



Gear Pump groupe 02

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Allgemeine Informationen GENERAL INFORMATION

Allgemeine Beschreibung

Die hydraulischen Zahnradpumpen wandeln die mechanische Energie des Motors in Strömungsenergie der Betriebsflüssigkeit (Druck und Förderstrom) um. Ihre einfache Konstruktion und die verhältnismäßig niedrigen Preise erlauben ihre weite Anwendung in Hydrauliksystemen.

Beschreibung und Verwendung

Unsere HM Zahnradpumpen werden in fünf verschiedene Baugrößen eingestuft. Es gibt einfache, doppelte und Mehrfach-Pumpen mit einer Drehrichtung (rechts oder links laufend) und mit konstantem geometrischen Volumen. Wir können Ihnen auch bidirektionale Pumpen anbieten.

Die maximale Ansauggeschwindigkeit des Fördermediums beträgt 2,5 m/s. In diesem Fall können alle Pumpen mit einem Eingangsdruck zwischen -0,2 und 0,5 bar den Ausgangsdruck gemäß Katalog kontinuierlich erreichen.

Auf Anfrage können die Pumpen mit Druck- oder Prioritätsstromregler ausgestattet werden.

Die Pumpen finden ihren Einsatz in Hydraulikanlagen, Hydraulikaggregaten, Stromkreise in landwirtschaftlichen Fahrzeugen, Werkzeugmaschinen, usw.

Merkmale

Nennndruck: 160-250 bar
Nennndrehzahl: 700-3500 tr/mn
Fördervolumen: 04-32 cm³

Hinweis

Der Wert des Nennndrucks und des Spitzendrucks ist abhängig vom Fördervolumen.

General Description

The gear pumps are designed for transforming the mechanical energy as energy of the working liquid (pressure and flow rate).

The simplified construction at relatively low cost allow their use in a wide range of hydraulic systems.

Description and use

Our gear pumps are classified in 05 dimensional groups. These are simple, double or multiple irreversible pumps, with constant geometrical volume. We can offer you bidirectional pumps, too.

The maximum velocity of the fluid to inlet ports has to be 2.5 m/s and in this case all the pumps can work continuously with an inlet pressure between -0.2 and 0.5 bar and the outlet pressure conforming to the catalogue.

According to the desire of the customer, the pumps can be equipped with pressure or priority flow regulators.

Our pumps used in hydraulic installation, power packs and for the hydrostatic circuits of agricultural machines, heavy duty machine, machine tool and others.

Characteristics

Rated pressure: 160-250 bar
Rated speed: 700-3500 tr/mn
Displacement: 04-32 cm³

Note

Please note that the rated pressure and the rated speed depends on the displacement.

ANWENDUNGEN APPLICATIONS

INDUSTRIE/INDUSTRY



FORSTWIRTSCHAFT/FORESTRY



KONSTRUKTION/CONSTRUCTION

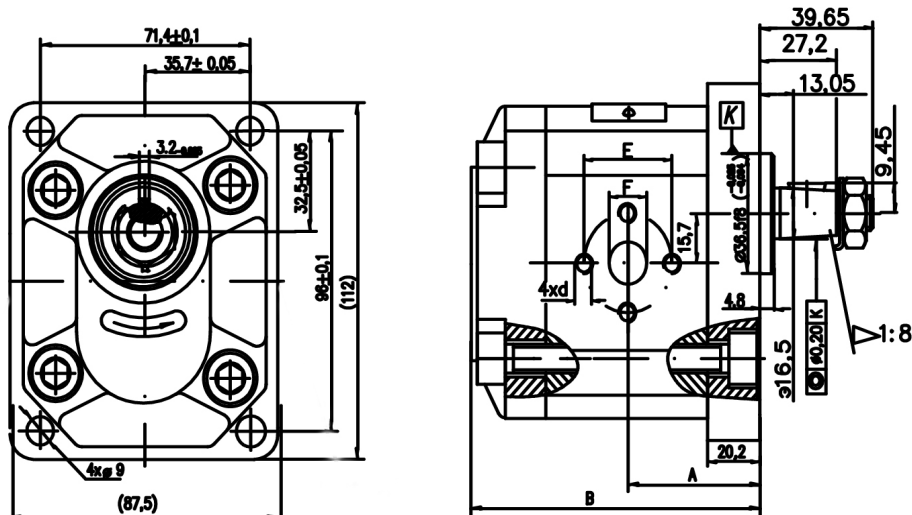


BESTELLNUMMER ORDERING CODE

1	Gruppe Group	2	Fördervolumen Displacement	3	Welle Shaft	4	Flansch Flange	5	Saug und druck Anschlüsse Inlets/outlet ports	6	Drehung Rotation
	HM2		cm ³								
			4	3	Konisch 1:8 Conical 1:8	3	Européene (4xØ9) Europeen (4xØ9)	3	Europäisch Europeen	C	Rechts Right
			5			7	SAE A SAE A	1	Gewinde BSP Threaded BSP	A	Links Left
			6	A	verzahnt 9T.16/32 Splined 9T.16/32	4	DIN 60x 60 DIN 60x 60	2	DIN DIN		
			9								
			10	D	Konisch 1:5 Conical 1:5						
			11								
			12								
			14								
			15	1	Konisch 1:5 Conical 1:5	5	DIN 60x 60 DIN 60x 60				
			16								
			17								
			19								
			22								
			25								
			26								
			28								
			32								

HM2-3333-C/A

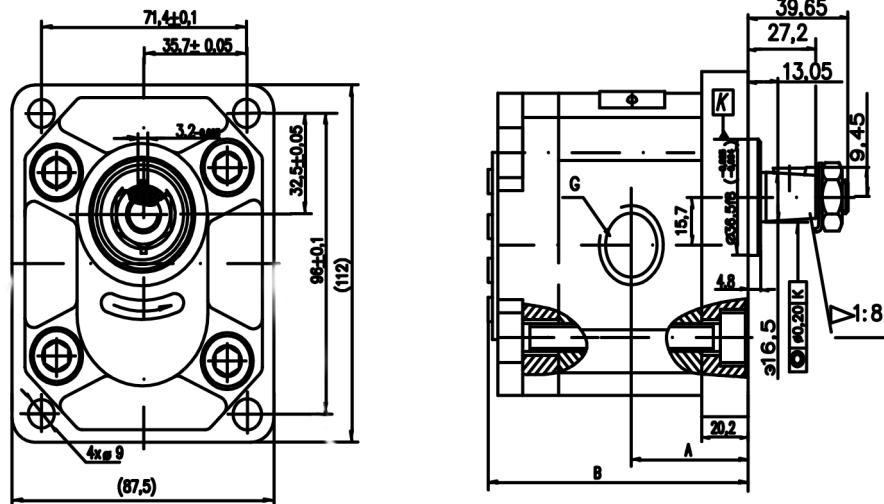
HM2-3333-C/A



Fördervolumen Displacement	Abmessungen Dimensions								Technische Daten Technical data	
	A	B	Sauganschlüsse Inlet ports			Druckanschlüsse Outlet ports			Nenndruck Nominale pressure	Drehzahl Speed
			E	F	d	E	F	d		
	mm								bar	min-1
4	43.7	92.2	Ø30.2	Ø13.1	M6	Ø30.2	Ø13.1	M6	250	700..3500
5	44.5	93.7	Ø30.2	Ø13.1	M6	Ø30.2	Ø13.1	M6		
6	45.2	95.2	Ø30.2	Ø13.1	M6	Ø30.2	Ø13.1	M6		
9	47.2	99.2	Ø30.2	Ø13.1	M6	Ø30.2	Ø13.1	M6		
10	48.2	101.2	Ø39.7	Ø19	M8	Ø30.2	Ø14.2	M6		
11	49.2	103.2	Ø39.7	Ø19	M8	Ø30.2	Ø14.2	M6		
12	50.2	105.2	Ø39.7	Ø19	M8	Ø30.2	Ø14.2	M6		
14	52.2	109.2	Ø39.7	Ø19	M8	Ø30.2	Ø14.2	M6		
15	53	110.7	Ø39.7	Ø19	M8	Ø30.2	Ø14.2	M6		
16	53.7	112.2	Ø39.7	Ø19	M8	Ø30.2	Ø14.2	M6		
17	54.2	113.2	Ø39.7	Ø19	M8	Ø30.2	Ø14.2	M6		
19	56.2	117.2	Ø39.7	Ø19	M8	Ø30.2	Ø14.2	M6	200	700..2500
22	59.2	123.2	Ø39.7	Ø19	M8	Ø30.2	Ø14.2	M6		
25	61	126.2	Ø39.7	Ø19	M8	Ø30.2	Ø14.2	M6	160	700..2000
26	61.7	128.2	Ø39.7	Ø19	M8	Ø30.2	Ø14.2	M6		
28	68.7	137.7	Ø39.7	Ø19	M8	Ø39.7	Ø19	M8		
32	71.1	143.7	Ø39.7	Ø19	M8	Ø39.7	Ø19	M8		

HM2-3311-C/A

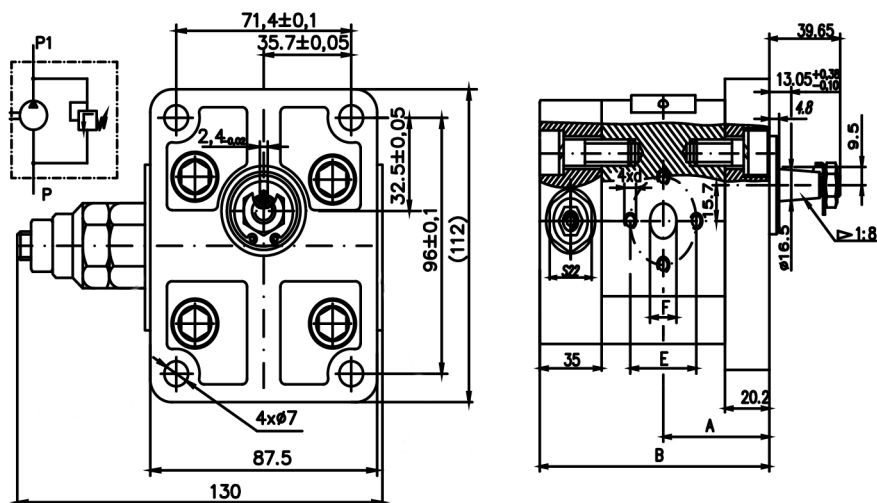
HM2-3311-C/A



Fördervolumen Displacement	Abmessungen Dimensions				Technische Daten Technical data	
	A	B	Sauganschlüsse Inlet ports	Druckanschlüsse Outlet ports	Nenndruck Nominale pressure	Drehzahl Speed
			G	G		
	mm		BSP		bar	min-1
4	43.7	92.2	G1/2"	G1/2"	250	700....3500
5	44.5	93.7	G1/2"	G1/2"		
6	45.2	95.2	G1/2"	G1/2"		
9	47.2	99.2	G1/2"	G1/2"		
10	48.2	101.2	G3/4"	G1/2"		
11	49.2	103.2	G3/4"	G1/2"		
12	50.2	105.2	G3/4"	G1/2"		
15	53	110.7	G3/4"	G1/2"		
16	53.7	112.2	G3/4"	G1/2"		
17	54.2	113.2	G3/4"	G1/2"		
19	56.2	117.2	G3/4"	G1/2"	200	700....3000
22	59.2	123.2	G3/4"	G1/2"		
25	61	126.2	G3/4"	G1/2"		
26	61.7	128.2	G3/4"	G1/2"		
28	68.7	137.7	G3/4"	G1/2"	160	700....2000
32	71.1	143.7	G3/4"	G1/2"		

HM2-3133-C/A-DBV

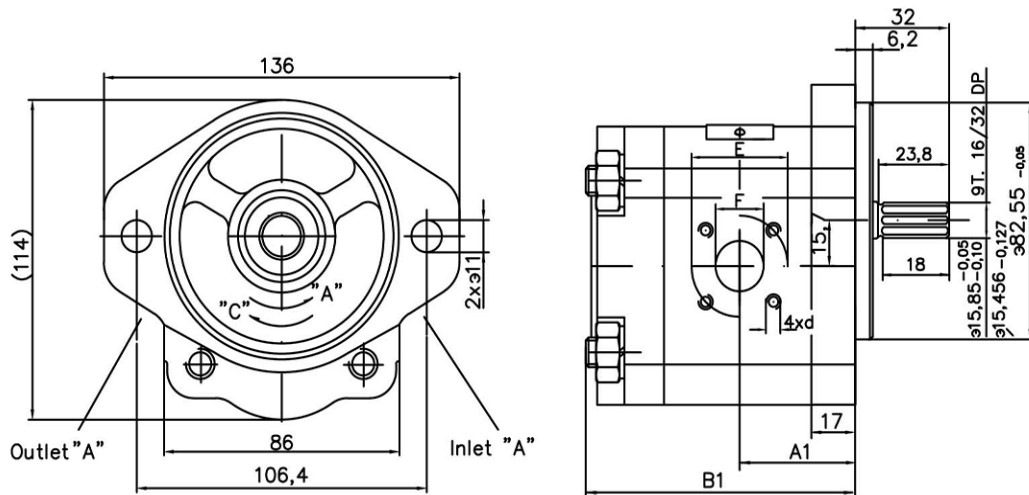
HM2-3133-C/A-DBV



Fördervolumen Displacement	Abmessungen Dimensions								Technische Daten Technical data	
	A	B	Sauganschlüsse Inlet ports			Druckanschlüsse Outlet ports			Nenndruck Nominale pressure	Drehzahl Speed
			E	F	d	E	F	d		
	mm								bar	min-1
4	43.7	92.2	Ø30.2	Ø13.1	M6	Ø30.2	Ø13.1	M6	250	700..3500
5	44.5	93.7	Ø30.2	Ø13.1	M6	Ø30.2	Ø13.1	M6		
6	45.2	95.2	Ø30.2	Ø13.1	M6	Ø30.2	Ø13.1	M6		
9	47.2	99.2	Ø30.2	Ø13.1	M6	Ø30.2	Ø13.1	M6		
10	48.2	101.2	Ø30.7	Ø19	M8	Ø30.2	Ø14.2	M6		
11	49.2	103.2	Ø30.7	Ø19	M8	Ø30.2	Ø14.2	M6		
12	50.2	105.2	Ø30.7	Ø19	M8	Ø30.2	Ø14.2	M6		
14	52.2	109.2	Ø30.7	Ø19	M8	Ø30.2	Ø14.2	M6		

HM2-A722-C/A

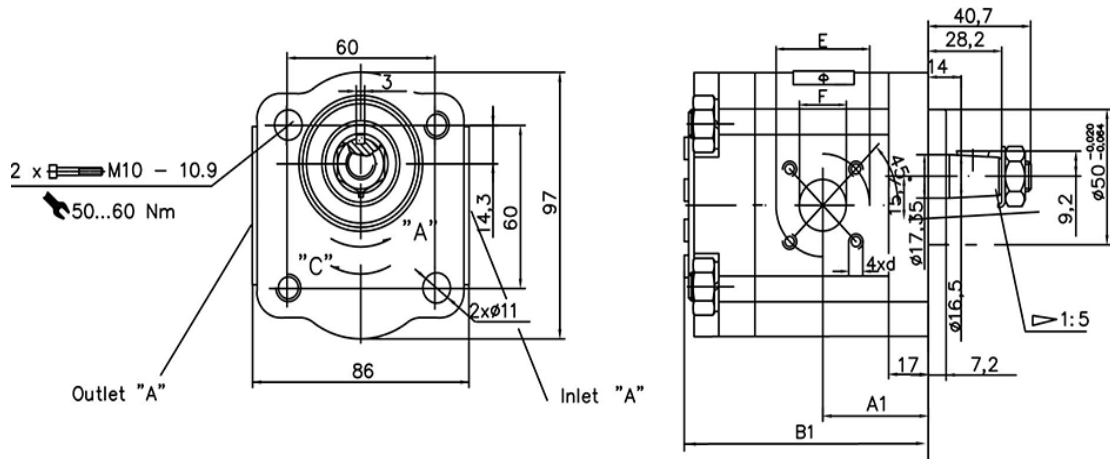
HM2-A722-C/A



Fördervolumen Displacement	Dimensions Dimensions								Données techniques Technical data	
	A1	B1	Orifices entrées Inlet ports			Orifices sorties Outlet ports			Pression nominale Nominale pressure	Vitesse Speed
			E	F	d	E	F	d		
	mm								bar	min-1
4	40.5	89	Ø40	Ø20	M6	Ø35	Ø15	M6	250	700..3500
5	41.3	90.5	Ø40	Ø20	M6	Ø35	Ø15	M6		
6	42	92	Ø40	Ø20	M6	Ø35	Ø15	M6		
9	44	96	Ø40	Ø20	M6	Ø35	Ø15	M6		
10	45	98	Ø40	Ø20	M6	Ø35	Ø15	M6		
11	46	100	Ø40	Ø20	M6	Ø35	Ø15	M6		
12	47	102	Ø40	Ø20	M6	Ø35	Ø15	M6		
14	49	106	Ø40	Ø20	M6	Ø35	Ø15	M6		
15	50	107.5	Ø40	Ø20	M6	Ø35	Ø15	M6		
16	50.5	109	Ø40	Ø20	M6	Ø35	Ø15	M6		
17	51	110	Ø40	Ø20	M6	Ø35	Ø15	M6	200	700..2500
19	53	114	Ø40	Ø20	M6	Ø35	Ø15	M6		
22	56	120	Ø40	Ø20	M6	Ø35	Ø15	M6		
25	58	123.5	Ø40	Ø20	M6	Ø35	Ø15	M6	160	700..2000
26	58.5	125	Ø40	Ø20	M6	Ø35	Ø15	M6		

HM2-D422-C/A

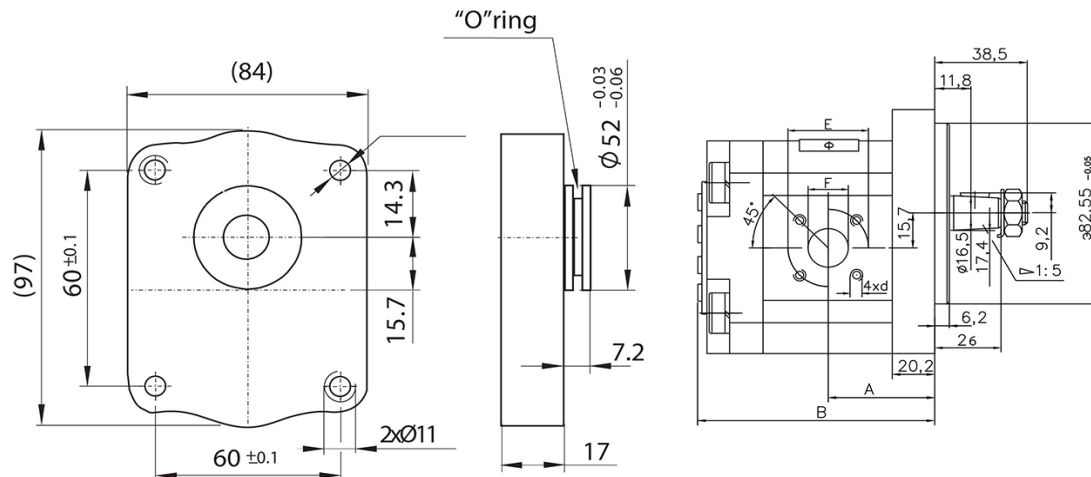
HM2-D422-C/A



Fördervolumen Displacement	Abmessungen Dimensions								Technishce Daten Technical data	
	A1	B1	Sauganschlüsse Inlet ports			Druckanschlüsse Outlet ports			Nenndruck Nominale pressure	Drehzahl Speed
			E	F	d	E	F	d		
	mm								bar	min-1
4	40.5	89	Ø40	Ø20	M6	Ø35	Ø15	M6	250	700..3500
5	41.3	90.5	Ø40	Ø20	M6	Ø35	Ø15	M6		
6	42	92	Ø40	Ø20	M6	Ø35	Ø15	M6		
9	44	96	Ø40	Ø20	M6	Ø35	Ø15	M6		
10	45	98	Ø40	Ø20	M6	Ø35	Ø15	M6		
11	46	100	Ø40	Ø20	M6	Ø35	Ø15	M6		
12	47	102	Ø40	Ø20	M6	Ø35	Ø15	M6		
14	49	106	Ø40	Ø20	M6	Ø35	Ø15	M6		
15	50	107.5	Ø40	Ø20	M6	Ø35	Ø15	M6		
16	50.5	109	Ø40	Ø20	M6	Ø35	Ø15	M6		
17	51	110	Ø40	Ø20	M6	Ø35	Ø15	M6		
19	53	114	Ø40	Ø20	M6	Ø35	Ø15	M6	200	700..2500
22	56	120	Ø40	Ø20	M6	Ø35	Ø15	M6		
25	58	123.5	Ø40	Ø20	M6	Ø35	Ø15	M6		
26	58.5	125	Ø40	Ø20	M6	Ø35	Ø15	M6	160	700..2000

HM2-1522-C/A

HM2-1522-C/A



Fördervolumen Displacement	Abmessungen Dimensions								Technische Daten Technical data	
	A	B	Sauganschlüsse Inlet ports			Druckanschlüsse Outlet ports			Nenndruck Nominale pressure	Drehzahl Speed
			E	F	d	E	F	d		
	mm								bar	min-1
4	43.7	92.2	Ø40	Ø20	M6	Ø35	Ø15	M6	250	700..3500
5	44.5	93.7	Ø40	Ø20	M6	Ø35	Ø15	M6		
6	45.2	95.2	Ø40	Ø20	M6	Ø35	Ø15	M6		
9	47.2	99.2	Ø40	Ø20	M6	Ø35	Ø15	M6		
10	48.2	101.2	Ø40	Ø20	M6	Ø35	Ø15	M6		
11	49.2	103.2	Ø40	Ø20	M6	Ø35	Ø15	M6		
12	50.2	105.2	Ø40	Ø20	M6	Ø35	Ø15	M6		
14	52.2	109.2	Ø40	Ø20	M6	Ø35	Ø15	M6		
15	53	110.7	Ø40	Ø20	M6	Ø35	Ø15	M6		
16	53.7	112.2	Ø40	Ø20	M6	Ø35	Ø15	M6		
17	54.2	113.2	Ø40	Ø20	M6	Ø35	Ø15	M6	200	700..2500
19	56.2	117.2	Ø40	Ø20	M6	Ø35	Ø15	M6		
22	59.2	123.2	Ø40	Ø20	M6	Ø35	Ø15	M6		
25	61	126.2	Ø40	Ø20	M6	Ø35	Ø15	M6		
26	61.7	128.2	Ø40	Ø20	M6	Ø35	Ø15	M6	160	700..2000

Hinweis NOTE