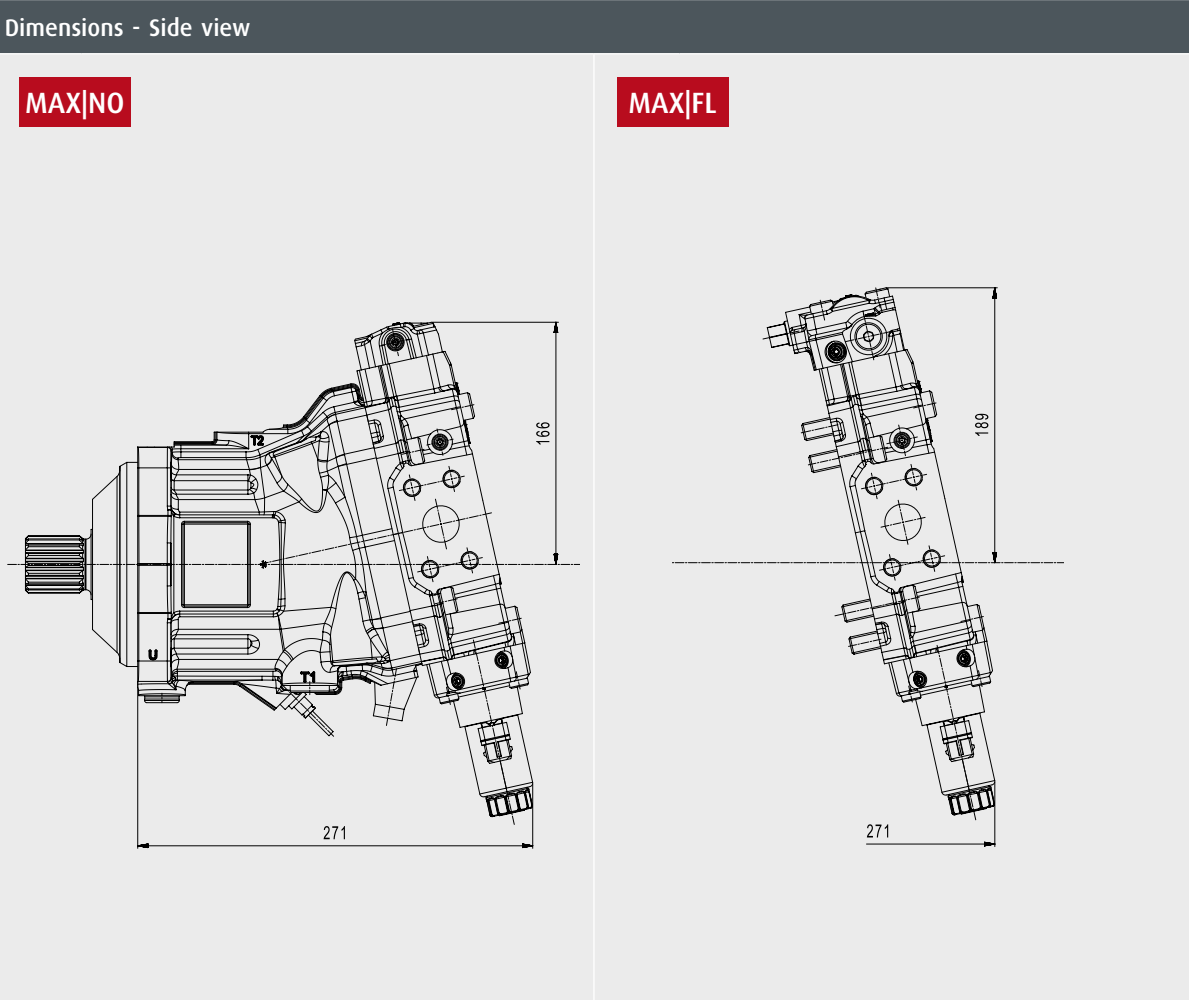
CMV 60-215

In combination with
PLUG-IN, SIM. TO ISO 3019-2

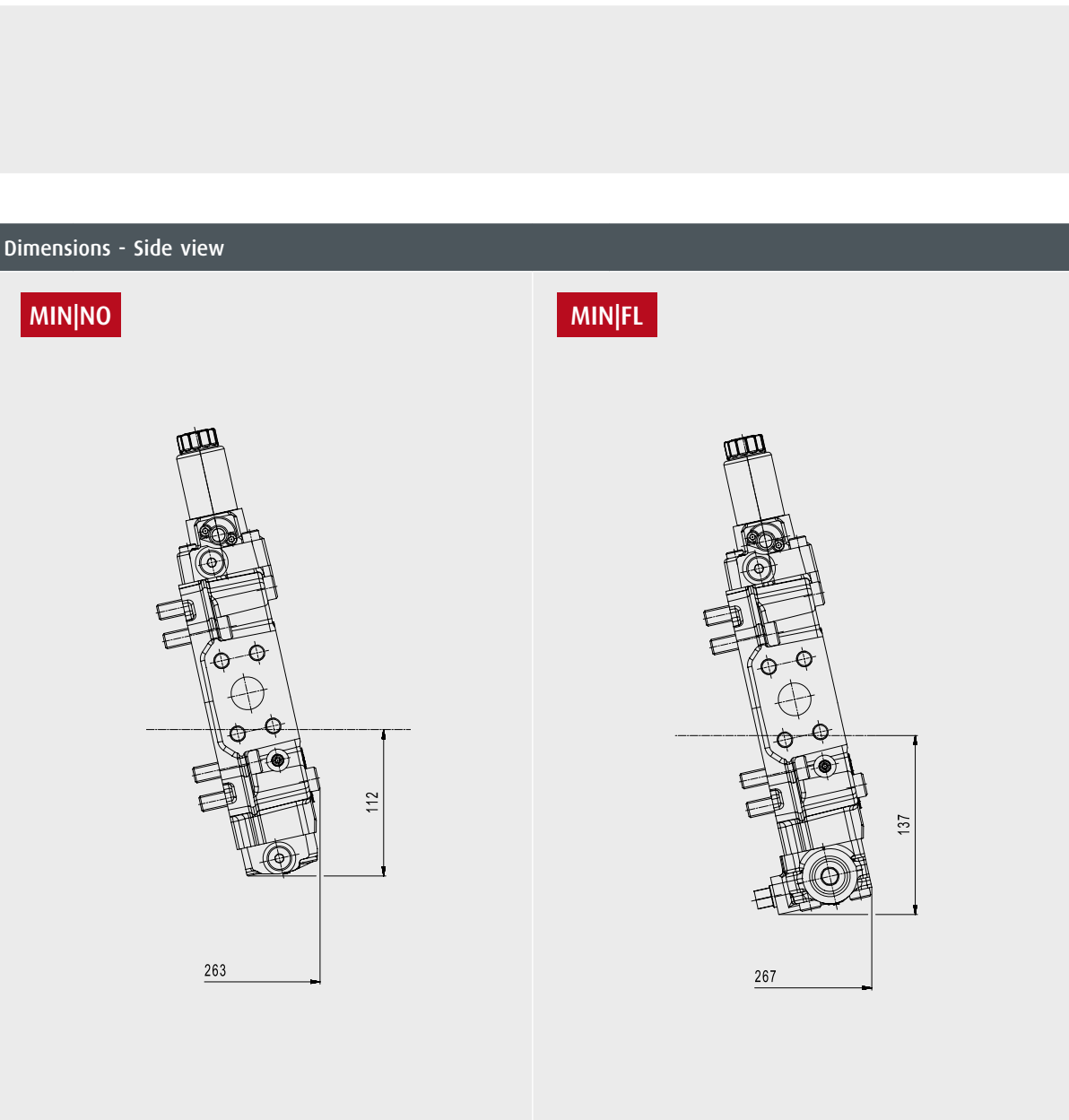
CMV 60-215



In the following you will find the technical specifications of the flushing function. They are clustered according to the related mounting flange and nominal size. First get an overview of the table data showing pressure and flow data of this function. Beyond that you will find the dimensions of the related components in combination with each mounting flange and nominal size. In the section [Model Code & Availability], you can then check the availability of the flushing function in combination with additional functions integrated in the port plate housing. So please have a look at modelcode [item 10. Port Plate housing] and compile your desired configuration.



MAX NO	Examlle configuration with control considering default position V_{gmax} . Flushing function is not provided.		
MAX FL	Examlle configuration with control considering default position V_{gmax} . Flushing function is provided.		



MAX NO	Examlle configuration with control considering default position V_{gmin} . Flushing function is not provided.		
MAX FL	Examlle configuration with control considering default position V_{gmin} . Flushing function is provided.		

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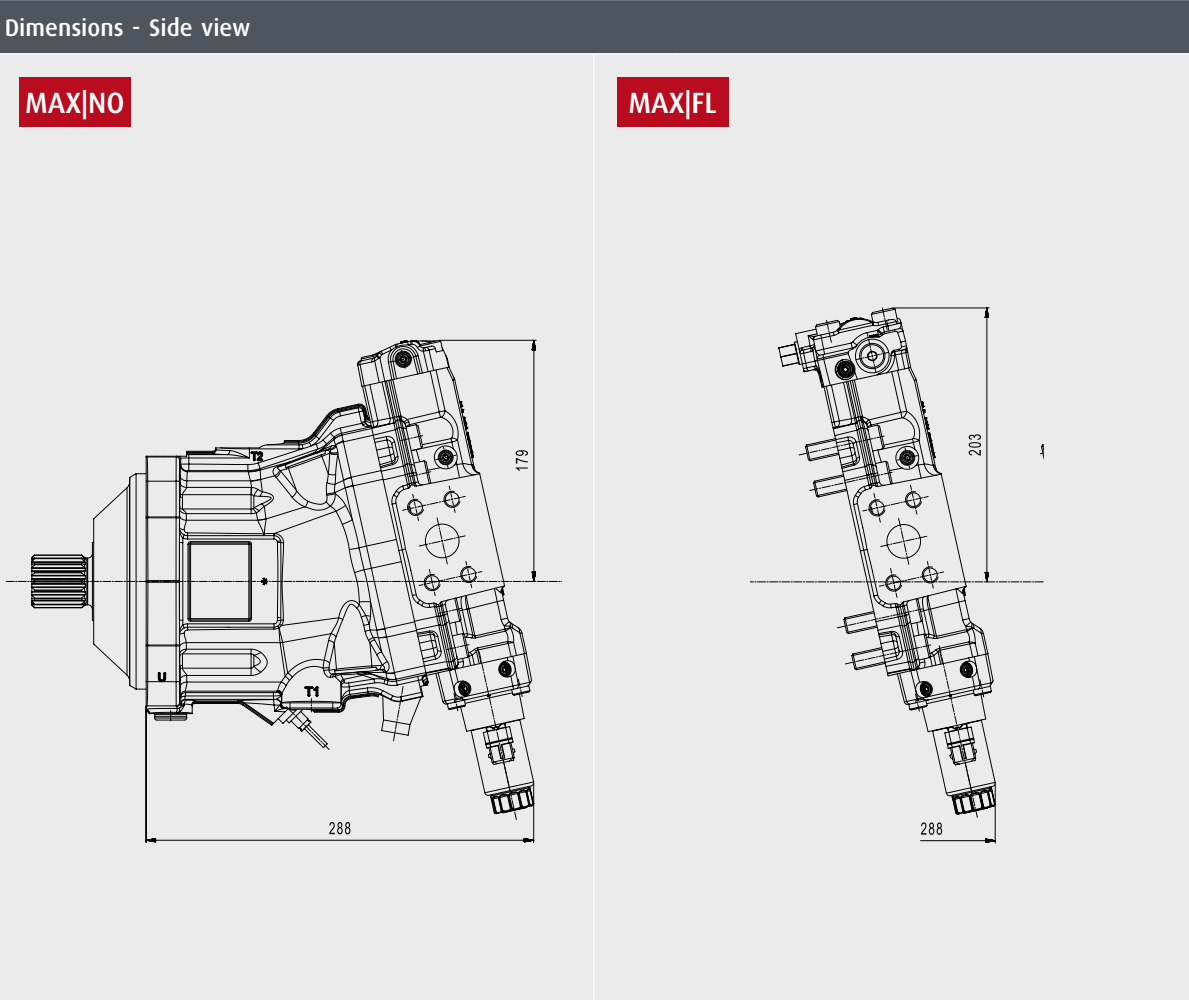
CMV 60-215

In combination with
PLUG-IN, SIM. TO ISO 3019-2

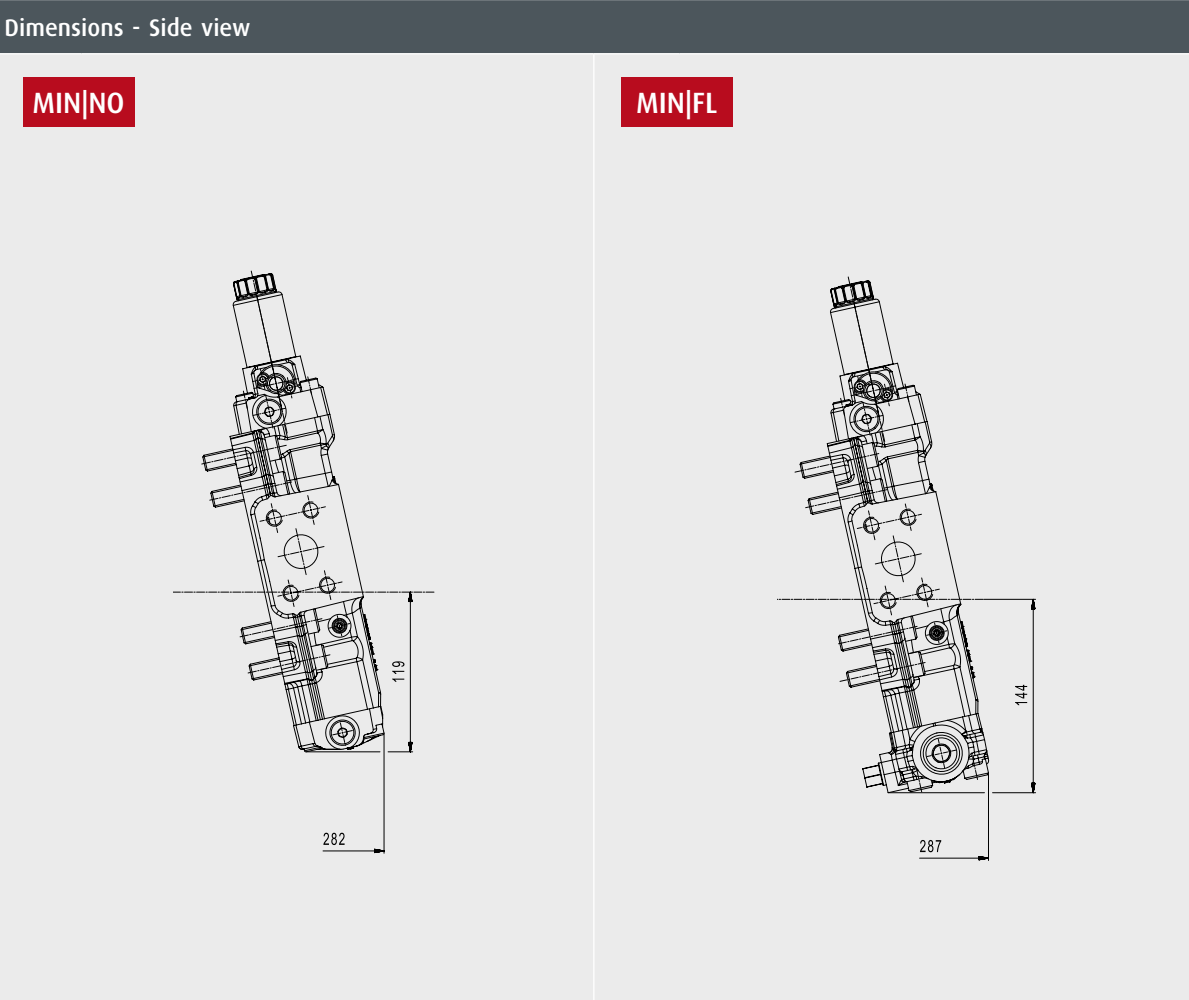
CMV 60-215



In the following you will find the technical specifications of the flushing function. They are clustered according to the related mounting flange and nominal size. First get an overview of the table data showing pressure and flow data of this function. Beyond that you will find the dimensions of the related components in combination with each mounting flange and nominal size. In the section [Model Code & Availability], you can then check the availability of the flushing function in combination with additional functions integrated in the port plate housing. So please have a look at modelcode [item 10. Port Plate housing] and compile your desired configuration.



MAX NO	Examlle configuration with control considering default position Vgmax. Flushing function is not provided.		
MAX FL	Examlle configuration with control considering default position Vgmax. Flushing function is provided.		



MAX NO	Examlle configuration with control considering default position Vgmin. Flushing function is not provided.		
MAX FL	Examlle configuration with control considering default position Vgmin. Flushing function is provided.		

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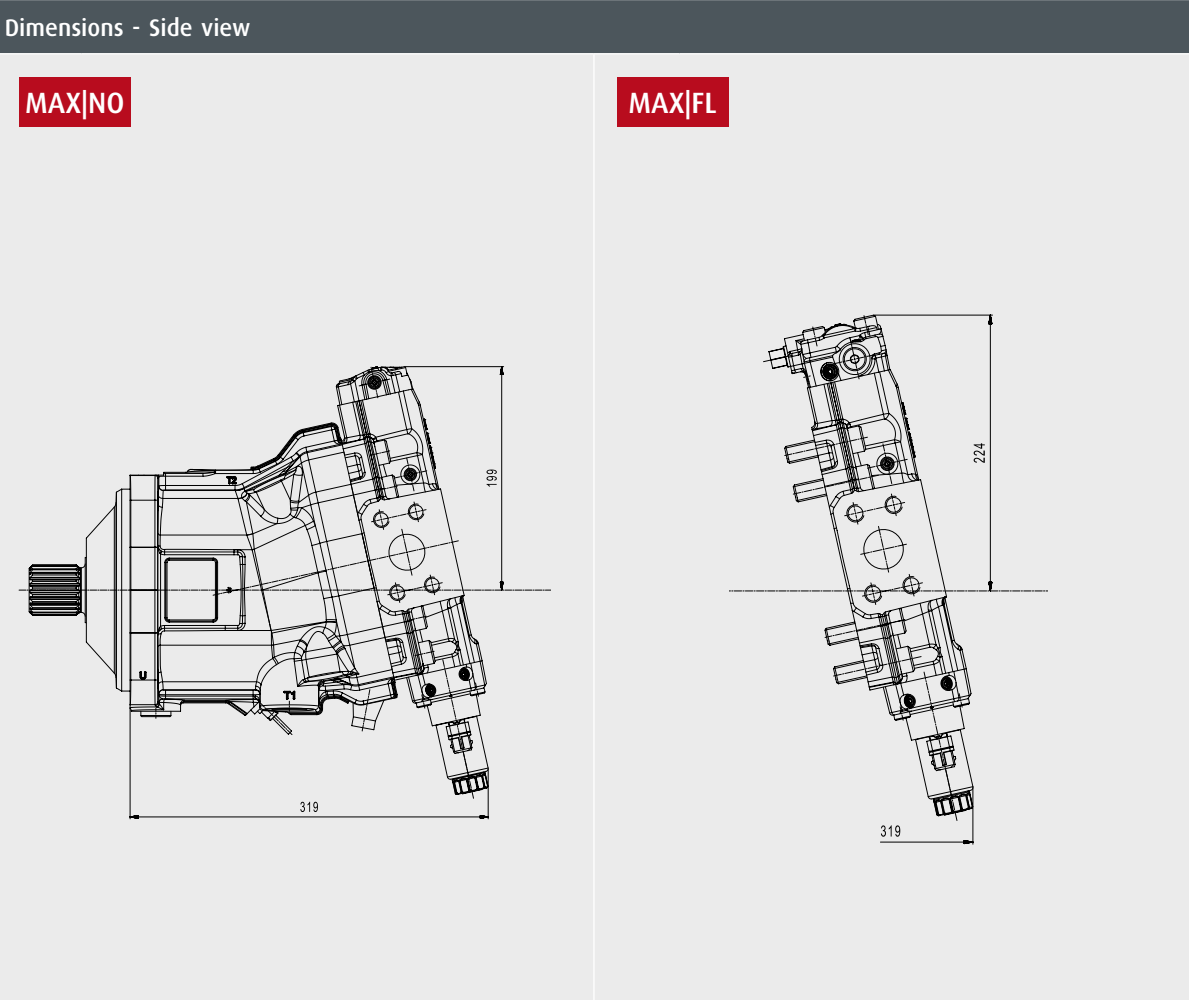
CMV 60-215

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PLUG-IN, SIM. TO ISO 3019-2

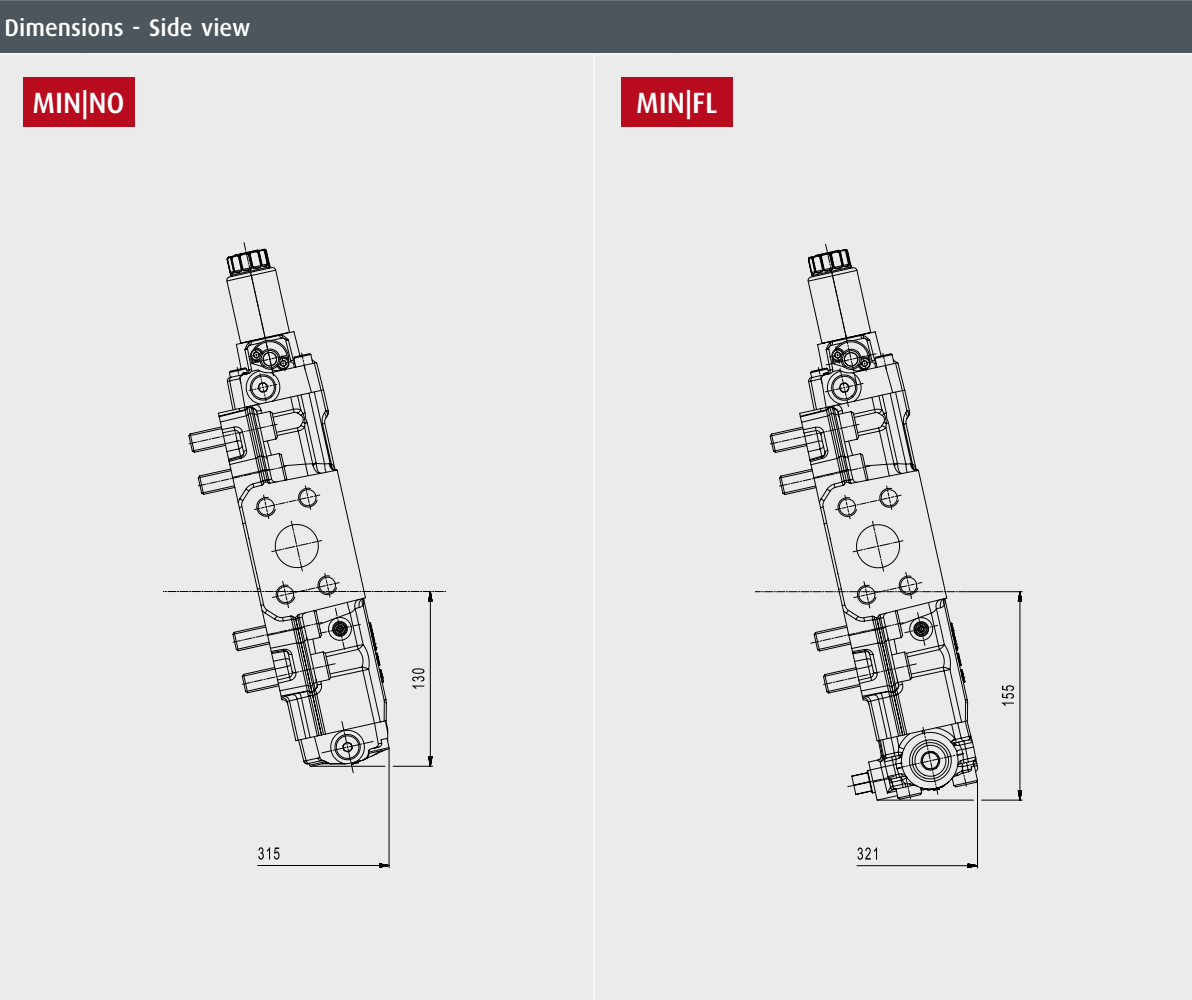
CMV 60-215



In the following you will find the technical specifications of the flushing function. They are clustered according to the related mounting flange and nominal size. First get an overview of the table data showing pressure and flow data of this function. Beyond that you will find the dimensions of the related components in combination with each mounting flange and nominal size. In the section [Model Code & Availability], you can then check the availability of the flushing function in combination with additional functions integrated in the port plate housing. So please have a look at modelcode [item 10. Port Plate housing] and compile your desired configuration.



MAX NO	Examlle configuration with control considering default position Vgmax. Flushing function is not provided.		
MAX FL	Examlle configuration with control considering default position Vgmax. Flushing function is provided.		



MAX NO	Examlle configuration with control considering default position Vgmin. Flushing function is not provided.		
MAX FL	Examlle configuration with control considering default position Vgmin. Flushing function is provided.		

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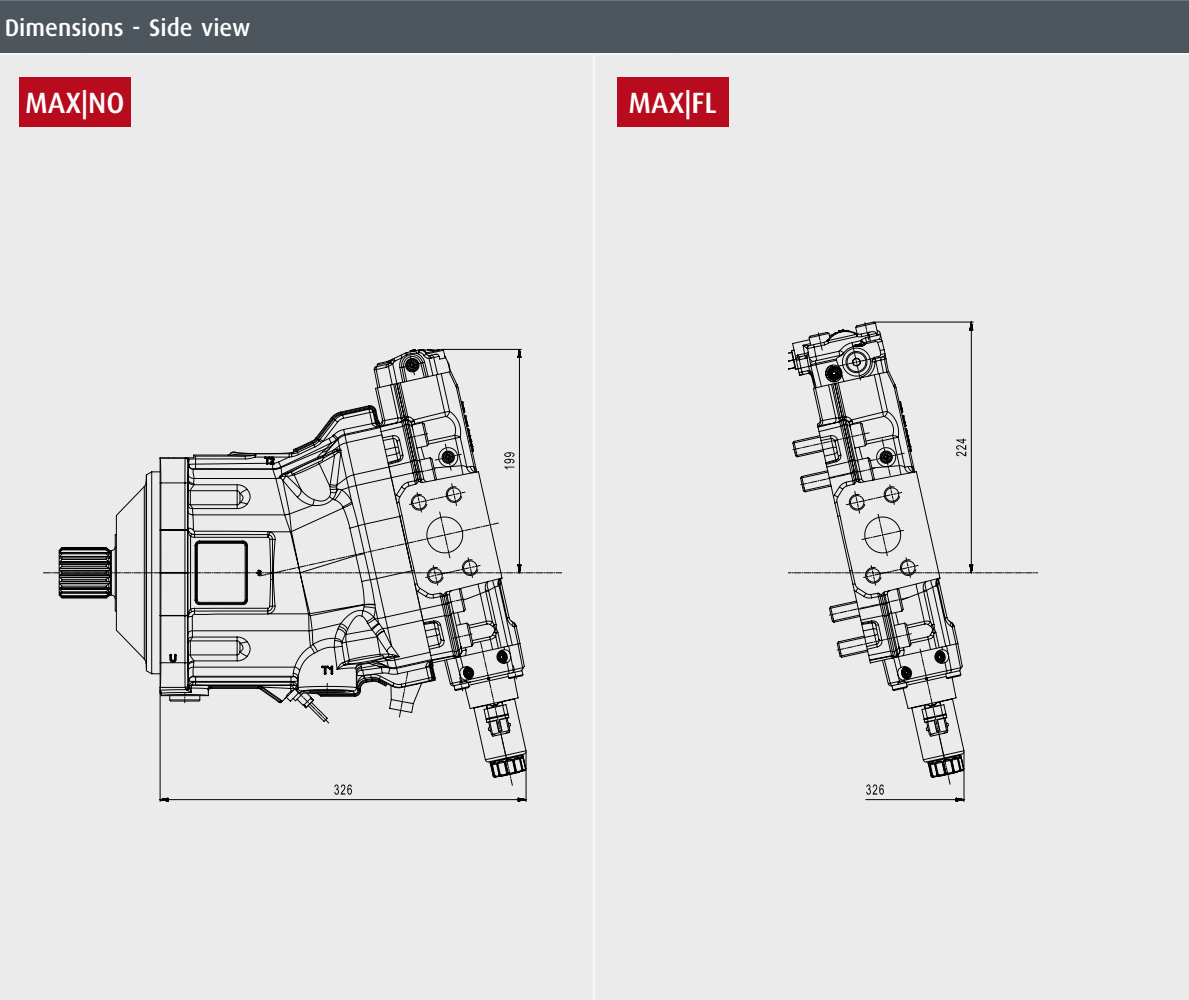
CMV 60-215

In combination with PLUG-IN, SIM. TO ISO 3019-2

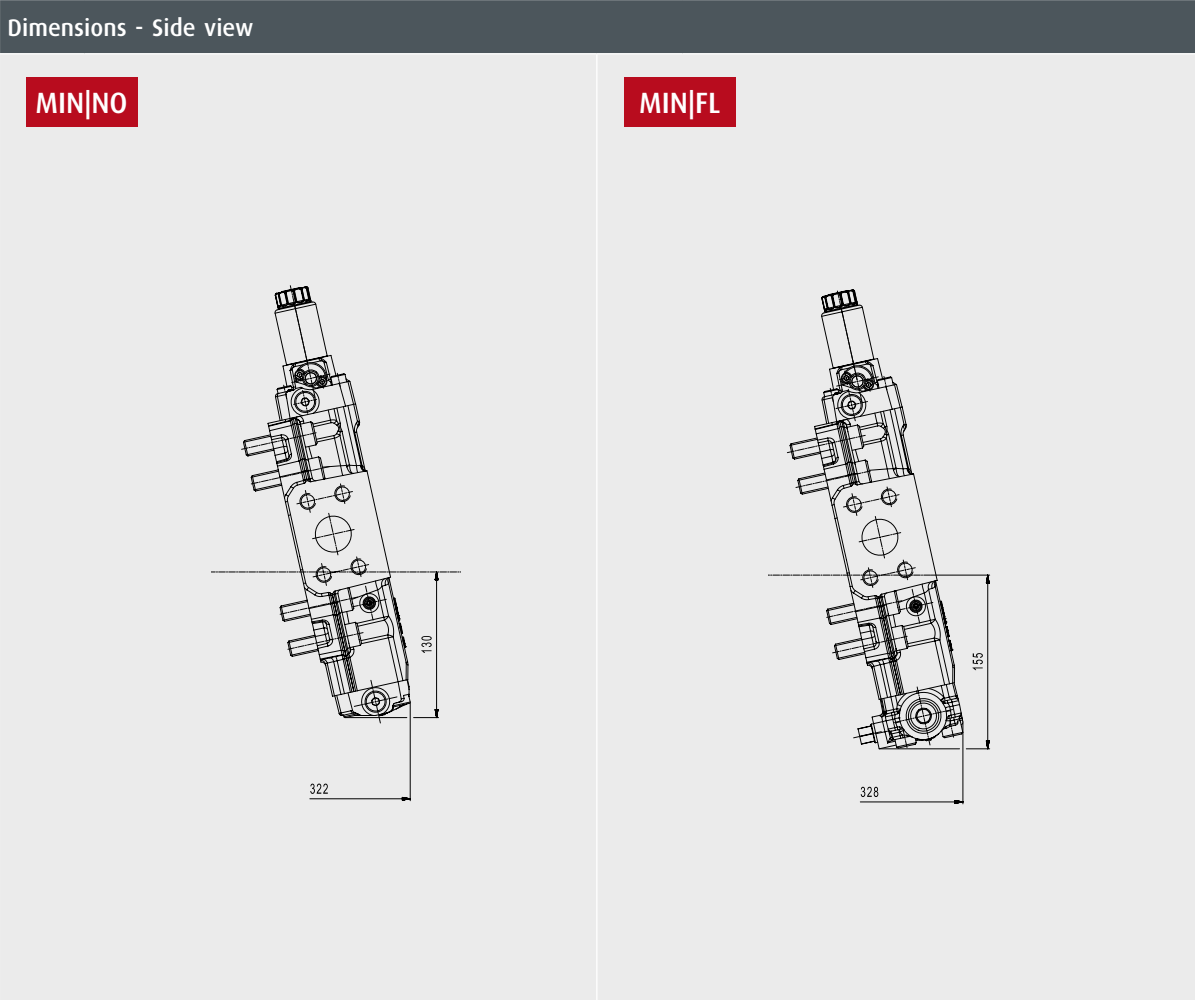
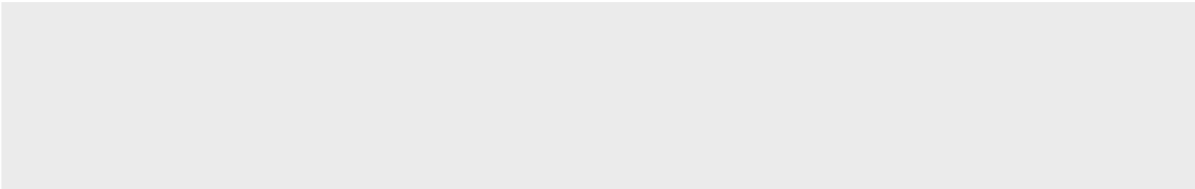
CMV 60-215



In the following you will find the technical specifications of the flushing function. They are clustered according to the related mounting flange and nominal size. First get an overview of the table data showing pressure and flow data of this function. Beyond that you will find the dimensions of the related components in combination with each mounting flange and nominal size. In the section [Model Code & Availability], you can then check the availability of the flushing function in combination with additional functions integrated in the port plate housing. So please have a look at modelcode [item 10. Port Plate housing] and compile your desired configuration.



MAX NO	Examlle configuration with control considering default position Vg _{max} . Flushing function is not provided.		
MAX FL	Examlle configuration with control considering default position Vg _{max} . Flushing function is provided.		



MAX NO	Examlle configuration with control considering default position Vg _{min} . Flushing function is not provided.		
MAX FL	Examlle configuration with control considering default position Vg _{min} . Flushing function is provided.		

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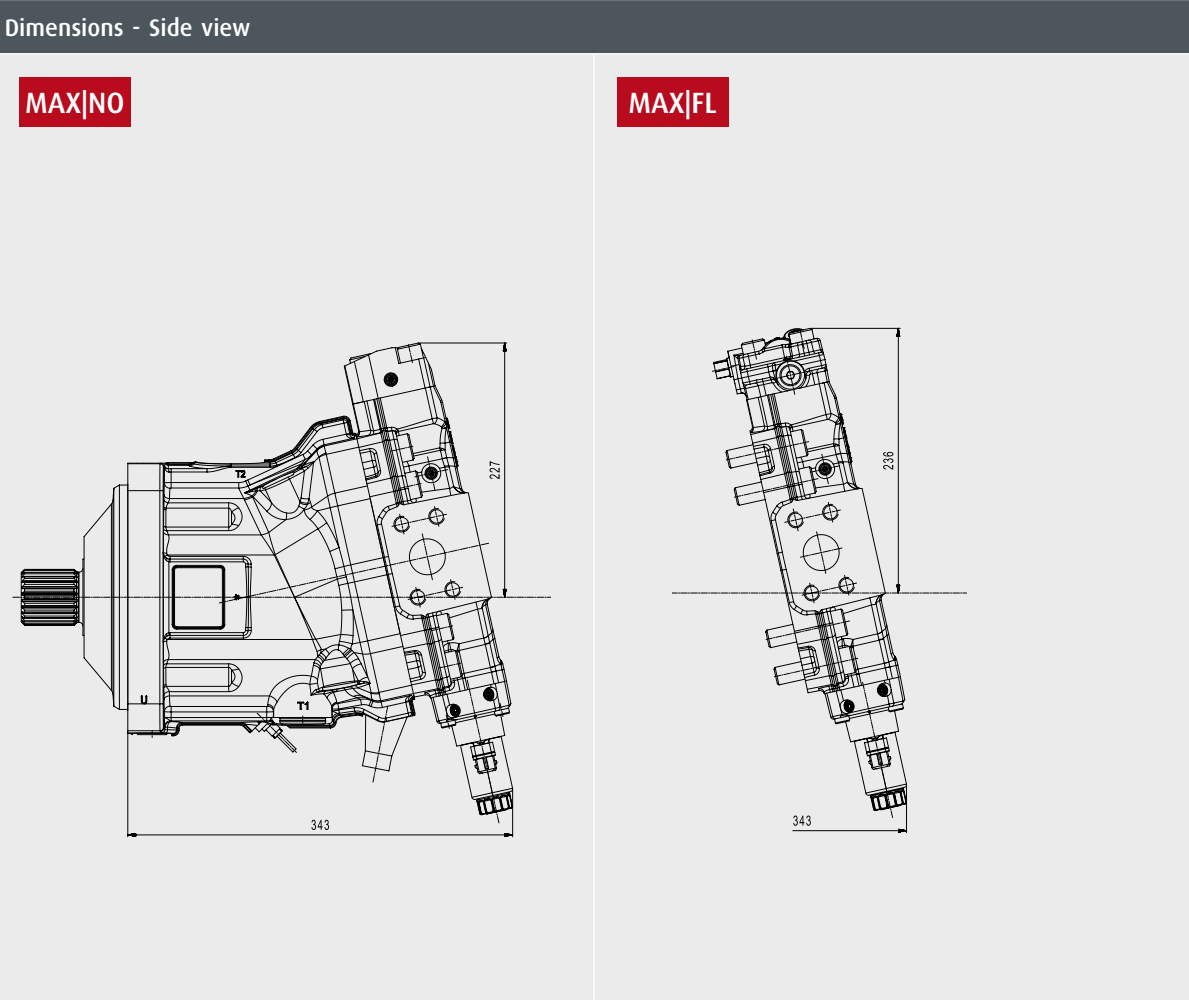
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In combination with PLUG-IN, SIM. TO ISO 3019-2

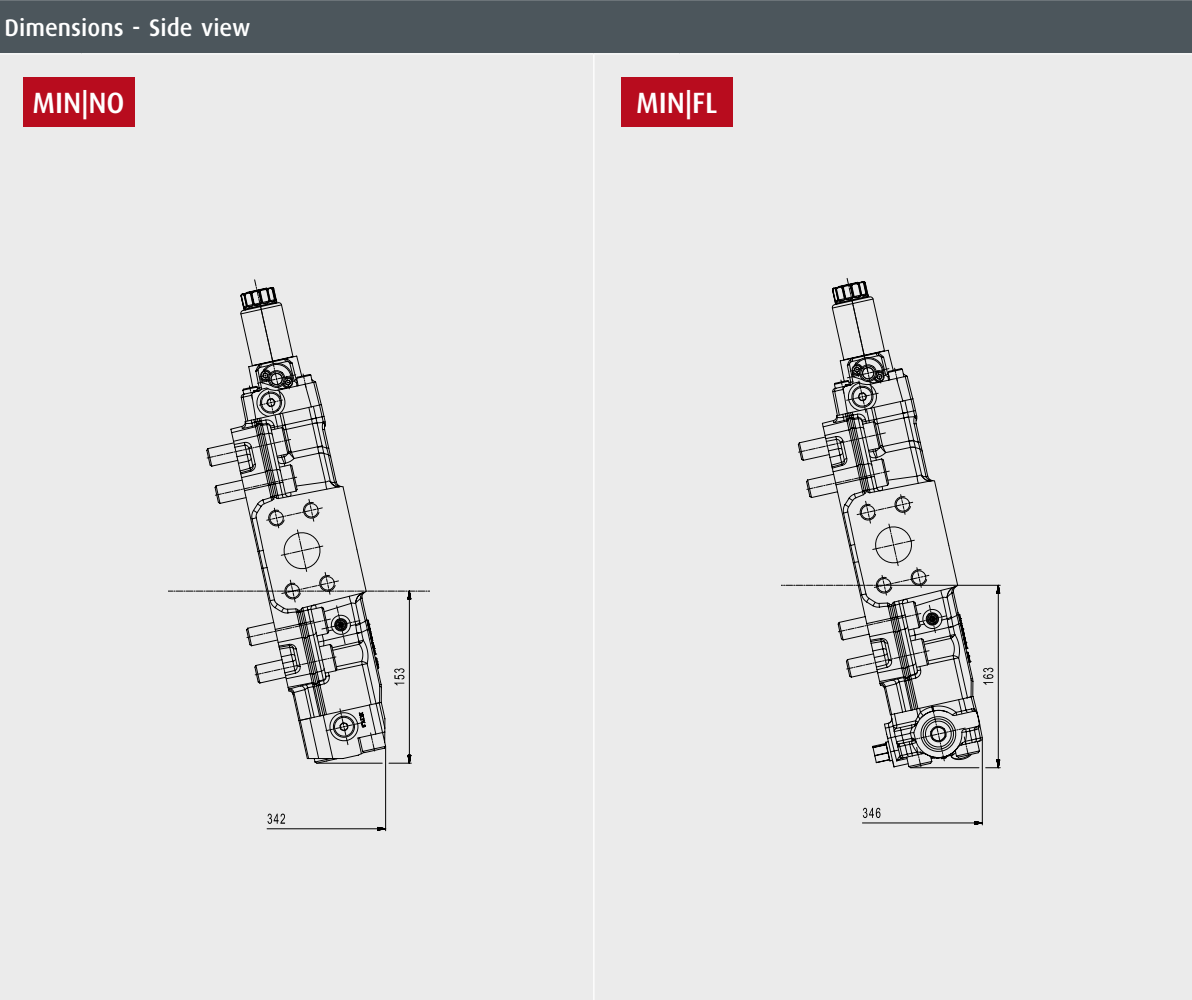
CMV 60-215



In the following you will find the technical specifications of the flushing function. They are clustered according to the related mounting flange and nominal size. First get an overview of the table data showing pressure and flow data of this function. Beyond that you will find the dimensions of the related components in combination with each mounting flange and nominal size. In the section [Model Code & Availability], you can then check the availability of the flushing function in combination with additional functions integrated in the port plate housing. So please have a look at modelcode [item 10. Port Plate housing] and compile your desired configuration.



MAX NO	Examlle configuration with control considering default position V_{gmax} . Flushing function is not provided.		
MAX FL	Examlle configuration with control considering default position V_{gmax} . Flushing function is provided.		



MAX NO	Examlle configuration with control considering default position V_{gmin} . Flushing function is not provided.		
MAX FL	Examlle configuration with control considering default position V_{gmin} . Flushing function is provided.		

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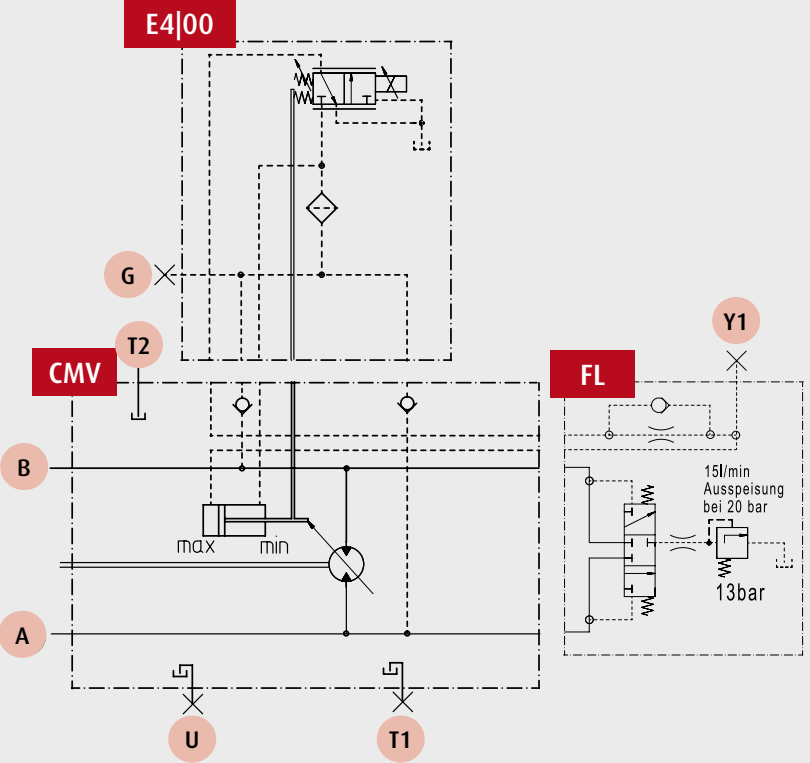
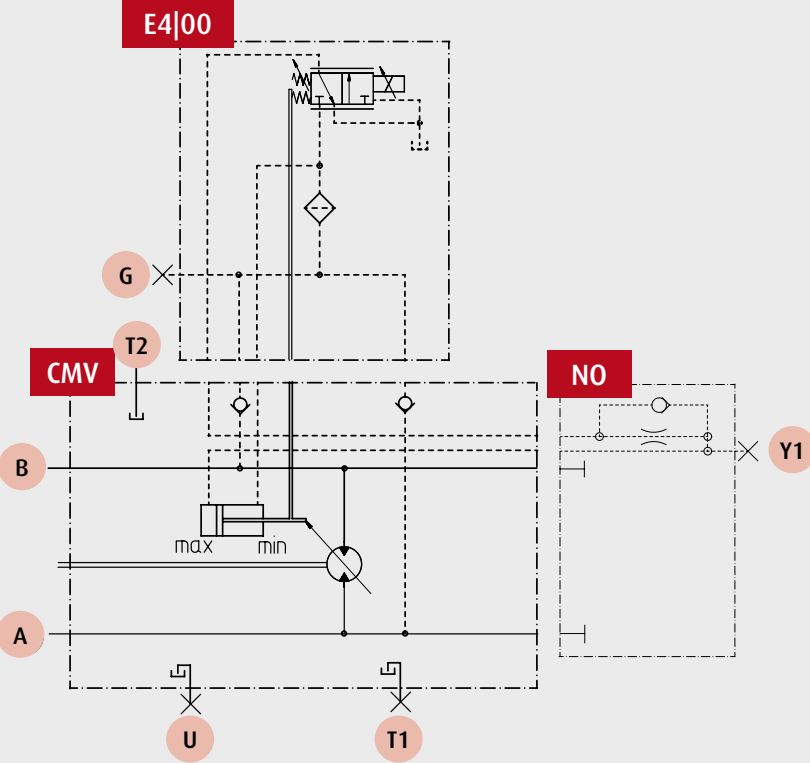
In combination with
ISO 3019-2 metric
CMV 60-215

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In the following you will find the technical specifications of the flushing function. They are clustered according to the related mounting flange and nominal size. First get an overview of the table data showing pressure and flow data of this function. Beyond that you will find the dimensions of the related components in combination with each mounting flange and nominal size. In the section [Model Code & Availability], you can then check the availability of the flushing function in combination with additional functions integrated in the port plate housing. So please have a look at modelcode [item 10. Port Plate housing] and compile your desired configuration.

Hydraulic Diagram (Configuration Examples)



CMV	Basic motor (without Controls/Functions/Options)	FL	Cover that provides flushing function	AX	Pressure equalization port	G	Ext. control pressure supply
E4 00	Displ. Contrl. E4 + Press. Contrl. 00	A	High pressure work port	BX		U	Bearing flush port
NO	Blind cover that closes the interface of the portplate and does not provide flushing function	B	High pressure work port	T1		Y1	Measuring port
				T2	Drain / vent port		

In the following you will find the technical specifications of the flushing function. They are clustered according to the related mounting flange and nominal size. First get an overview of the table data showing pressure and flow data of this function. Beyond that you will find the dimensions of the related components in combination with each mounting flange and nominal size. In the section [Model Code & Availability], you can then check the availability of the flushing function in combination with additional functions integrated in the port plate housing. So please have a look at modelcode [item 10. Port Plate housing] and compile your desired configuration.

The flushing function is used in closed circuit applications. Its primary function is to remove heat from the hydraulic circuit by flushing the housing. It also ensures the minimum charge pressure. In order to achieve this, the pressure fluid is discharged from the respective low-pressure side into the motor housing. Along with the leakage, this is discharged into the tank. The extracted pressure fluid is replaced with cooled pressure fluid by charge pump. The flushing function is mounted on the port plate housing.

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Specification

Nominal size

[illegible][illegible]

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In combination with
ISO 3019-1 / SAE J744

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ISO 3019-2 metric

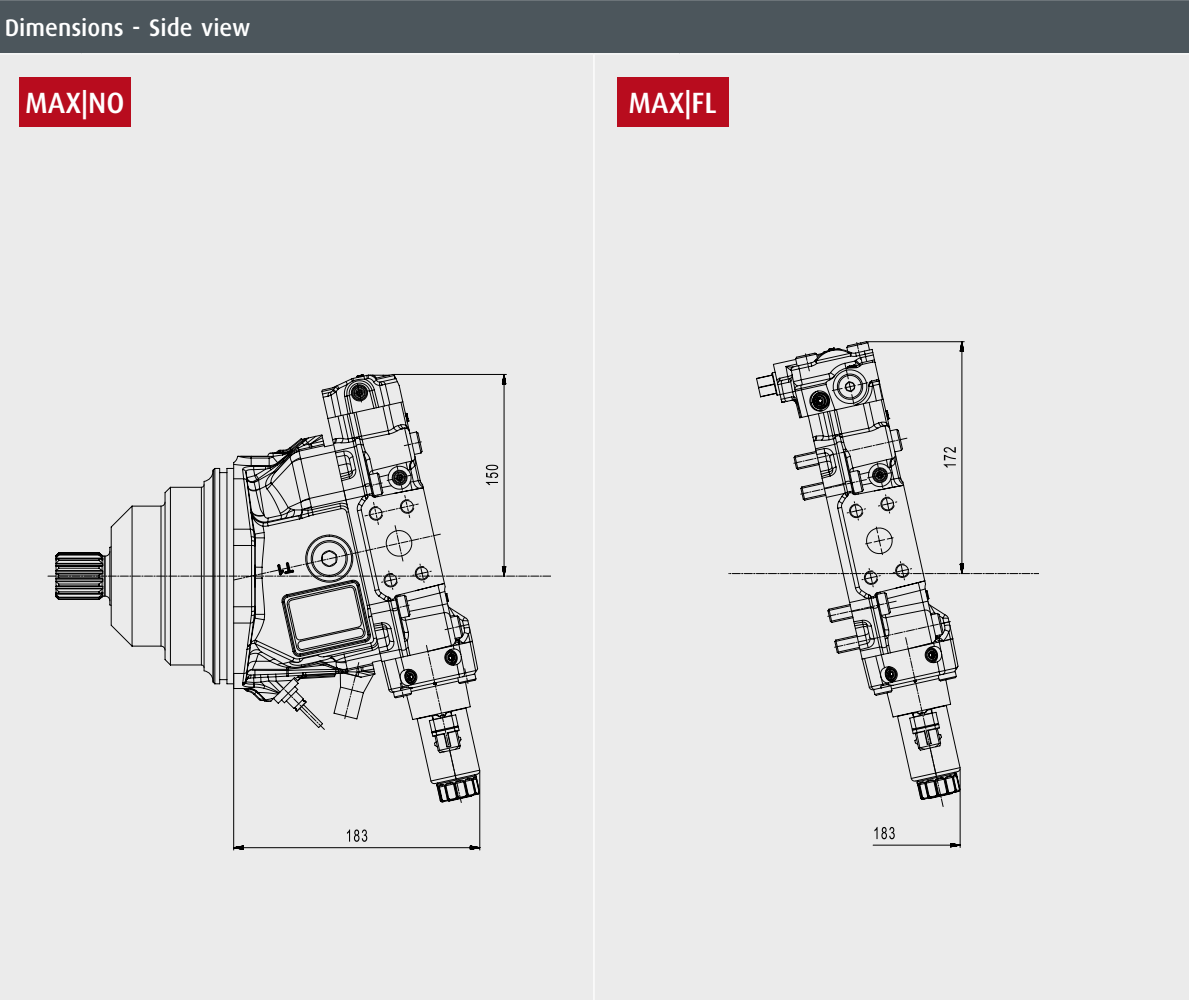
CMV 60-215

In combination with
PLUG-IN, SIM. TO ISO 3019-2

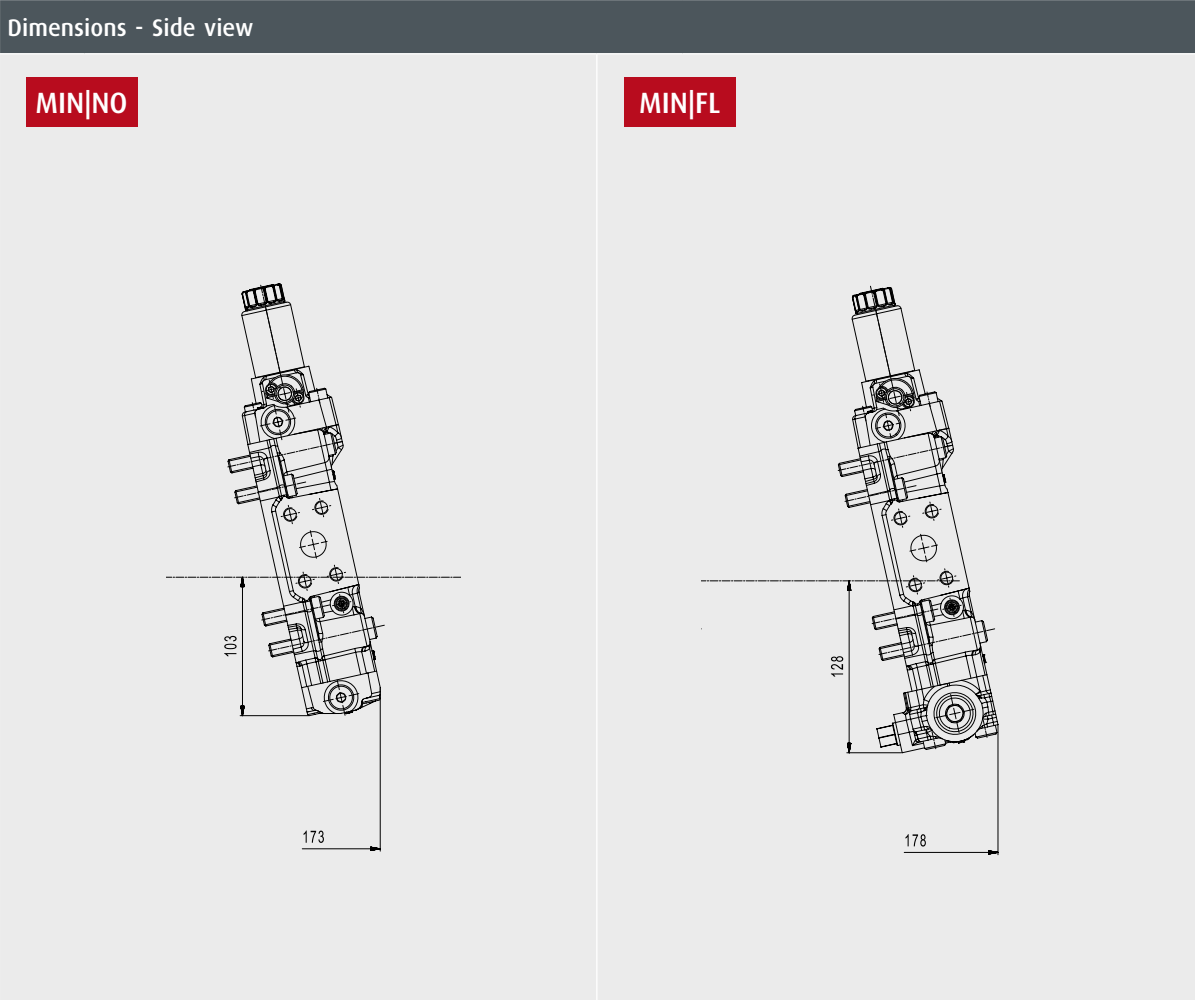
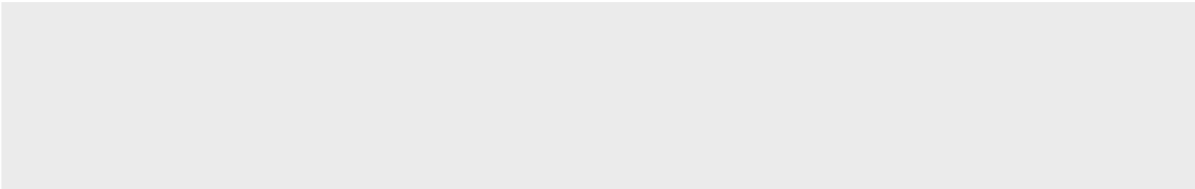
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In the following you will find the technical specifications of the flushing function. They are clustered according to the related mounting flange and nominal size. First get an overview of the table data showing pressure and flow data of this function. Beyond that you will find the dimensions of the related components in combination with each mounting flange and nominal size. In the section [Model Code & Availability], you can then check the availability of the flushing function in combination with additional functions integrated in the port plate housing. So please have a look at modelcode [item 10. Port Plate housing] and compile your desired configuration.



MAX NO	Examlle configuration with control considering default position Vg _{max} . Flushing function is not provided.		
MAX FL	Examlle configuration with control considering default position Vg _{max} . Flushing function is provided.		



MAX NO	Examlle configuration with control considering default position Vg _{min} . Flushing function is not provided.		
MAX FL	Examlle configuration with control considering default position Vg _{min} . Flushing function is provided.		

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In combination with
ISO 3019-1 / SAE J744

CMV 60-215

In combination with
ISO 3019-2 metric

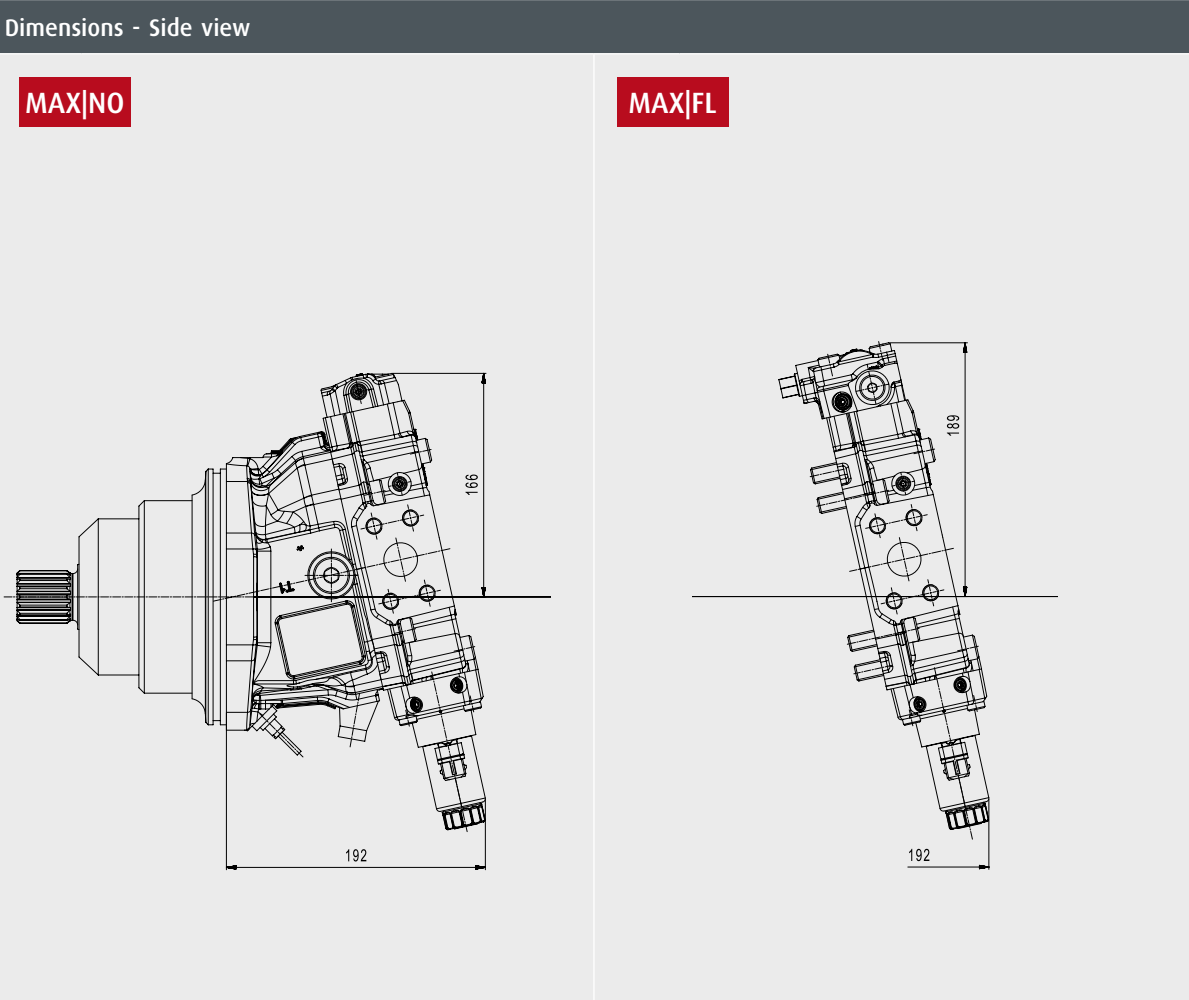
CMV 60-215

In combination with
PLUG-IN, SIM. TO ISO 3019-2

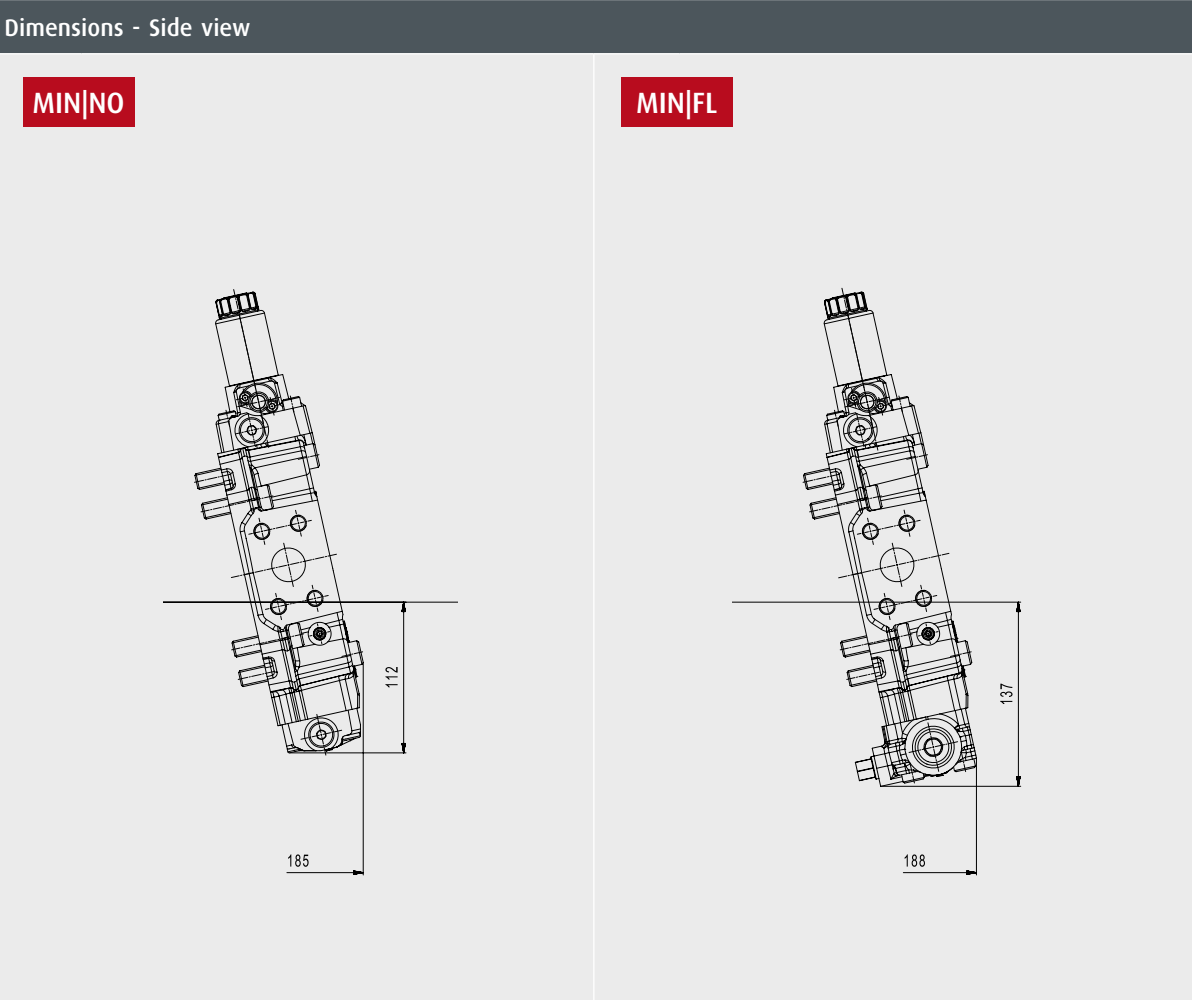
CMV 60-215



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MAX FL	Examlle configuration with control considering default position Vgmax. Flushing function is provided.		



MAX NO	Examlle configuration with control considering default position Vgmin. Flushing function is not provided.		
MAX FL	Examlle configuration with control considering default position Vgmin. Flushing function is provided.		

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In combination with ISO 3019-1 / SAE J744

CMV 60-215

In combination with ISO 3019-2 metric

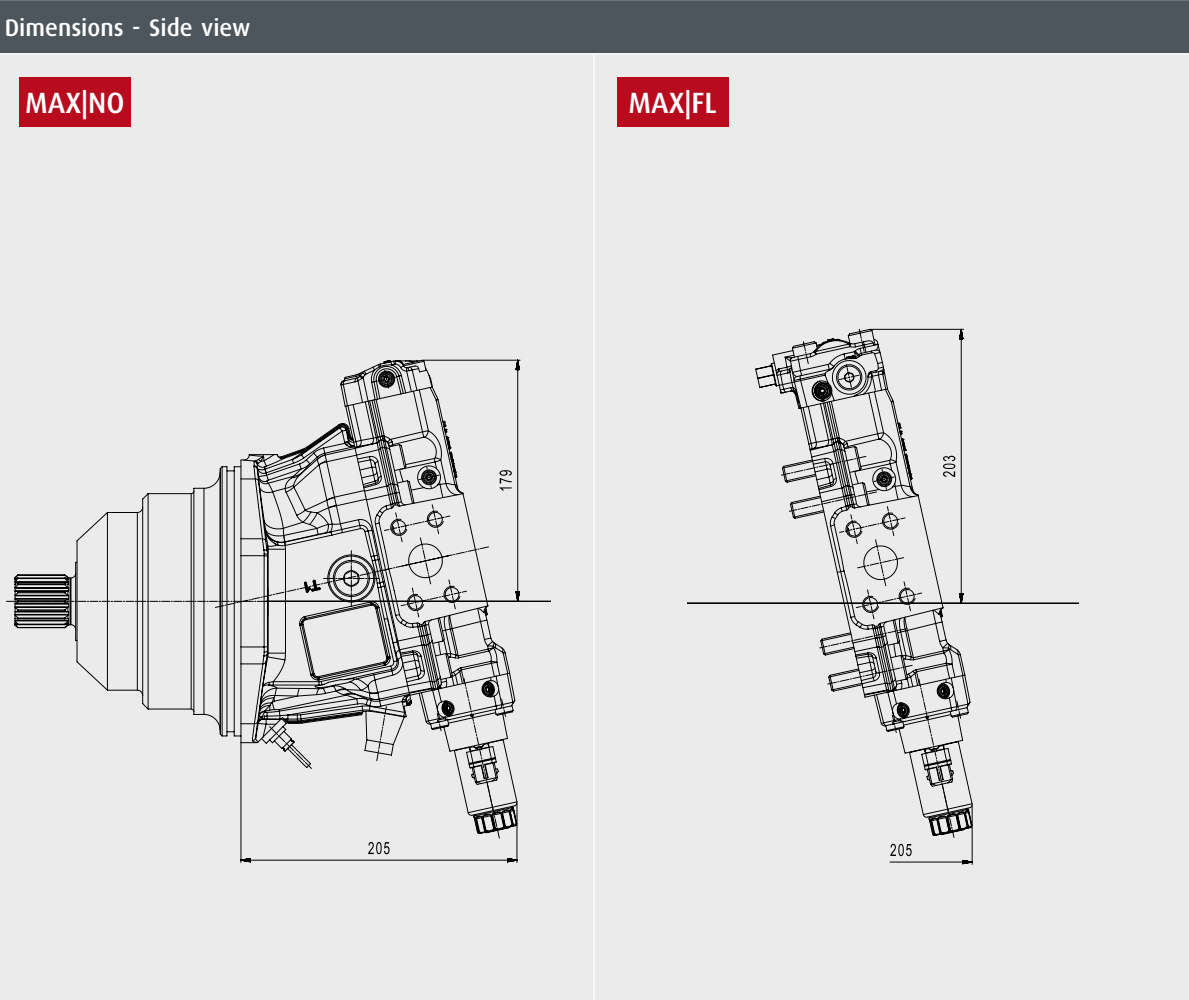
CMV 60-215

In combination with PLUG-IN, SIM. TO ISO 3019-2

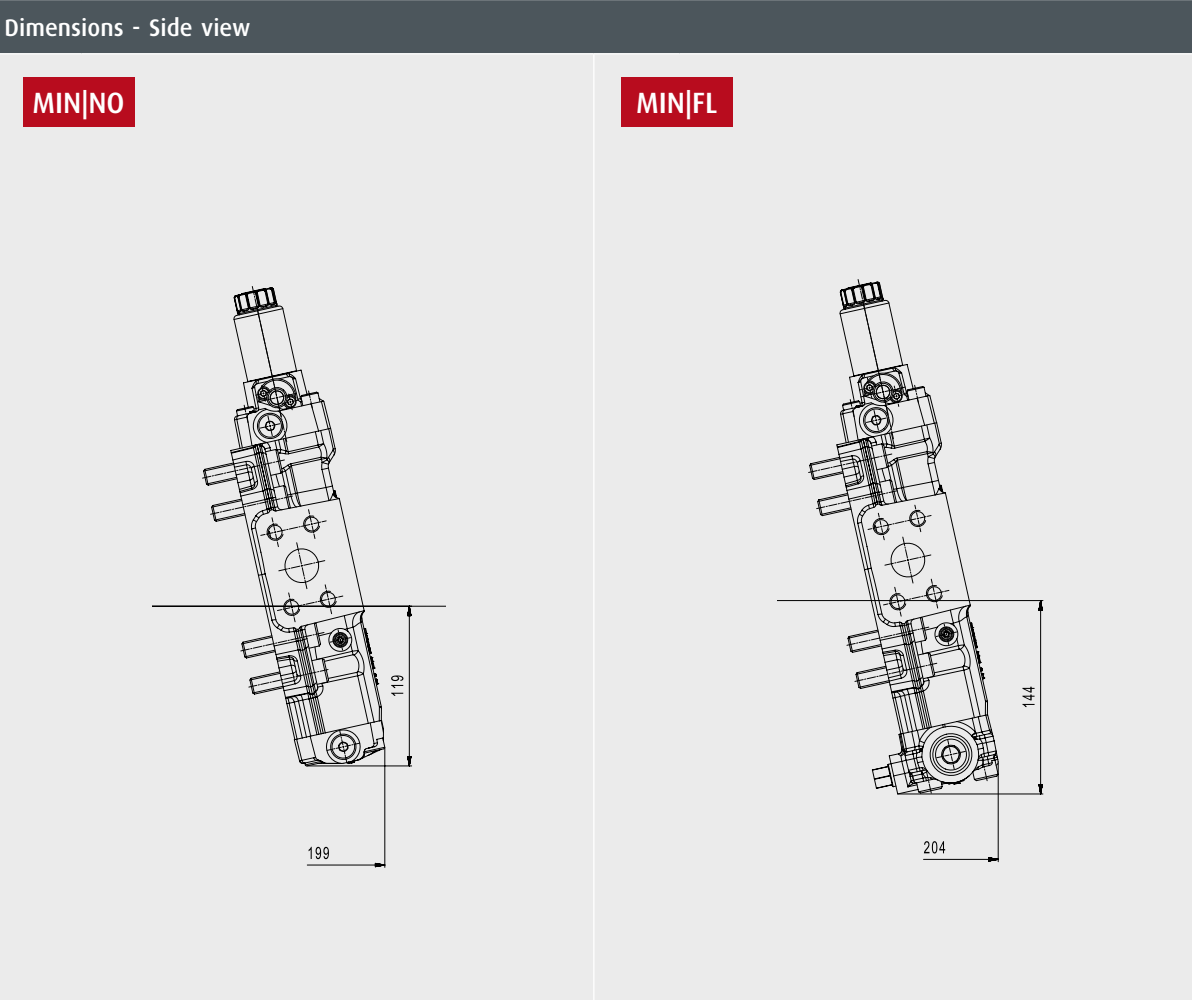
CMV 60-215



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MAX NO	Examlle configuration with control considering default position Vgmin. Flushing function is not provided.		
MAX FL	Examlle configuration with control considering default position Vgmin. Flushing function is provided.		

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In combination with ISO 3019-1 / SAE J744

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In combination with ISO 3019-2 metric

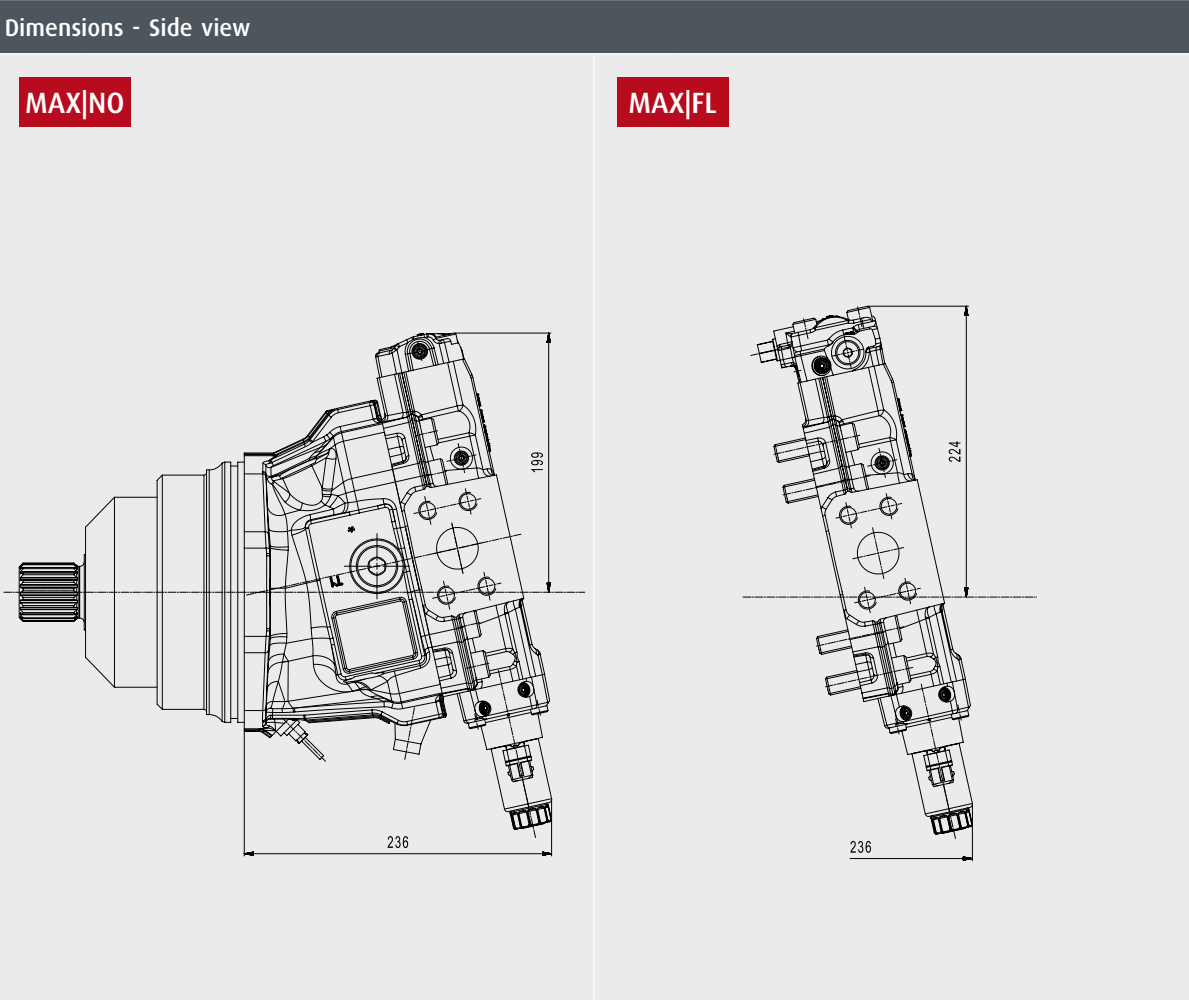
CMV 60-215

In combination with PLUG-IN, SIM. TO ISO 3019-2

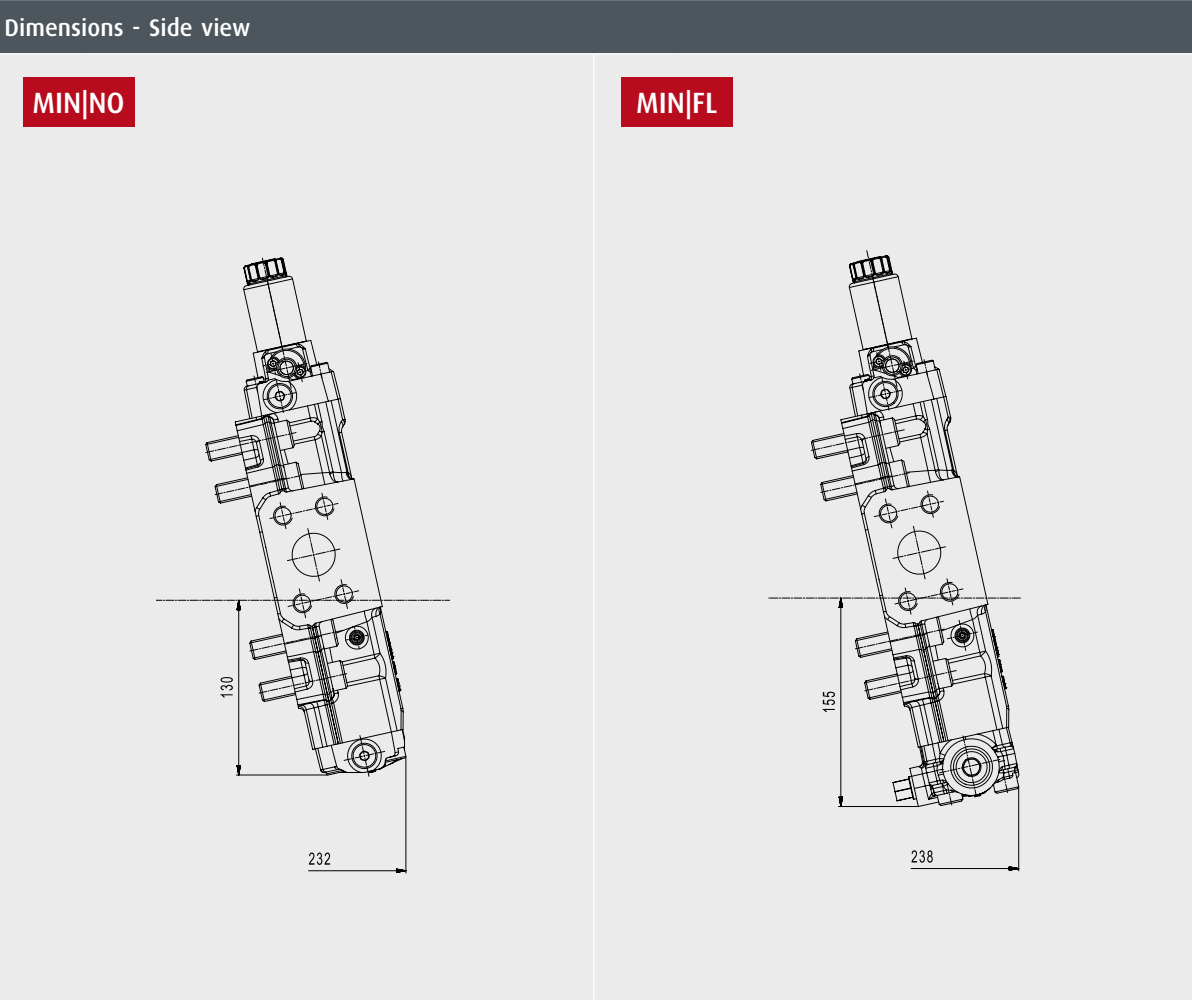
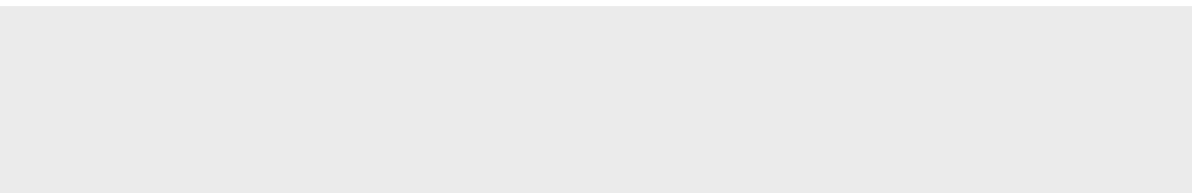
CMV 60-215



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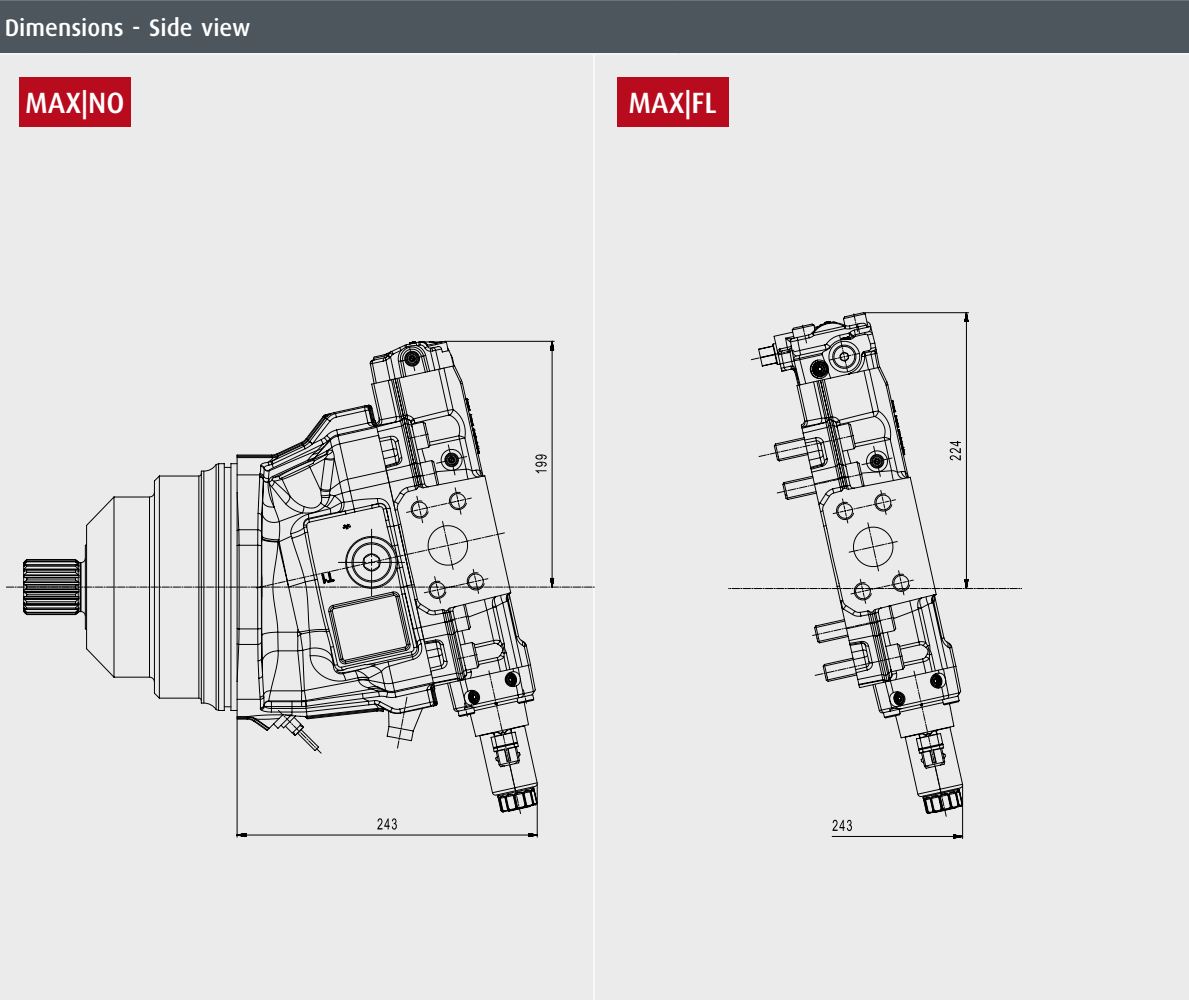
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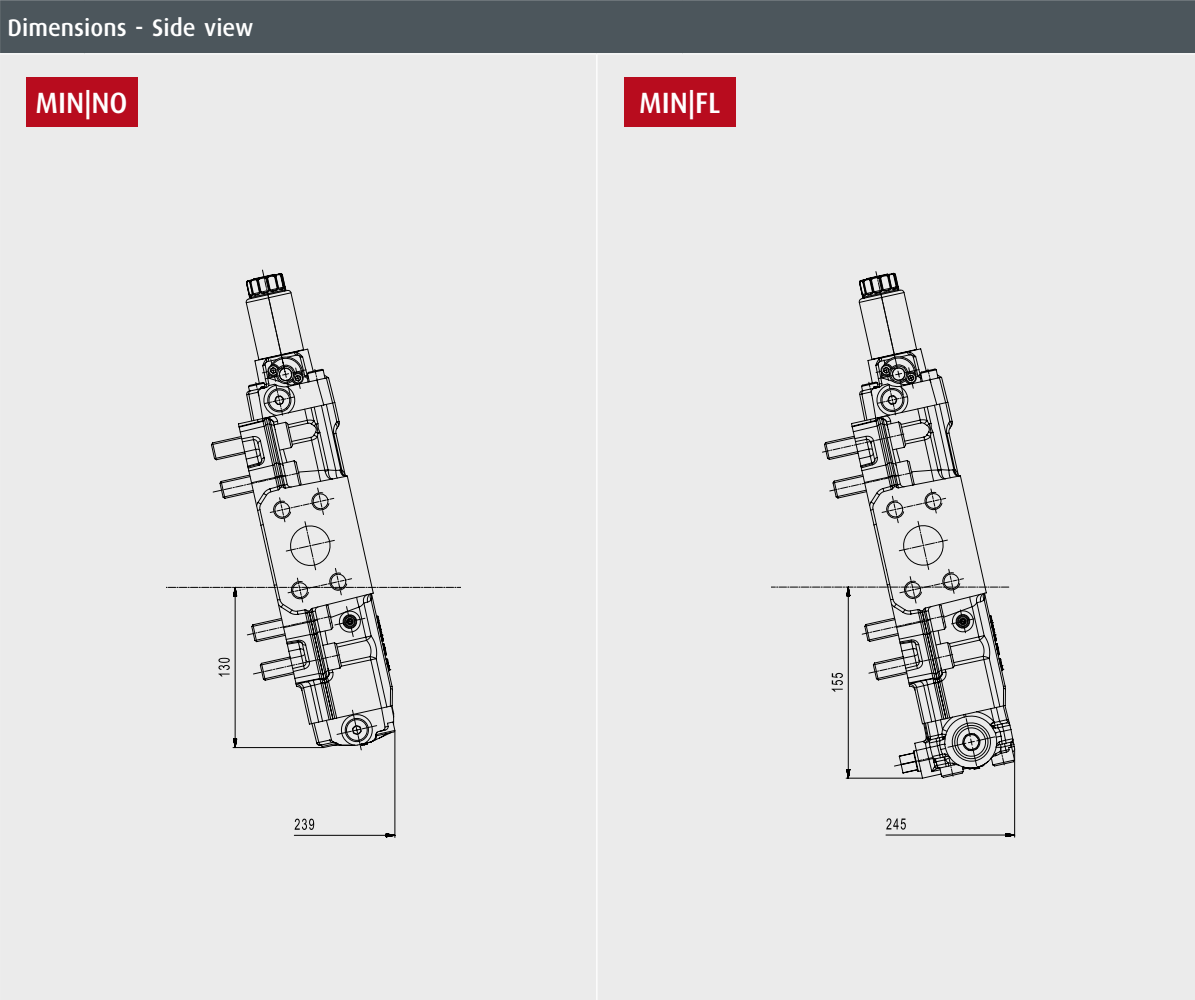
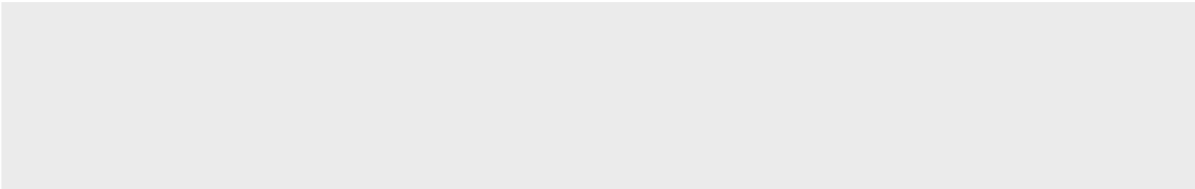
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In combination with
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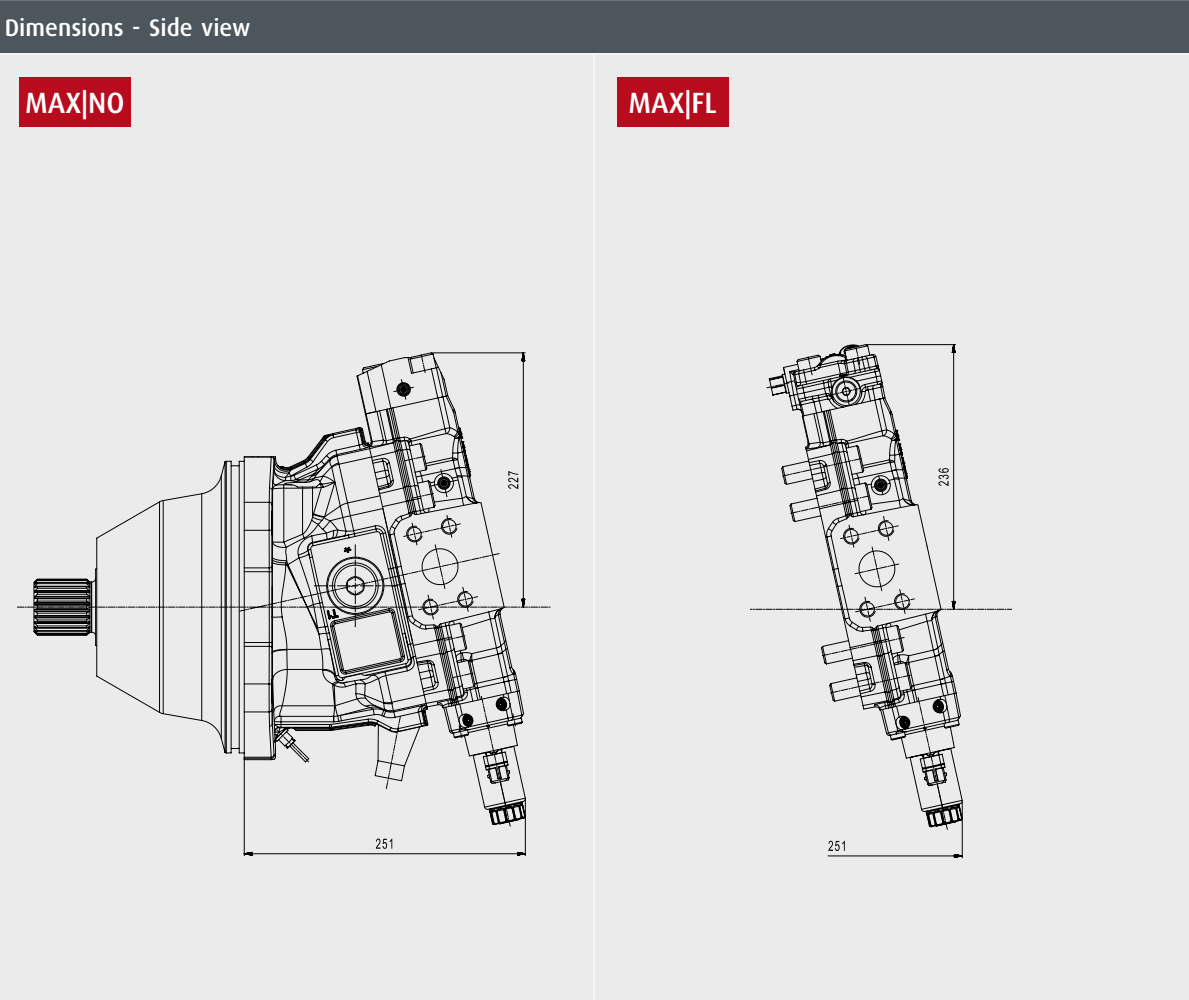
CMV 60-215

In combination with
PLUG-IN, SIM. TO ISO 3019-2

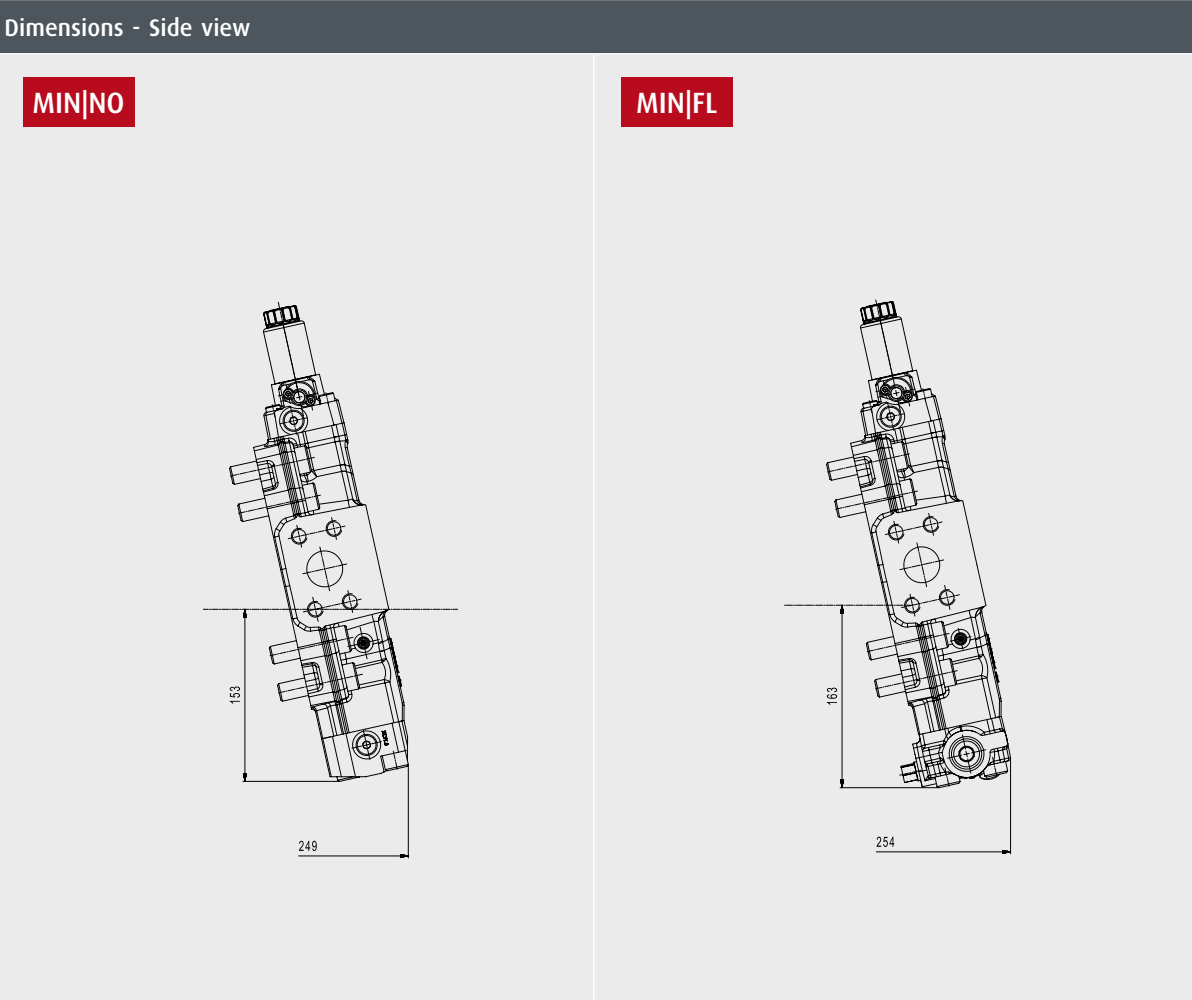
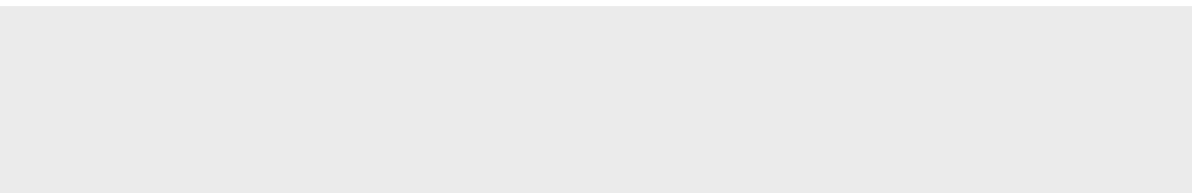
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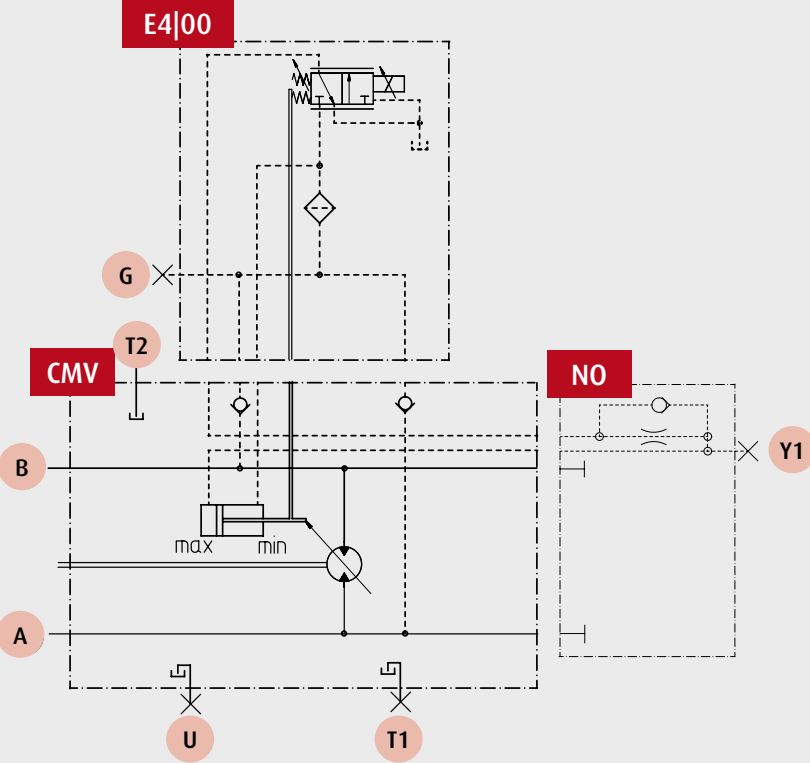
In combination with
PLUG-IN, SIM. TO ISO 3019-2

CMV 60-215



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Hydraulic Diagram (Configuration Examples)



CMV	Basic motor (without Controls/Functions/Options)	FL	Cover that provides flushing function	AX	Pressure equalization port	G	Ext. control pressure supply
E4 00	Displ. Contrl. E4 + Press. Contrl. 00	A	High pressure work port	BX		U	Bearing flush port
NO	Blind cover that closes the interface of the portplate and does not provide flushing function	B	High pressure work port	T1		Y1	Measuring port
				T2	Drain / vent port		

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