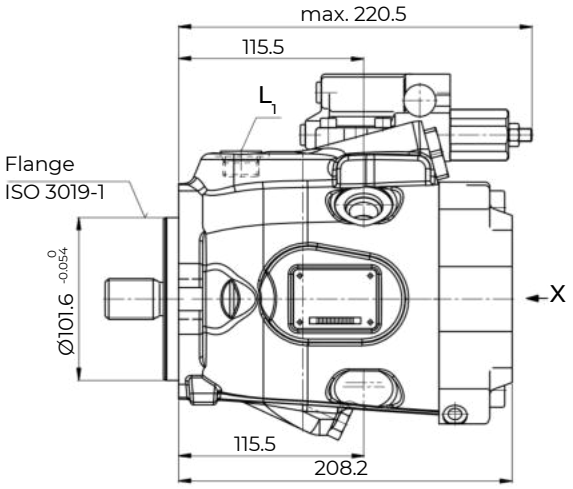
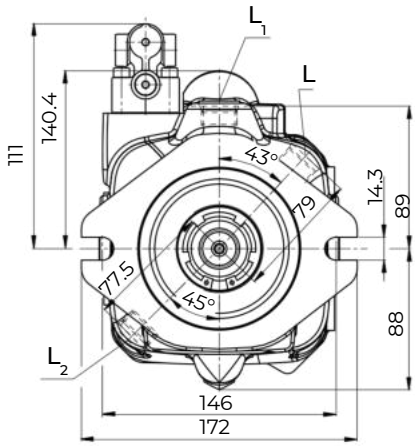
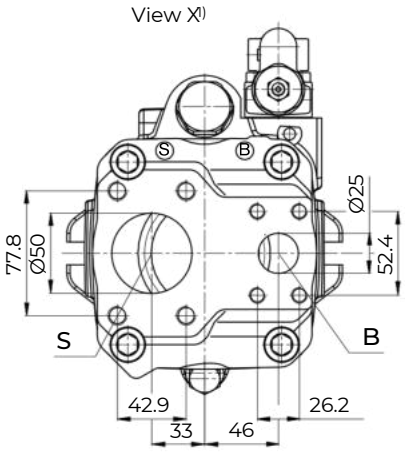
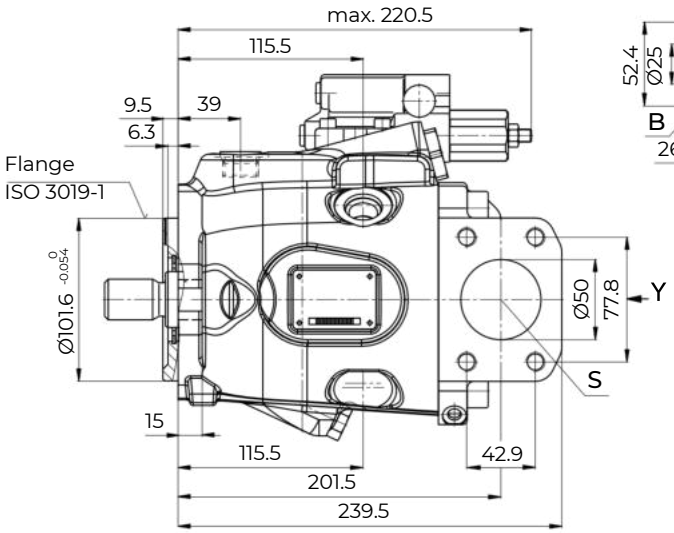
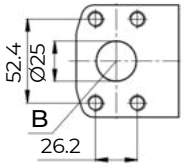
PR – Hydraulic pressure controller, clockwise rotation, mounting flange C,53

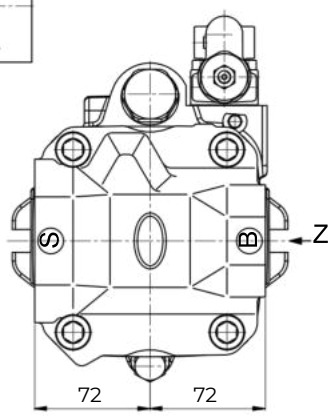








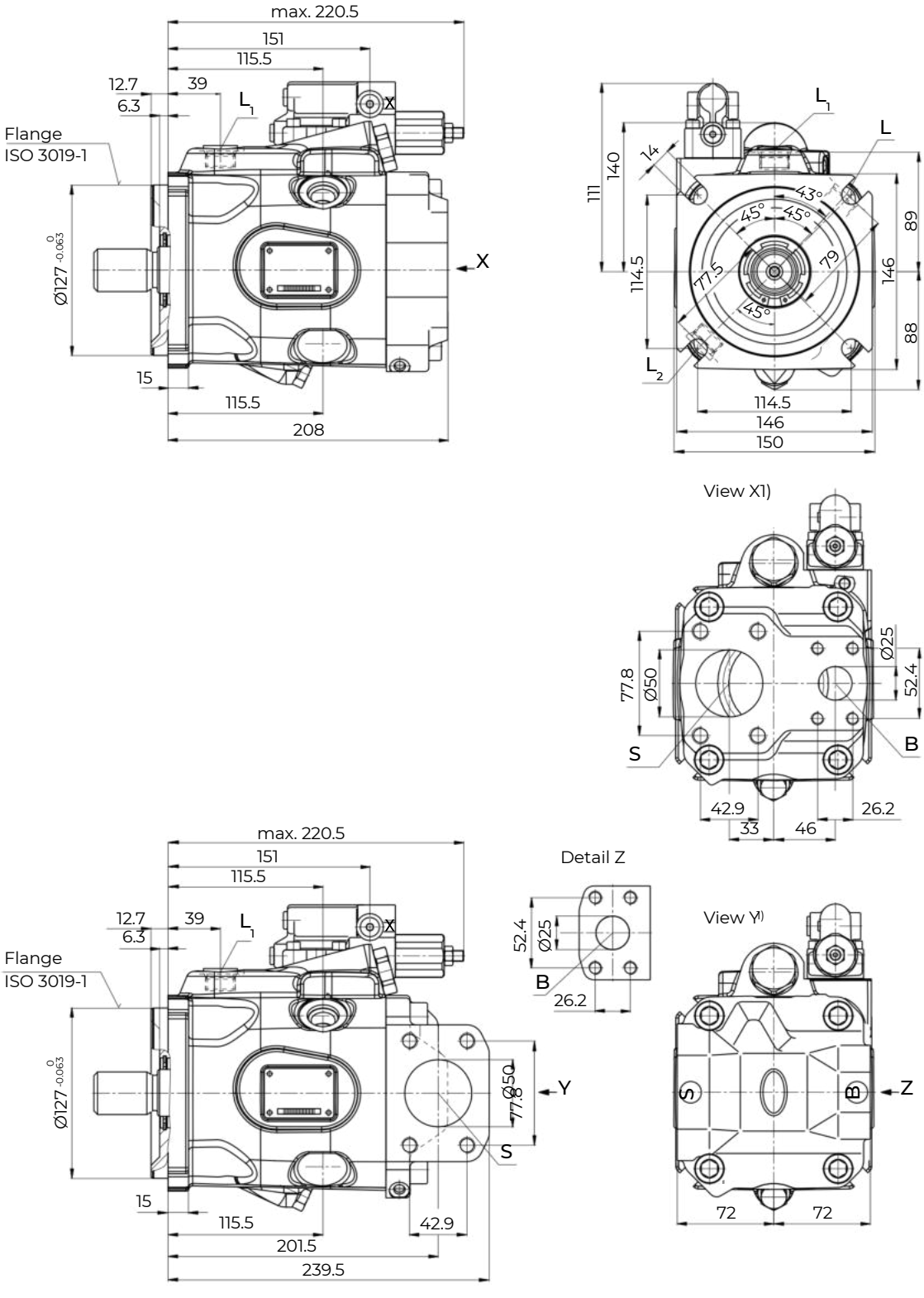




Dimensions Size;

HA10VO53-63cc

PR – Hydraulic pressure controller, clockwise rotation, mounting flange D,53



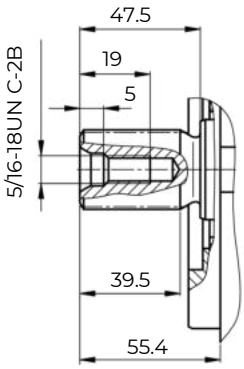
RE 92703/2023-07-11

Dimensions Size;

HA10VO53-63cc

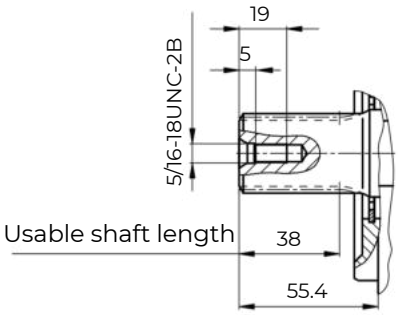
▾ Splined shaft 1 1/4 in SAE J744

S – 14T 12/24DP1)



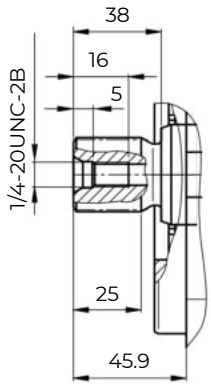
▾ Splined shaft 1 1/4 in SAE J744

R – 14T 12/24DP1)2)



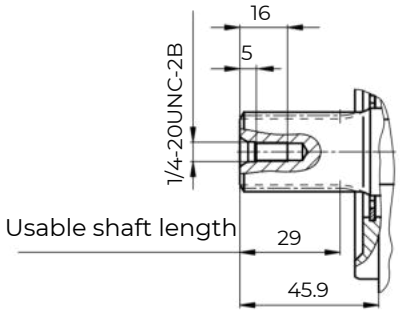
▾ Splined shaft 1 in SAE J744

U – 15T 16/32DP1)



▾ Splined shaft 1 in SAE J744

W – 15T 16/32DP1)



-Technical Data

Size		NG		10	18	28	45	60	63	72	85	100
Displacement, geometric, per revolution		$V_{g\,max}$	cm³	10.5	18	28	45	60	63	72	85	100
Speed maximum	at V_g max	n_{nom}	rpm	3600	3300	3000	2600	2700	2600	2600	2500	2300
	at $V_g < V_{g\,max}$	$n_{max\,perm.}$	rpm	4320	3960	3600	3120	3140	3140	3140	3000	2500
Flow	at n_{nom} and $V_{g\,max}$	$q_{v\,max}$	l/min	37	59	84	117	162	163	187	212	230
	at n_E= 1500 rpm	$q_{vE\,max}$	l/min	15	27	42	68	90	95	108	128	150
Power	at n_{nom}, $V_{g\,max}$ Δp = 250 bar	P_{max}	kW	16	25	35	49	65	68	77	89	96
	at n_E= 1500 rpm	$P_{E\,max}$	kW	7	11	18	28	37	39	45	53	62
Torque	at $V_{g\,max}$ Δp = 250 bar	T_{max}	Nm	42	71	111	179	238	250	286	338	398
	at $V_{g\,max}$ Δp = 100 bar	T	Nm	17	29	45	72	95	100	114	135	159
Rotary stiffness of drive shaft	S	c	Nm/rad	9200	11000	22300	37500	65500	65500	65500	143000	143000
	R	c	Nm/rad	-	14800	26300	41000	69400	69400	69400	152900	-
	U	c	Nm/rad	6800	8000	16700	30000	49200	49200	49200	102900	102900
	W	c	Nm/rad	-	-	19900	34400	54000	54000	54000	117900	117900
	P	c	Nm/rad	10700	-	-	-	-	-	-	-	-
Moment of inertia for rotary group		J_{TW}	kgm²	0.0006	0.0009	0.0017	0.003	0.0056	0.0056	0.0056	0,012	0,012
Maximum angular acceleration		α	rad/s²	8000	6800	5500	4000	3300	3300	3300	2700	2700
Case volume		V	l	0.2	0.25	0.3	0.5	0.8	0.8	0.8	1	1
Weight without through drive (approx.)		m	kg	8	11.5	15	18	22	22	22	36	36
Weight with through drive (approx.)				-	13	18	24	28	28	28	45	45

HA10VO53: Ordering Code and Specifications Table

Type Code	Displacement (cm3)	Rotation	Version	Sealing	Control	Ports	Mounting Flange	Shaft	Through Drive
HA10VO53	**28,45,63,60**	**Right, Left** (cw,ccw)	**Special Classic** (S,C)	**Nitrile, Viton** (N,V)	**LS-X** **PR-R** **LS-C** **PT-L** **PR**	**Side Metric** **Side Unf** **Rear Metric** **Rear Unf** (SM,SUN, RM, RUN)	**2H** (ISO-3019-1) (SAE2 Hole)	**Standart** (S) **High Torque** (T)	**T01** **T58** **T68** **T04** **T07**

LS-X	Load Sensing X Decompression
LS-C	Load Sensing Closed
PR-R	Pressure Remote
PT-L	Pressure Torque Limiter
PR	Hydraulic Pressure Control

28 cc	●	●			
45 cc		●	●		
60 cc			●	●	●
63 cc			●	●	●
	11T	**13T**	**15T**	**14T**	**K32-1**

	Through Drive			Flange	Shaft
T01	●	●	●	**SAEA2**	5/8" 9T 16/32 DP
T52	●	●	●	**SAEA2**	3/4" 11T 16/32 DP
T68	●	●	●	**SAEB2**	7/8" 13T 16/32 DP
T04	●	●	●	**SAEB2**	1" 15T 16/32 DP
T07			●	**SAEC2**	1 1/4" 14T 12/24 DP
	28	**45**	**63**		