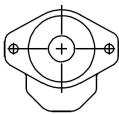


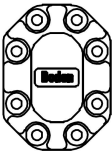
















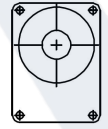









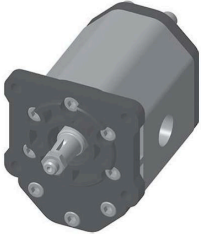

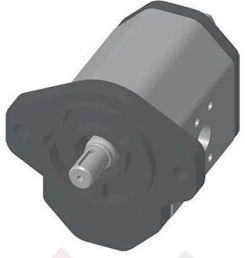




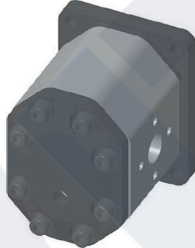


Ordering Code Rules

B	H	P	3	A0	D	20	CO	EO	/omit	/omit	/omit
Boden	Material	Function	Group	Front cover	Rotation	Displacement	Shaft	Ports	Special structure	Options	Other
A	Front and end cover material aluminium	P Pump M Motor	3 Group 3		D Clockwise S Counter clockwise R Reversible	20 22 26 33 39 46 50 52 55 63 71					Special designing
H	30 bar. Front and end cover material cast iron, pressure 30 bar higher than aluminum covers									Options	
										Options	
										Omit-Range between -10°C and +80°C, inlet pressure up to max. 3 bar absolute.	
										V Version suitable for fluid at hi-temperatures, range between -10°C and +120°C.	
										H Version suitable for fluid at low-temperatures, range between -40°C and +80°C.	
										N Version suitable for inlet pressure up to max. 3 and 10 bar absolute.	
For other special options, please contact our engineers.											

Front cover		Shaft		Ports		Special structure	
A0	ø101.6 Diamond front cover (centering ø101.6mm) 	TO	1:8 Taper shaft 1:8 	E_	Rectangular flange 	omit-regular	
A1	ø100 Square front cover (centering ø100mm) 	T1	1:5 Taper shaft 1:5 	F_	Rectangular flange 		
B0	ø90 Square front cover (centering ø90mm) 	C0	ø25 Straight keyed ø25 	F_	Split flange 	Q_ Back cover with oil drain	
		C2	ø22.22 Straight keyed ø22.22 	Z_	(M) Metric thread 		
B1	ø50.8 Square front cover (centering ø50.8mm) 	C3	ø25.4 Straight keyed ø25.4 	L_	(G) Gas thread 	183 See page 183 for details 	
		H0	Rectangle spline shaft $\square 6-25 \times 20,1 \times 6$ 	U_	(UNF-2B) UNF thread 		
B2	ø105 Square front cover (centering ø105mm) 	H2	Rectangle spline shaft $\square 6-25 \times 21 \times 5$ 	R_	(PT) PT thread 	179 See page 179 for details 	
		S0	SAE spline shaft DP16/32-30°-13T 	X	Body without ports 		
179 See page 179 for details		S1	SAE spline shaft DP16/32-30°-15T 				
		180 See page 180 for details		181-182 See page 181-182 for details			

If you need other models, please see the details page or contact our engineers.

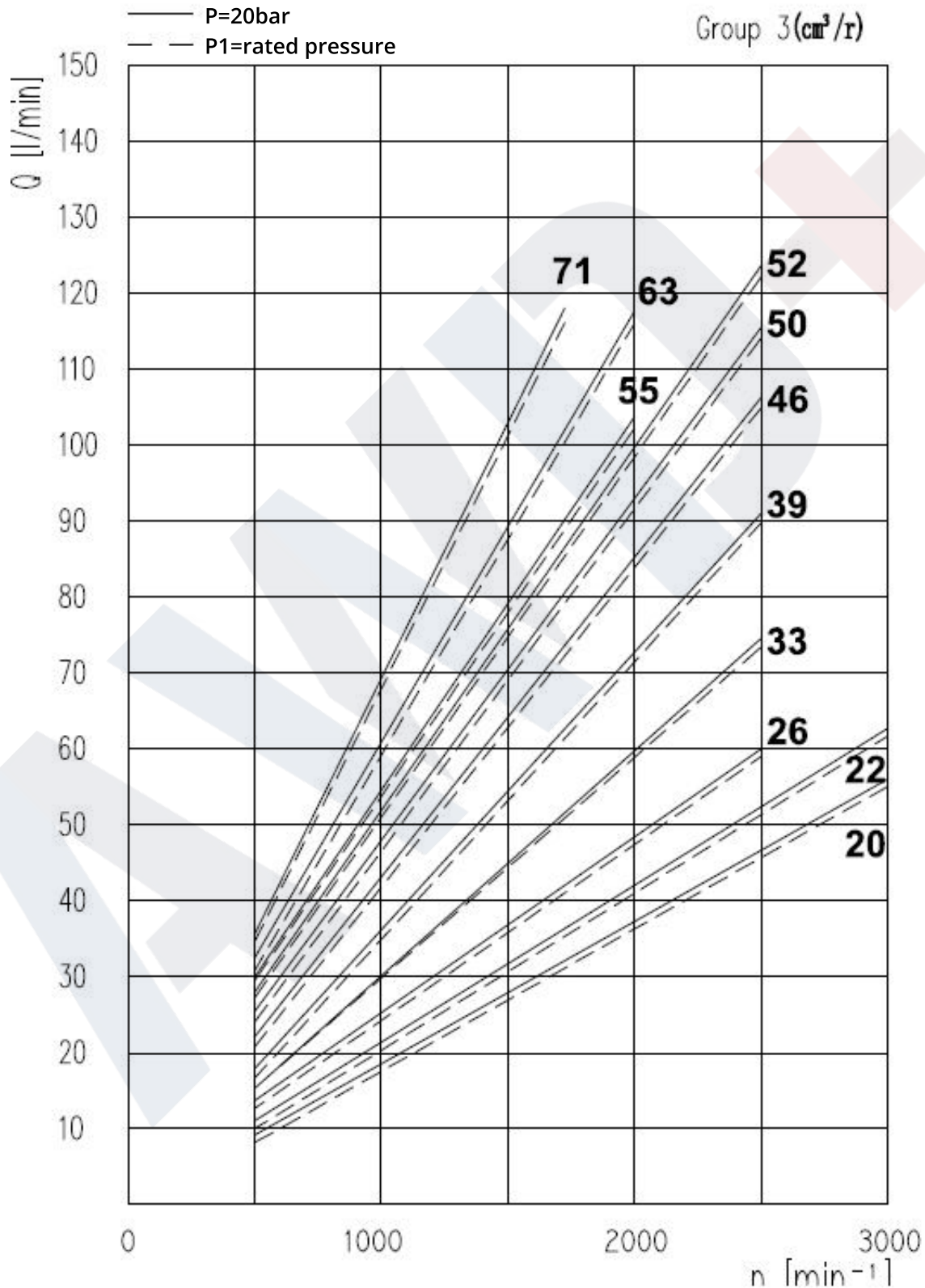
Standart Product Overview

type			
			
page	184	185	186
type			
			
page	187	188	

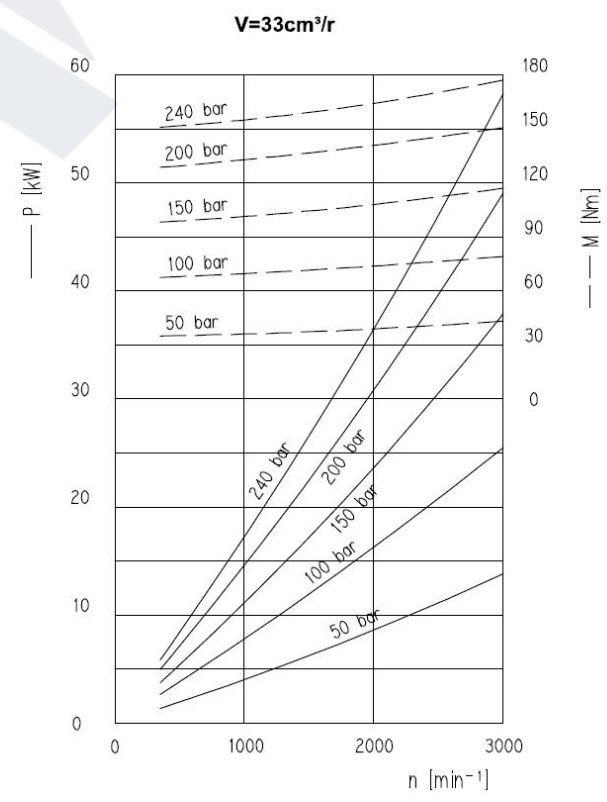
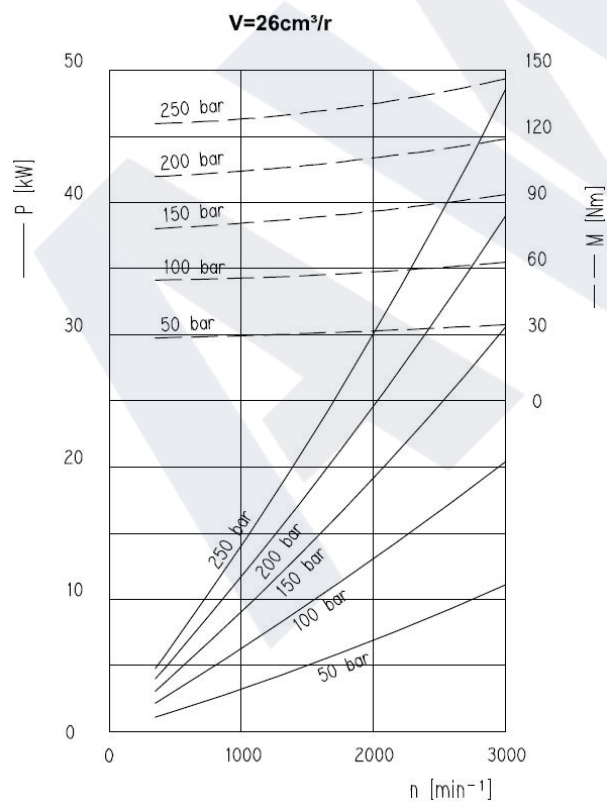
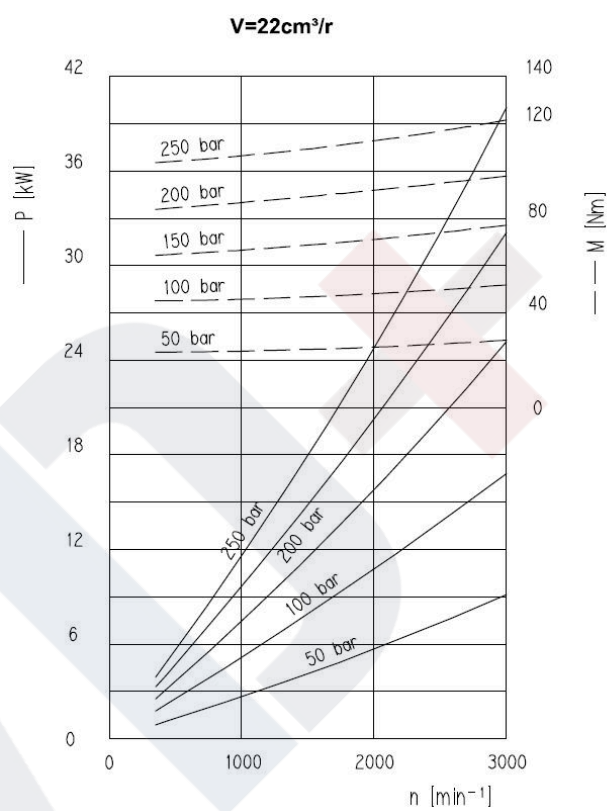
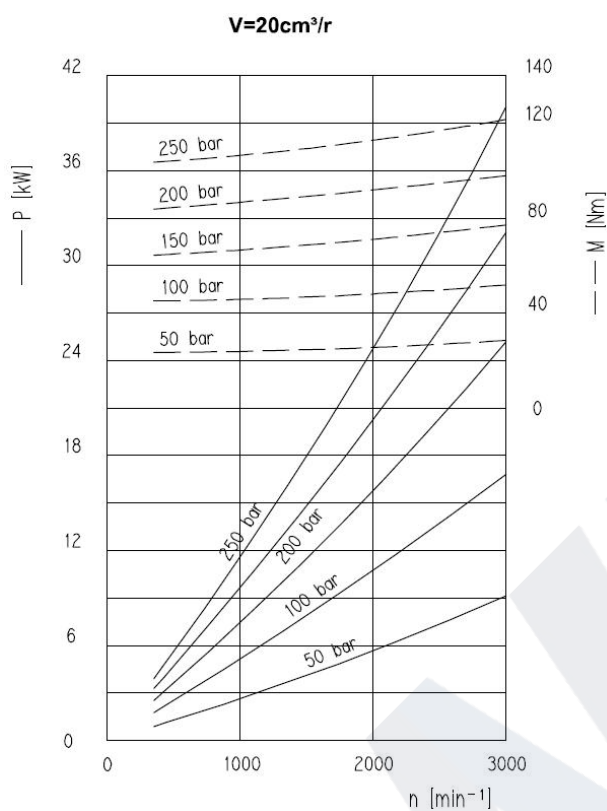
Displacement parameter table

Displacement	V	cm ³ /rev	20	22	26	33	39	46	50	52	55	63	71
Suction absolute pressure	Pe	bar	0.7...3										
Max. continuous pressure	P1		250	230		220	200	180					
Max. intermittent pressure	P2		265	250		240	230	200					
Max. peak pressure	P3		280	270		260	250	200					
Min. speed	n _{Min}	r/min	600		500			400					
Max. speed	n _{Max}		3500		3000			2800		2500			
Volumetric efficiency	η _v	%	>92			>93			>94			>95	

Power Performance Curve Table

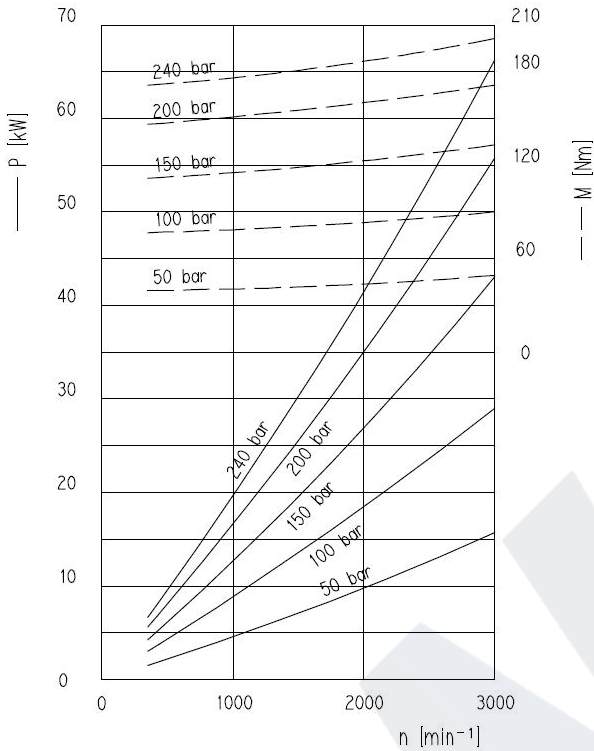


Power Performance Curve Table

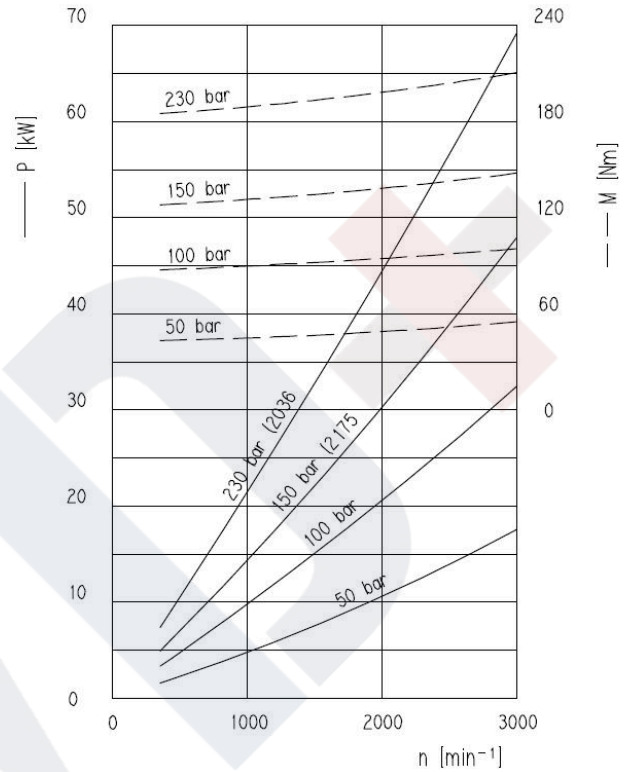


Power Performance Curve Table

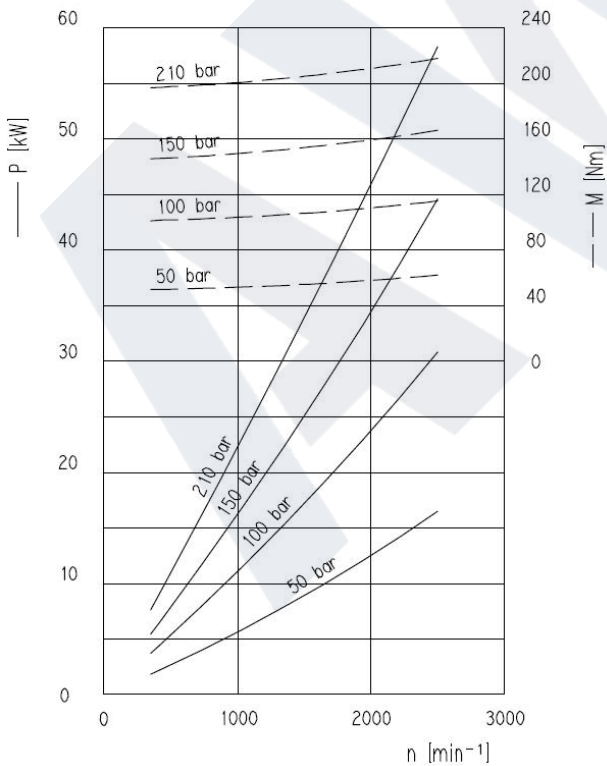
V=39cm³/r



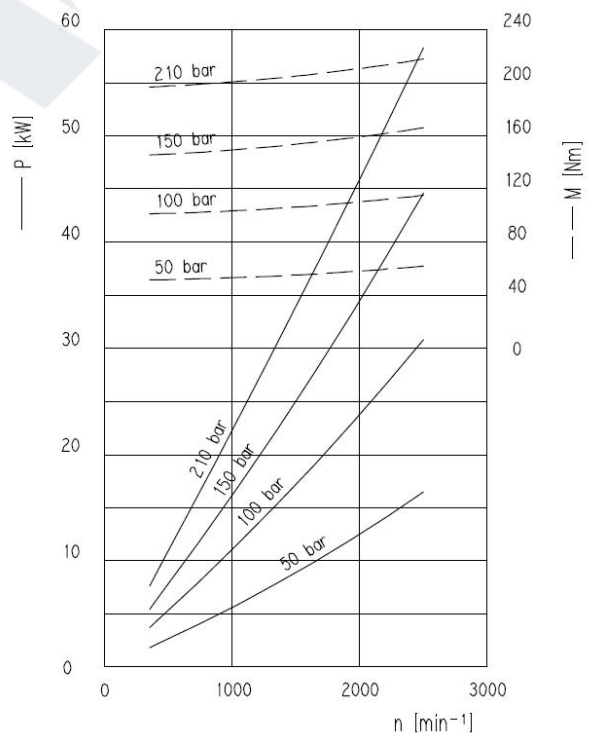
V=46cm³/r



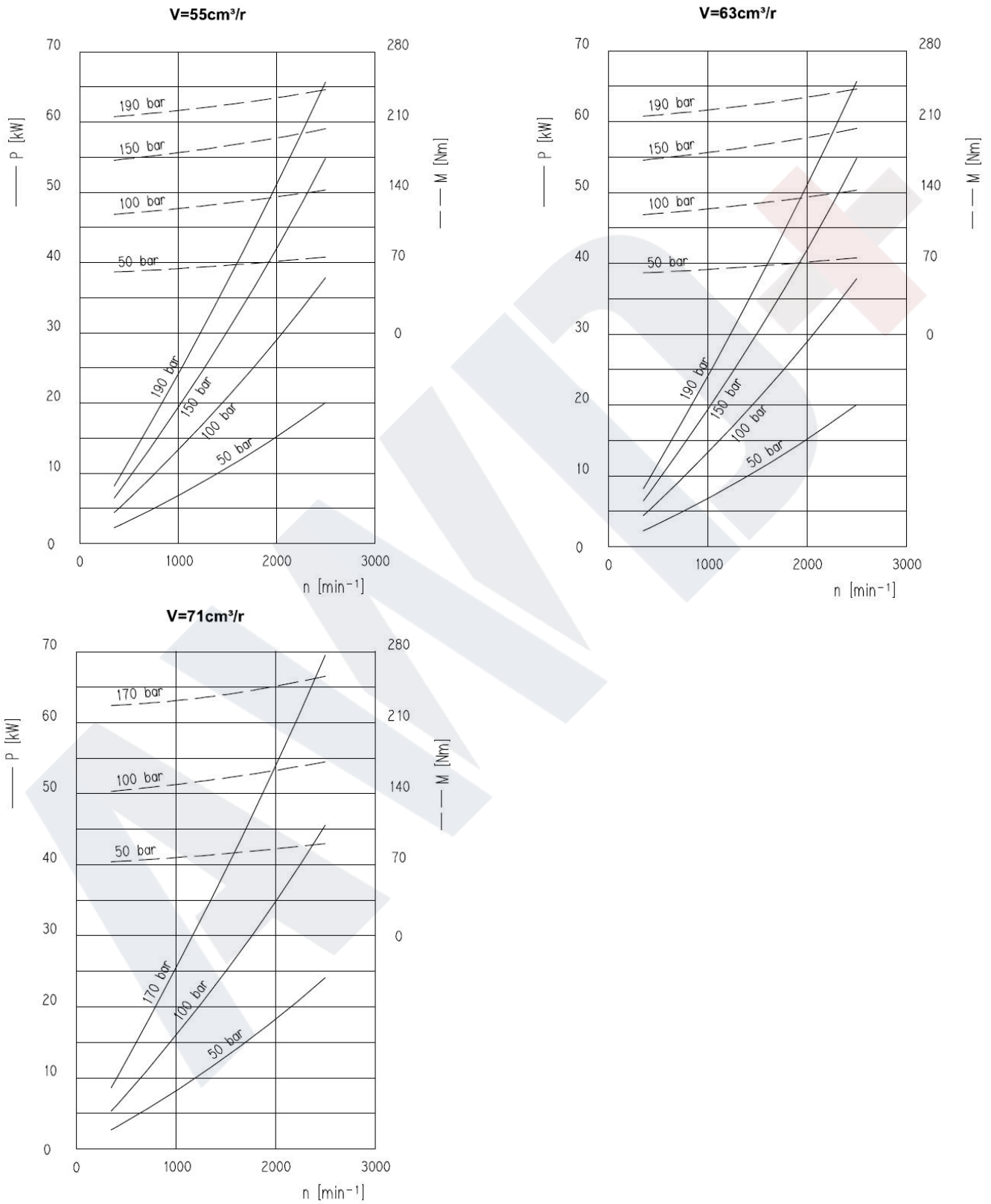
V=50cm³/r



V=52cm³/r



Power Performance Curve Table



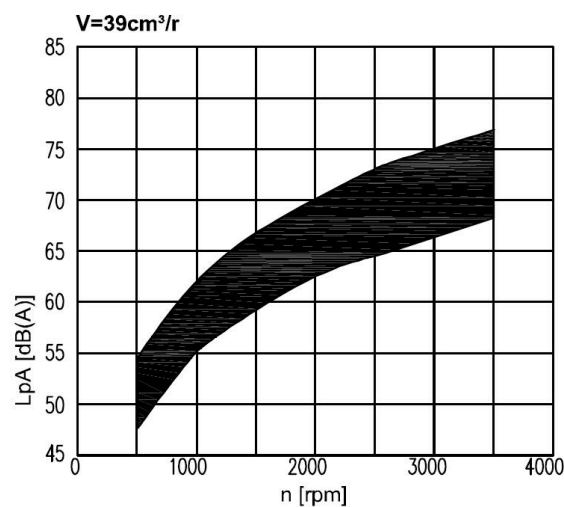
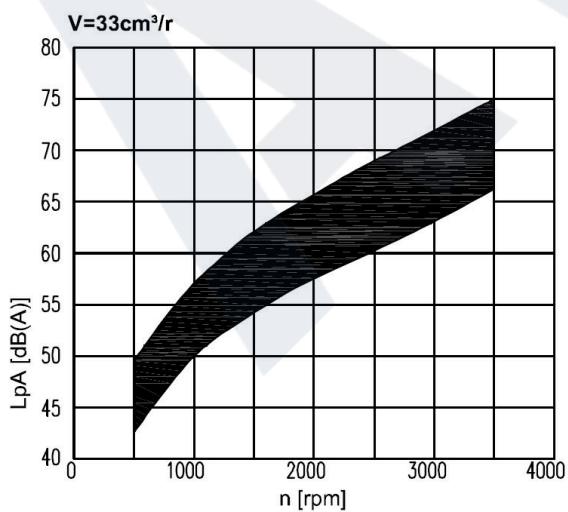
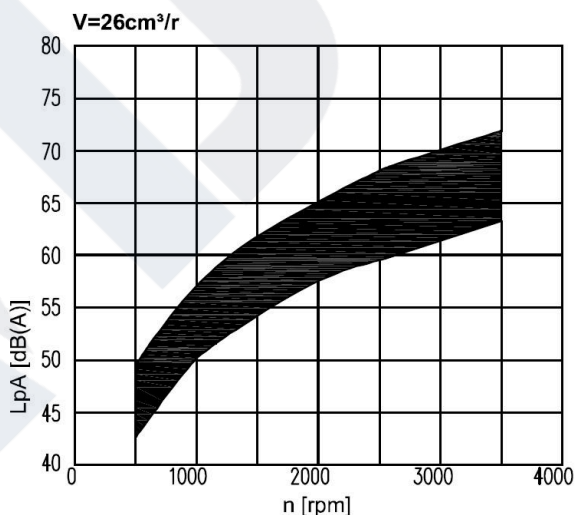
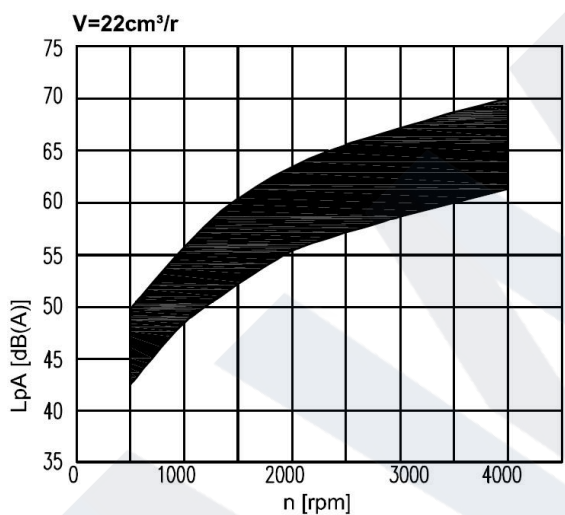
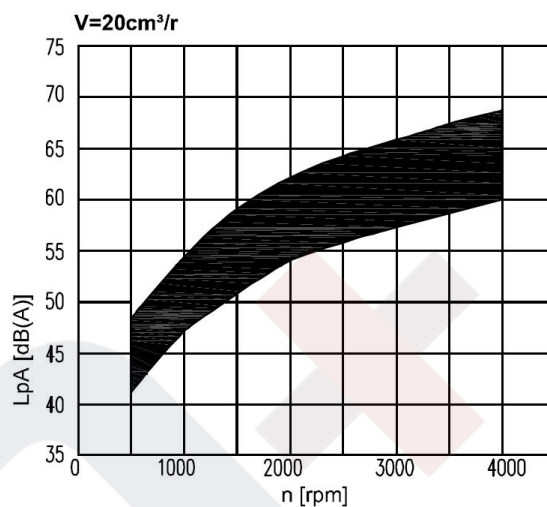
Noise Curve Table

The noise level depends on the speed and pressure range;
This pressure range is between 10 bar and pressure value P1.

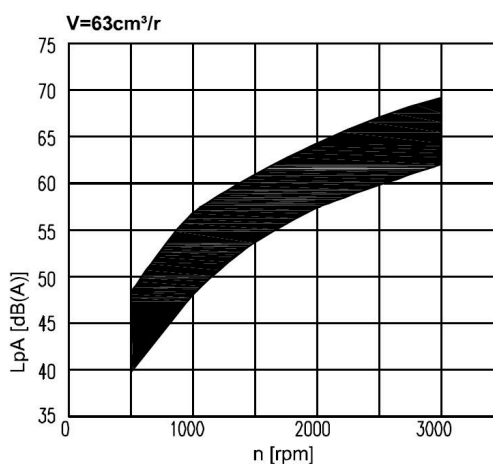
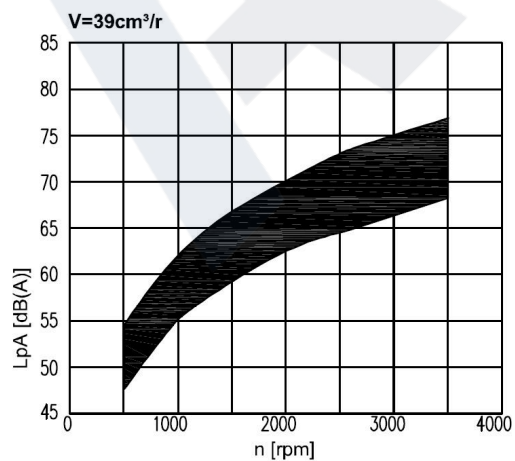
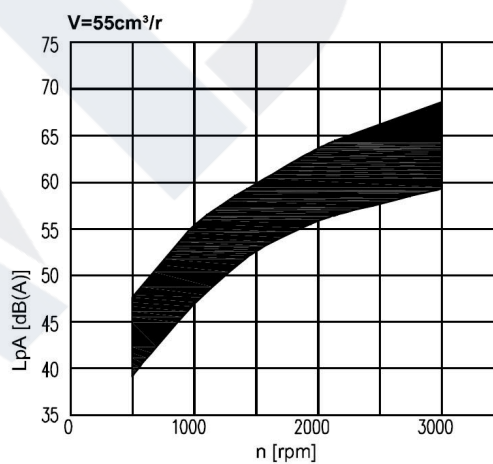
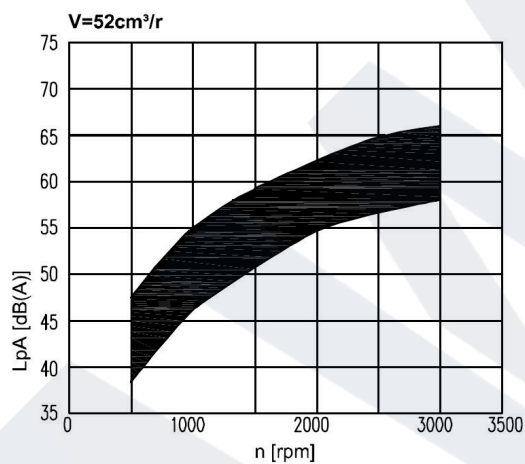
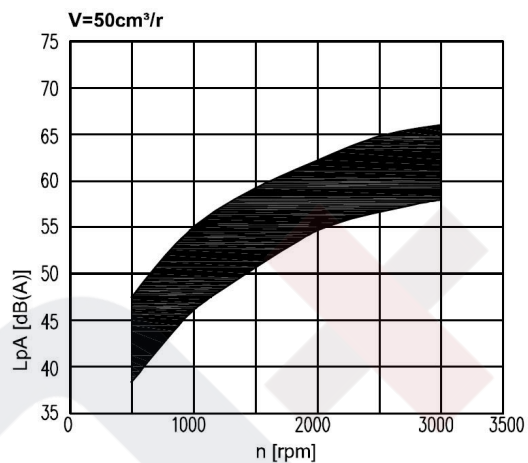
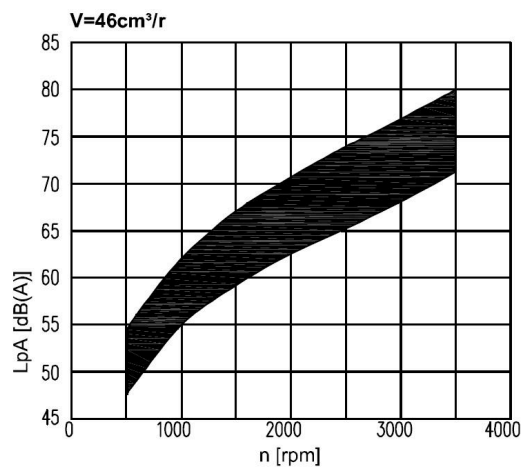
Oil data: $v=32 \text{ mm}^2/\text{s}$, $\theta=50^\circ\text{C}$.

The sound pressure level obtained by calculating
the noise value measured
from the sound absorption measuring room meets
the requirements
of Chapter 26 of DIN 45635.

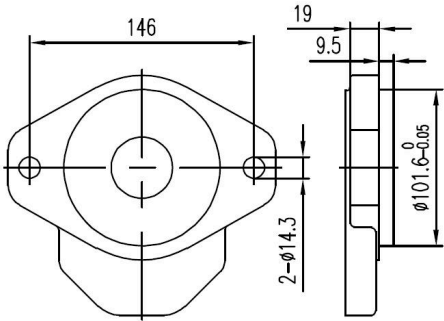
Distance between measuring sensor
and hydraulic pump: 1 m.



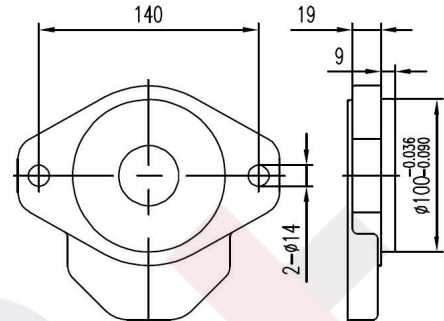
Noise Curve Table



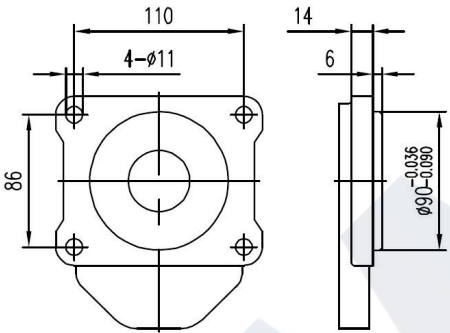
Front cover



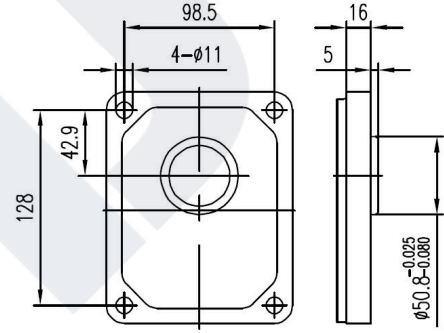
A0



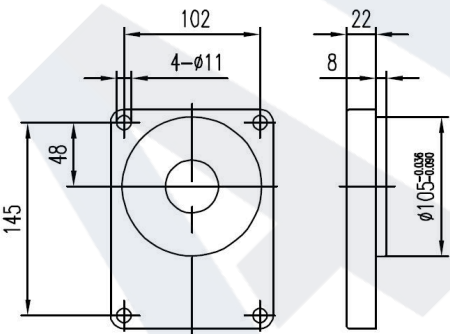
A1



B0

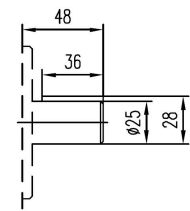


B1



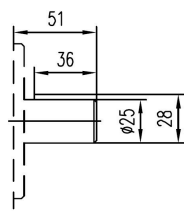
B2

Shafts



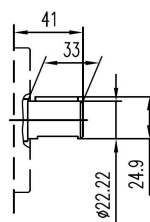
C0

Max. Torque 450 Nm



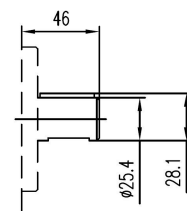
C1

Max. Torque 450 Nm



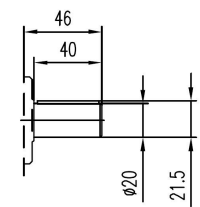
C2

Max. Torque 400 Nm



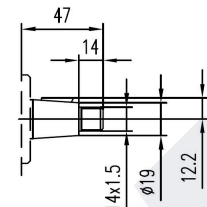
C3

Max. Torque 450 Nm



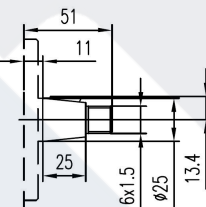
C4

Max. Torque 350 Nm



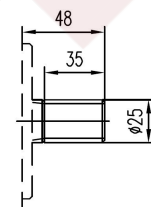
T0

Max. Torque 300 Nm



T1

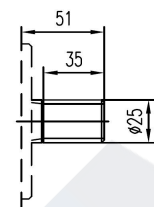
Max. Torque 350 Nm



Л 6-25x20.1x6

H0

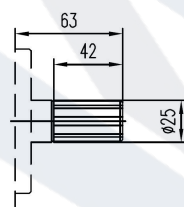
Max. Torque 500 Nm



Л 6-25x20.1x6

H1

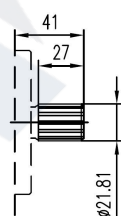
Max. Torque 500 Nm



Л 6-25x21x5

H2

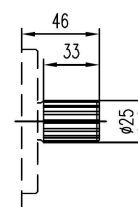
Max. Torque 500 Nm



DP16/32-30'-13T

S0

Max. Torque 500 Nm

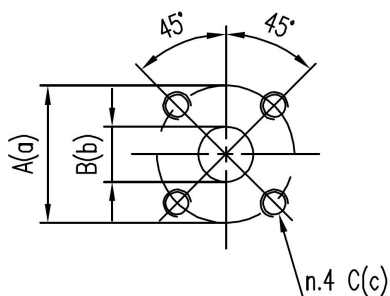


DP16/32-30'-15T

S1

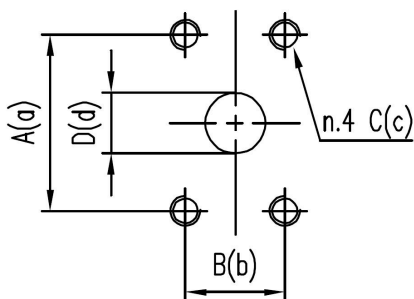
Max. Torque 600 Nm

Ports



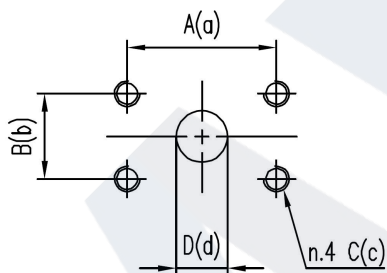
F0/F1/F2/F3

PORTS CODE	Displacement (cm ³ /rev)	INLET			OUTLET		
		A	B	C	a	b	c
F0	20...26	50	20	M8	50	20	M8
F1	33...46	65	25	M8	65	20	M8
F2	50...71	76	33	M10	76	25	M10
F3	50...63	76	33	M8	76	25	M8



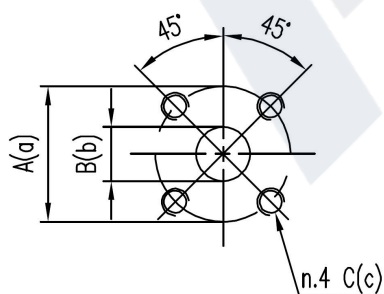
F4/F5

PORTS CODE	Displacement (cm ³ /rev)	INLET				OUTLET			
		A	B	C	D	a	b	c	d
F4	20...52	52.4	26.2	3/8-16UNC	27	47.6	22.2	3/8-16UNC	19
F5	55...71	58.7	30.2	7/16-14UNC	33	52.4	26.2	3/8-16UNC	27



F6

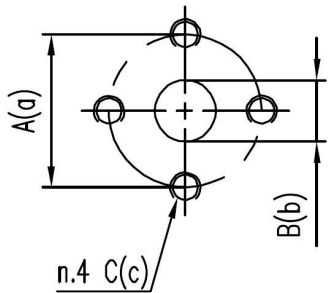
Displacement (cm ³ /rev)	INLET				OUTLET			
	A	B	C	D	a	b	c	d
20...25	52.2	26	M10	25	57.2	26	M10	20
33	52.2	26	M10	30	57.2	26	M10	20
39	52.2	26	M10	35	57.2	26	M10	20
50...63	52.2	26	M10	35	57.2	26	M10	25



F7

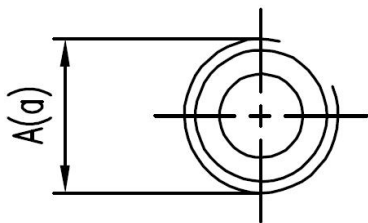
Displacement (cm ³ /rev)	INLET			OUTLET		
	A	B	C	a	b	c
20...71	55	27	M8	55	19	M8

Ports



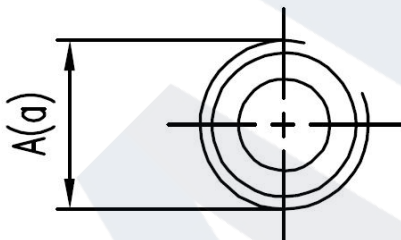
E0/E1/E2/E3

PORTS CODE	Displacement (cm ³ /rev)	INLET			OUTLET		
		A	B	C	a	b	c
E0	20...39	56	27	M10	56	19	M10
E1	46	51	27	M10	51	27	M10
E2	50...52	56	27	M10	56	27	M10
E3	55...71	62	33	M10	51	27	M10



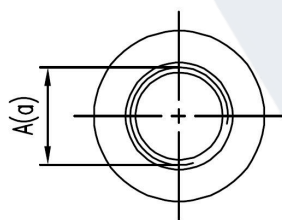
L0/L1/L2/L3

PORTS CODE	Displacement (cm ³ /rev)	INLET	OUTLET
		A	a
L0	20...22	G3/4	G3/4
L1	26...39	G 1	G3/4
L2	46...63	G1 1/4	G 1
L3	71	G1 1/2	G1 1/4



R0/R1/R2/R3

PORTS CODE	Displacement (cm ³ /rev)	INLET	OUTLET
		A	a
R0	20...22	PT3/4	PT3/4
R1	26...39	PT 1	PT3/4
R2	46...63	PT1 1/4	PT 1
R3	71	PT1 1/2	PT1 1/4

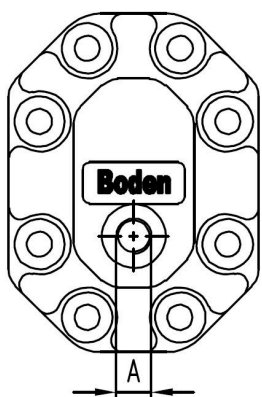


O-ring

U0/U1/U2

PORTS CODE	Displacement (cm ³ /rev)	INLET	OUTLET
		A	a
U0	20...33	1 5/16-12UNF	1 1/16-12UNF
U1	39...52	1 5/8-12UNF	1 1/16-12UNF
U2	55...71	1 7/8-12UNF	1 5/16-12UNF

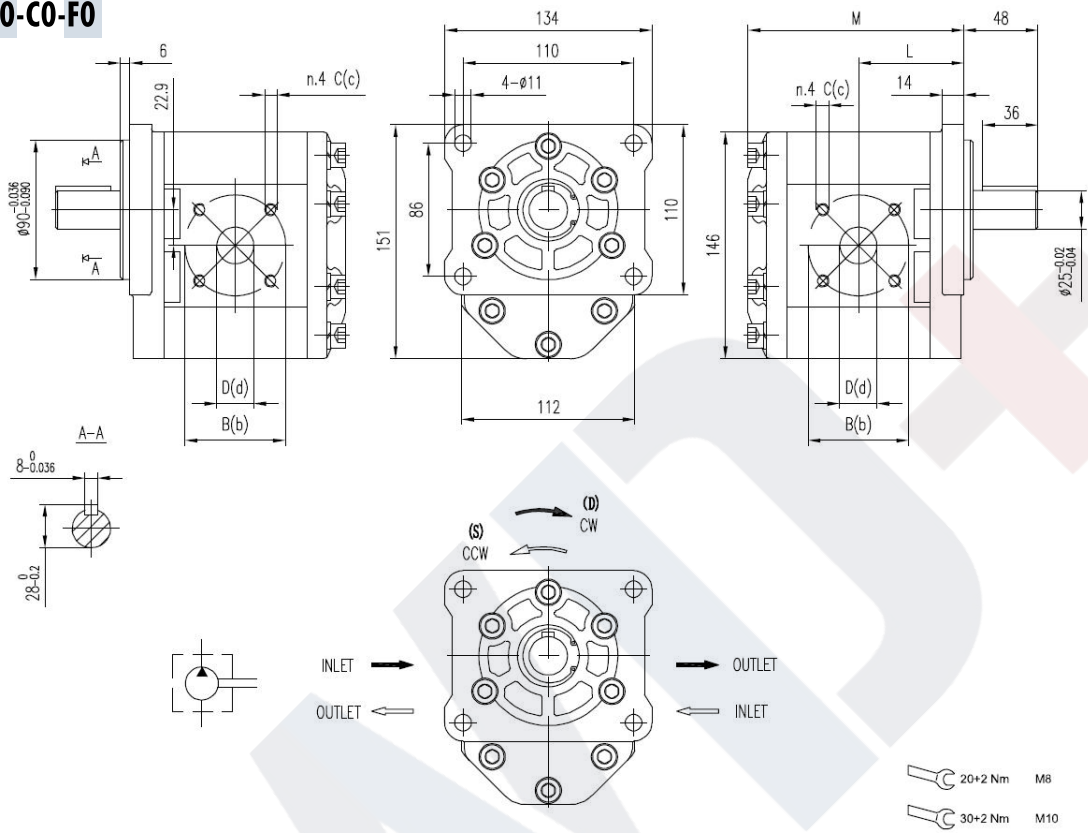
Special structure



CODE	oil drain
	A
Q1	G3/8
Q2	3/4-16UNF

Standard Product Dimensions

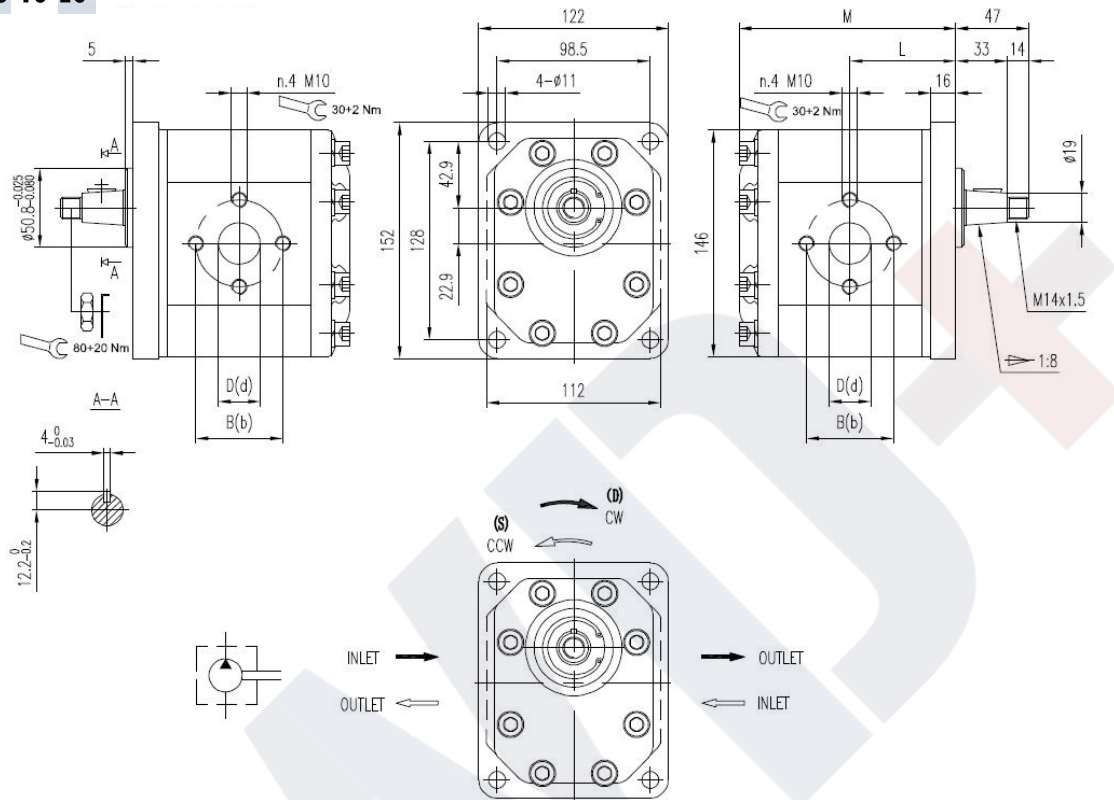
BHP3-B0-D-20-C0-F0



Displacement (cm ³ /rev)	Max. pressure			Max. speed (r/min)	Min. speed (r/min)	Weight Kg	Dimensions		Oil port code	INLET			OUTLET		
	P1 bar	P2 bar	P3 bar				M mm	L mm		B mm	D mm	C	b mm	d mm	c
20	250	265	280	3500	600	7.5	128	63	F0	50	20	M8	50	20	M8
22	250	265	280	3500	600	7.7	130	64	F0	50	20	M8	50	20	M8
26	250	265	280	3000	600	8.1	133	65	F0	50	20	M8	50	20	M8
33	230	250	270	3000	500	8.6	139	68	F1	65	25	M8	65	20	M8
39	230	250	270	3000	500	9.1	146	72	F1	65	25	M8	65	20	M8
46	230	250	270	3000	500	9.6	152	75	F1	65	25	M8	65	20	M8
50	220	240	260	3000	500	10.0	156	77	F2	76	33	M10	76	25	M10
52	220	240	260	3000	500	10.2	158	78	F2	76	33	M10	76	25	M10
55	200	230	250	2800	400	10.5	160	79	F2	76	33	M10	76	25	M10
63	200	230	250	2800	400	11.1	168	83	F2	76	33	M10	76	25	M10
71	180	200	220	2500	400	11.8	175	86	F2	76	33	M10	76	25	M10

Standard Product Dimensions

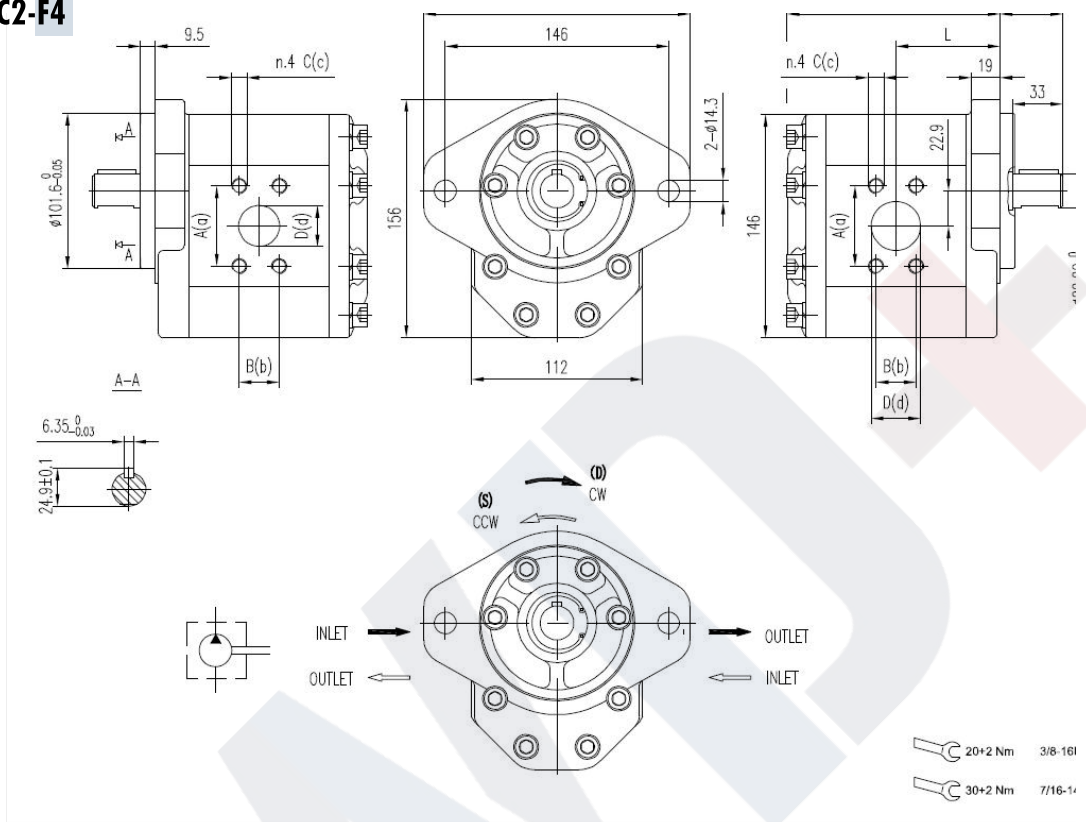
BHP3-B1-D-20-T0-E0



Displacement (cm ³ /rev)	Max. pressure			Max. speed (r/min)	Min. speed (r/min)	Weight Kg	Dimensions		Oil port code	INLET		OUTLET	
	P1 bar	P2 bar	P3 bar				M mm	L mm		B mm	D mm	b mm	d mm
20	250	265	280	3500	600	7.5	128	63	E0	56	27	56	19
22	250	265	280	3500	600	7.7	130	64	E0	56	27	56	19
26	250	265	280	3000	600	8.1	133	65	E0	56	27	56	19
33	230	250	270	3000	500	8.6	139	68	E0	56	27	56	19
39	230	250	270	3000	500	9.1	146	72	E0	56	27	56	19
46	230	250	270	3000	500	9.6	152	75	E1	51	27	51	27
50	220	240	260	3000	500	10.0	156	77	E2	56	27	56	27
52	220	240	260	3000	500	10.2	158	78	E2	56	27	56	27
55	200	230	250	2800	400	10.5	160	79	E3	62	33	51	27
63	200	230	250	2800	400	11.1	168	83	E3	62	33	51	27
71	180	200	220	2500	400	11.8	175	86	E3	62	33	51	27

Standard Product Dimensions

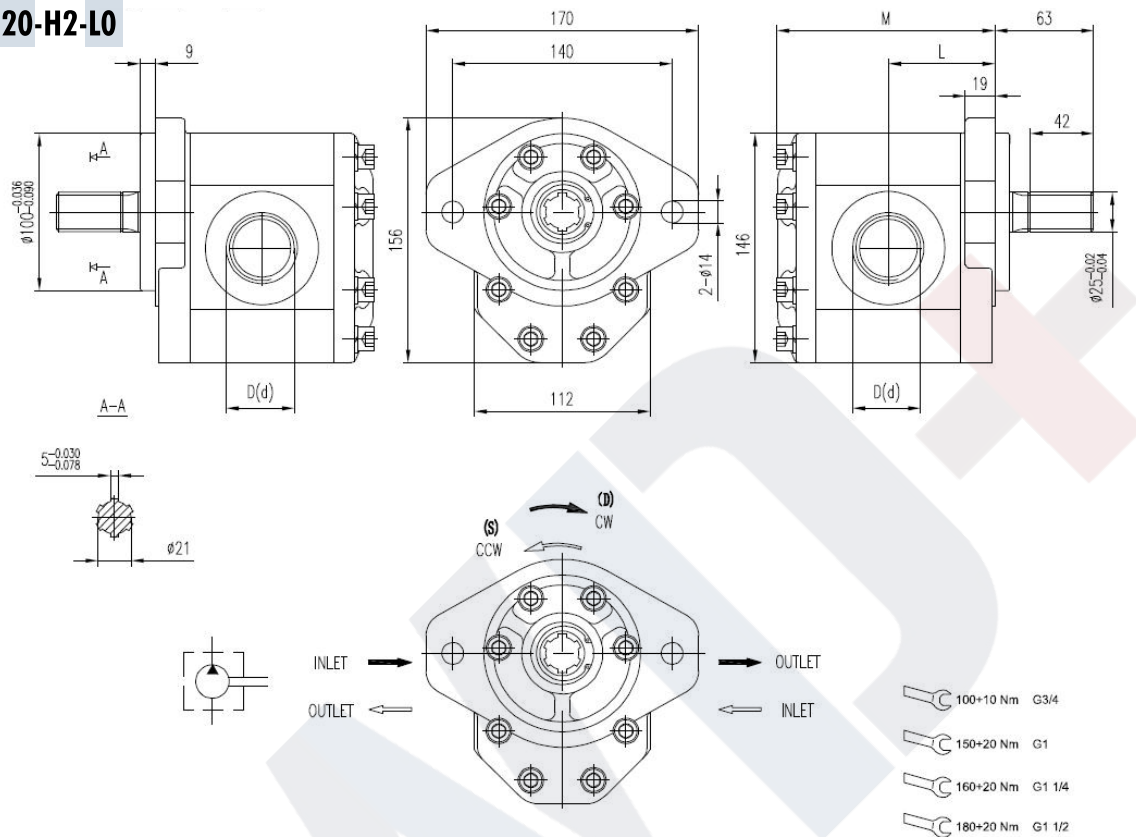
BHP3-A0-D-20-C2-F4



Displacement (cm ³ /rev)	Max. pressure			Max. speed (r/min)	Min. speed (r/min)	Weight Kg	Dimensions		Oil port code	INLET				OUTLET			
	P1 bar	P2 bar	P3 bar				M mm	L mm		A mm	B mm	C UNC	D mm	a mm	b mm	c UNC	d mm
20	250	265	280	3500	600	7.5	128	63	F4	52.4	26.2	3/8	27	47.6	22.2	3/8	19
22	250	265	280	3500	600	7.7	130	64	F4	52.4	26.2	3/8	27	47.6	22.2	3/8	19
26	250	265	280	3000	600	8.1	133	65	F4	52.4	26.2	3/8	27	47.6	22.2	3/8	19
33	230	250	270	3000	500	8.6	139	68	F4	52.4	26.2	3/8	27	47.6	22.2	3/8	19
39	230	250	270	3000	500	9.1	146	72	F4	52.4	26.2	3/8	27	47.6	22.2	3/8	19
46	230	250	270	3000	500	9.6	152	75	F4	52.4	26.2	3/8	27	47.6	22.2	3/8	19
50	220	240	260	3000	500	10.0	156	77	F4	52.4	26.2	3/8	27	47.6	22.2	3/8	19
52	220	240	260	3000	500	10.2	158	78	F4	52.4	26.2	3/8	27	47.6	22.2	3/8	19
55	200	230	250	2800	400	10.5	160	79	F5	58.7	30.2	7/16	33	52.4	26.2	3/8	27
63	200	230	250	2800	400	11.1	168	83	F5	58.7	30.2	7/16	33	52.4	26.2	3/8	27
71	180	200	220	2500	400	11.8	175	86	F5	58.7	30.2	7/16	33	52.4	26.2	3/8	27

Standard Product Dimensions

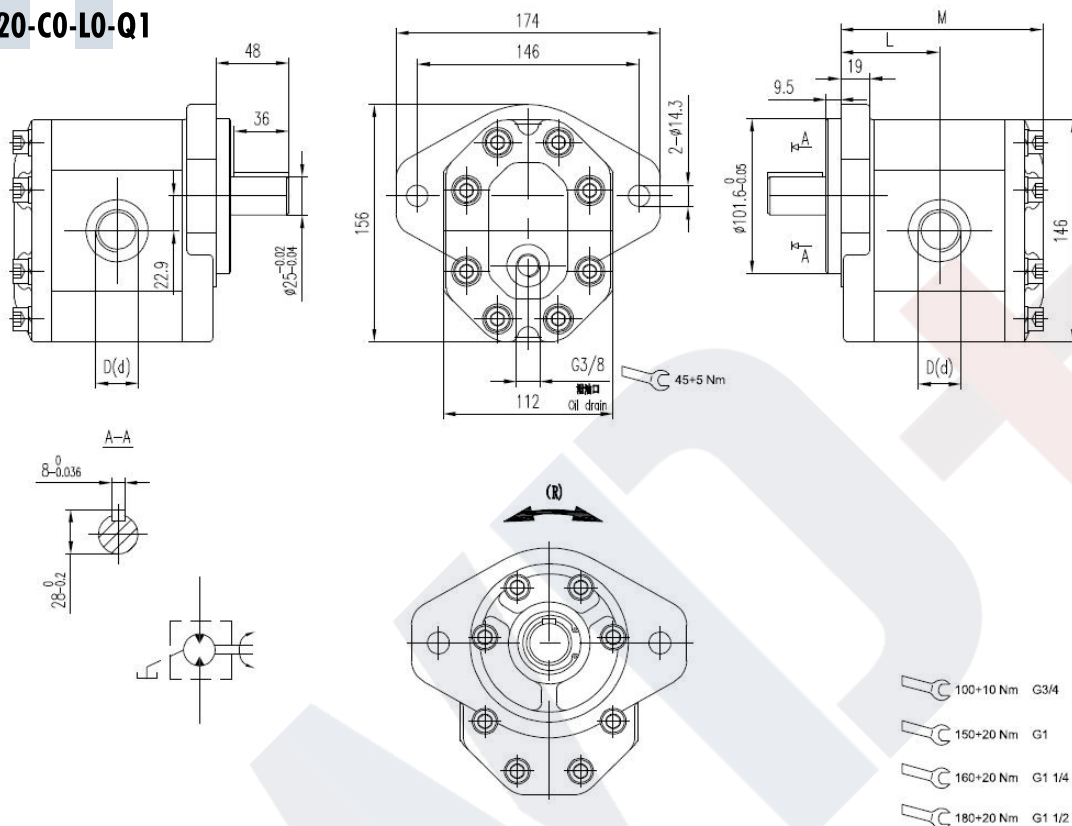
BHP3-A1-D-20-H2-L0



Displacement (cm ³ /rev)	Max. pressure			Max. speed (r/min)	Min. speed (r/min)	Weight Kg	Dimensions		Oil port code	INLET D	OUTLET d
	P1 bar	P2 bar	P3 bar				M mm	L mm			
20	250	265	280	3500	600	7.5	128	63	L0	G3/4	G3/4
22	250	265	280	3500	600	7.7	130	64	L0	G3/4	G3/4
26	250	265	280	3000	600	8.1	133	65	L1	G1	G3/4
33	230	250	270	3000	500	8.6	139	68	L1	G1	G3/4
39	230	250	270	3000	500	9.1	146	72	L1	G1	G3/4
46	230	250	270	3000	500	9.6	152	75	L2	G1 1/4	G1
50	220	240	260	3000	500	10.0	156	77	L2	G1 1/4	G1
52	220	240	260	3000	500	10.2	158	78	L2	G1 1/4	G1
55	200	230	250	2800	400	10.5	160	79	L2	G1 1/4	G1
63	200	230	250	2800	400	11.1	168	83	L2	G1 1/4	G1
71	180	200	220	2500	400	11.8	175	86	L3	G1 1/2	G1 1/4

Standard Product Dimensions

BHM3-A0-R-20-C0-L0-Q1



Displacement (cm ³ /rev)	Max. pressure			Max. speed (r/min)	Min. speed (r/min)	Weight Kg	Dimensions		Oil port code	INLET D	OUTLET d
	P1 bar	P2 bar	P3 bar				M mm	L mm			
20	250	265	280	3500	600	7.5	128	63	L0	G3/4	G3/4
22	250	265	280	3500	600	7.7	130	64	L0	G3/4	G3/4
26	250	265	280	3000	600	8.1	133	65	L1	G1	G3/4
33	230	250	270	3000	500	8.6	139	68	L1	G1	G3/4
39	230	250	270	3000	500	9.1	146	72	L1	G1	G3/4
46	230	250	270	3000	500	9.6	152	75	L2	G1 1/4	G1
50	220	240	260	3000	500	10.0	156	77	L2	G1 1/4	G1
52	220	240	260	3000	500	10.2	158	78	L2	G1 1/4	G1
55	200	230	250	2800	400	10.5	160	79	L2	G1 1/4	G1
63	200	230	250	2800	400	11.1	168	83	L2	G1 1/4	G1
71	180	200	220	2500	400	11.8	175	86	L3	G1 1/2	G1 1/4