



**WECHAT**



**WEB**

# Welcome to HEARKEN

## Actuators and Controls

**Hearken  
Here We  
Can**

### The Trusted, Passionate and focused Partner in Valve Automation

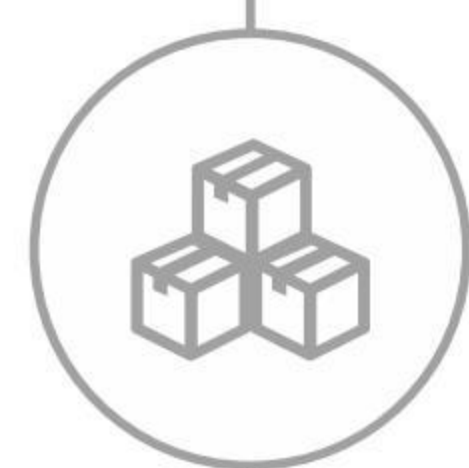
At HEARKEN FLOW, The founding principle of Hearkenflow is simple: to Listen our customers needs first, to develop the innovative valve actuators solutions , to meet the unique needs of our customers, Along the way, To help our customers to solve the problems in Valve Automation. We are growing our brand in Pneumatic and Electric Actuators, Accessories..



**IP68**



Experienced team



Large inventory



Convenient consultation

### WHY WE ARE DIFFERENT

We offer a complete valve automation solution by the applications experience and customization capabilities, with an experienced support team to guide you in selection, installation, and project support. In addition we maintain an extensive supply of product inventory on hand so that we can quickly fulfill orders and reduce wait times. Our sales and support staff are readily available and accessible so that customers get the answers they need quickly.

### THE TARGET WE ARE PURSUING



High-quality



low cost



Reliable solution

- To built A strong Reputation in Providing Quality, Cost Effective , Reliable And Robust Performance Solutions for Valve Automation,
- Included Pneumatic Actuators, Electrically Actuators, Actuated Valves.



### COMMITMENT TO QUALITY

At HEARKEN FLOW means performance, All products manufactured by HEARKEN FLOW are warranted against defects in material and workmanship for a period of 18 months from the day of startup. Each of our products are tested at the factory. we are confident that our products meet or exceed all applicable standards before they ever leave our facility. We are an ISO 9001-2008 certified company. Our Valve Actuators Has Applied for SIL3 Certificate, ATEX Certificate ,CE, Explosion-proof Certificate, IP68 Weather proof etc....



# HPAS Series Pneumatic Actuator

## — Rack Pinion Design

### Description



Pneumatic actuator is prelubricated and tested to a min one million operations Actuators are available double acting and spring return models, its meet international ISO5211 standards for easy valve mounting and replacement Visual position indicator will monitor the open and closed position.

### Standard Specification



- Movement: Standard adjustable  $90^{\circ} \pm 5\%$
- Lubrication: All moving parts are lubricated for life-long cycle
- Cycle Life: 1,000,000 Operations
- Indicator: Open /Close Disc
- Travel Stops: External adjustable  $\pm 5\%$  in both open/closed position
- Springs: High tensile spring sets of alloy steel
- Piston Shaft: Nickel plated alloy steel reduces friction
- Piston Guides: Self lubricating (Polypropylene + GF) Piston Seals Nitrile\*\*
- Piston: Die casted aluminium dual piston

### Working Pressure



- Standard Temperature:  $-20 \sim +80$  Degree
- Low Temperature:  $-50 \sim +80$  Degree
- High Temperature:  $-15 \sim +150$

### Testing For All Actuators



All actuators manufactured by HEARKEN are individually tested, Testing is carried out to check the leakage in both internal and external, The angle of rotation and Torque values. All bodies are stamped with year, month of production, size and serial number.

## Range of Standard Accessories are Available for Direct Mounting

**1**

Solenoid Valve

**2**

Limit Switchboxes

**3**

Electro-pneumatic Positioner

**4**

Dec clutchable Manual Override Gearbox

**5**

High Visibility Indicator

## Interface Specification



**a**

Drive and Flange to ISO5211 configuration for easy direct mount onto a valve or connection with standardized mounting hardware.



**b**

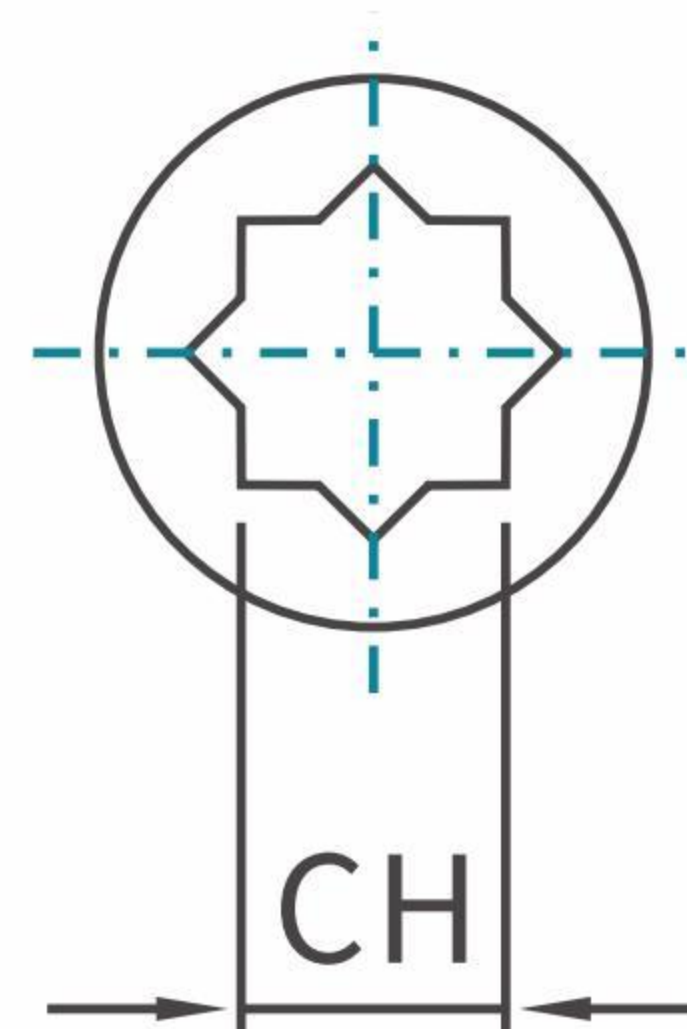
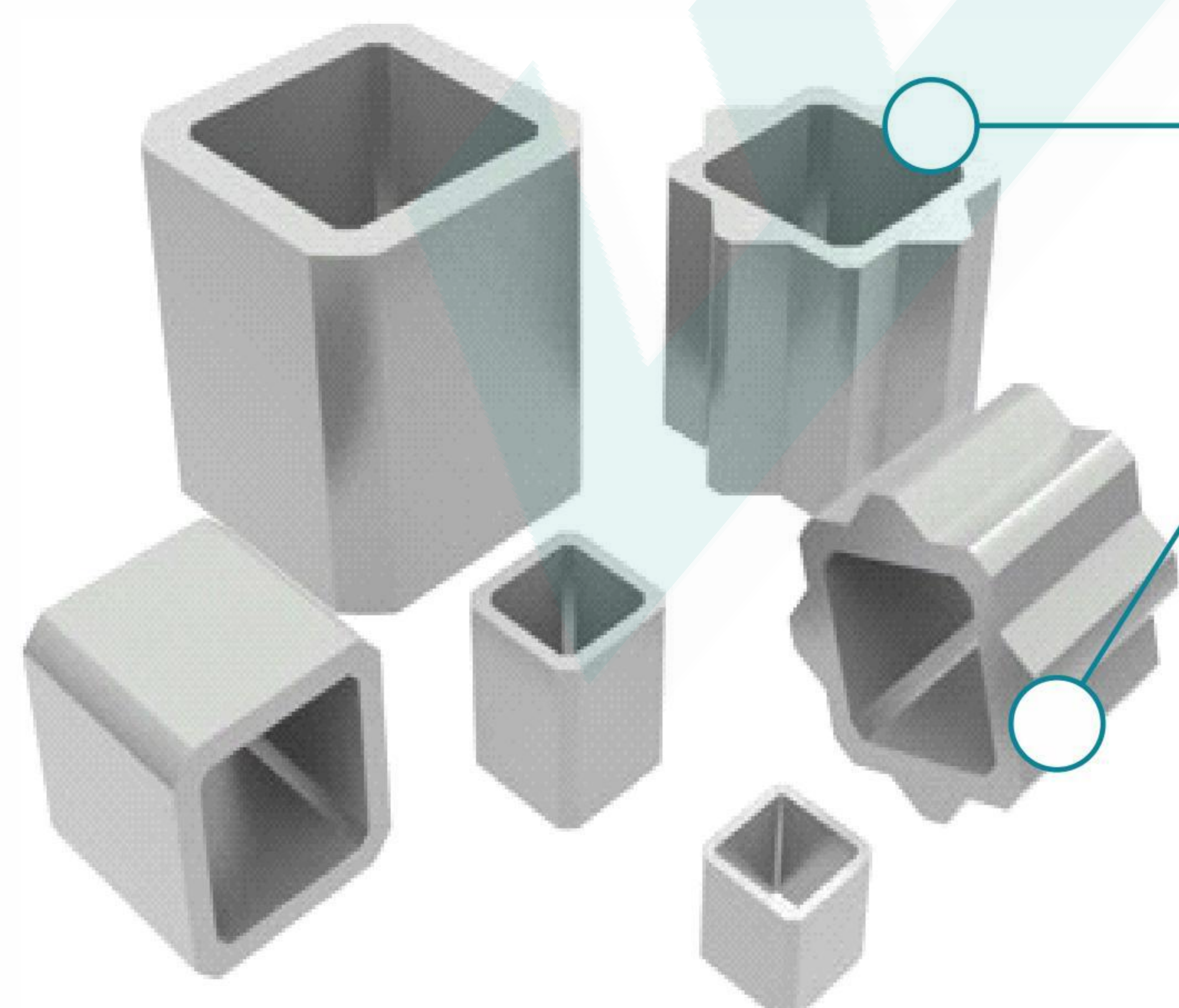
The N AMU R Drive Pinion and NAMU R top mounting connection for direct installation of accessories such as Limit Switch and Positioner.



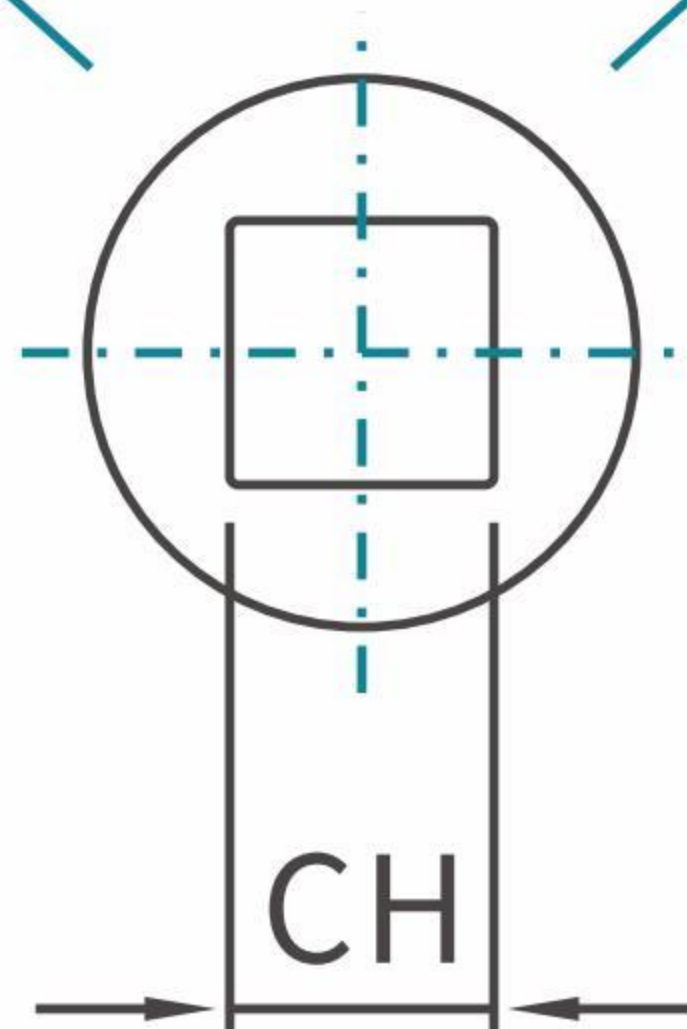
**c**

Air supply connection is designed in accordance with NAMU R Standard to install solenoid valve.

## Bottom View Iso5211



DOUBLE SQUARE

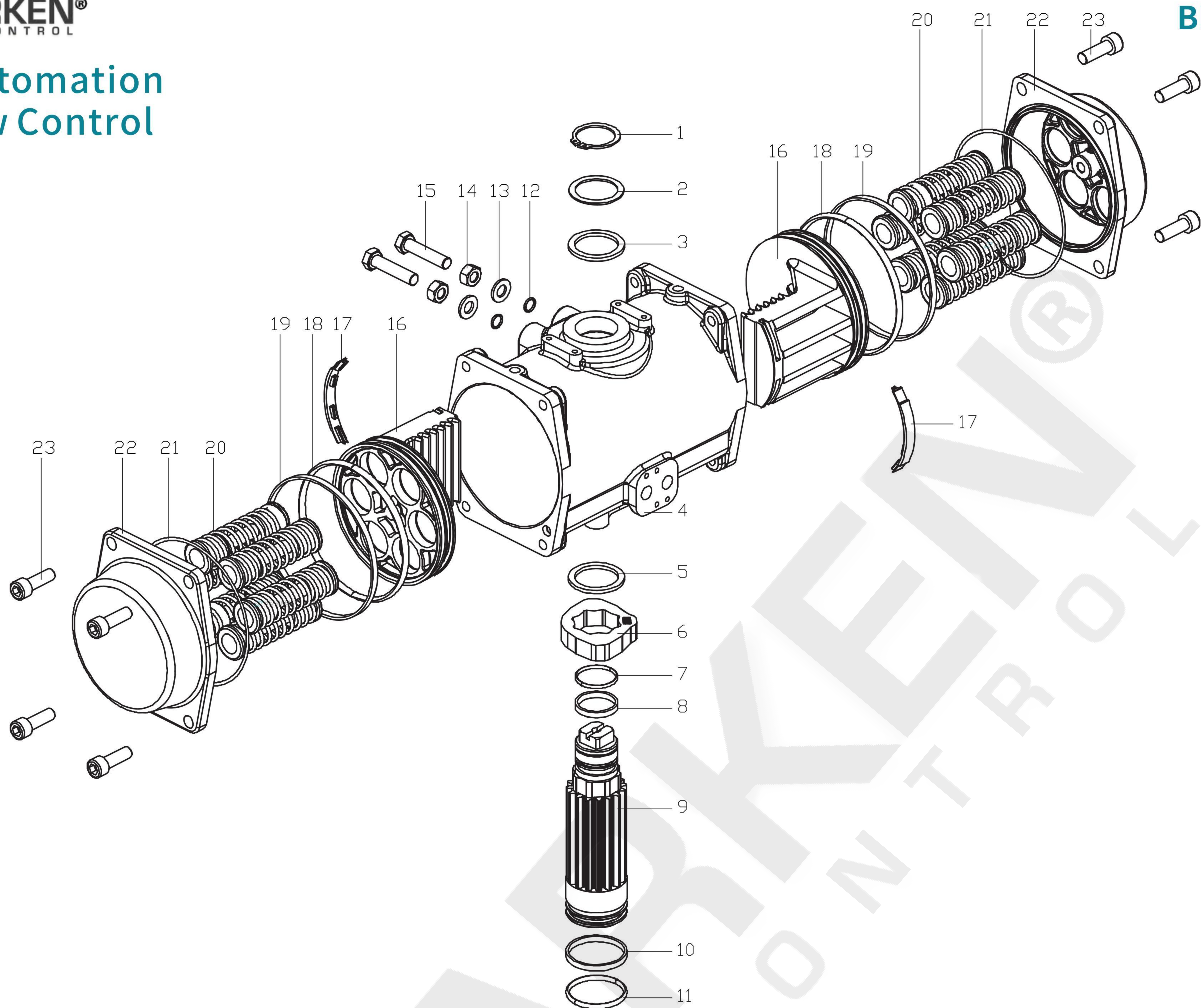


SINGLE SQUARE PARALLEL





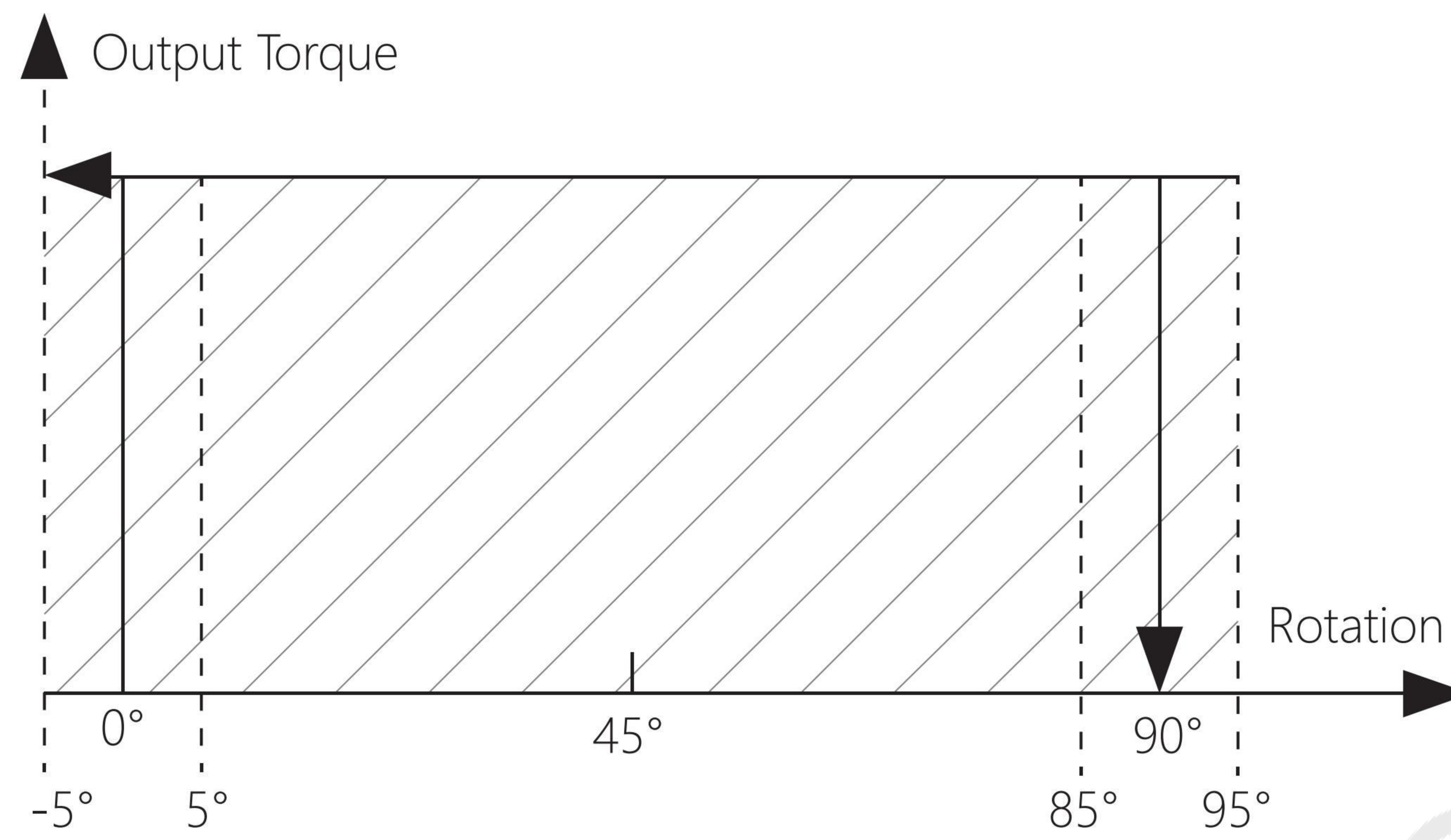
## Valve Automation And Flow Control



No.	Description	Qty.	Standards Material	Optional
1	Spring Clip	1	SUS304	SUS316
2	Thrust Washer	1	SUS304	SUS316
3	Outside Washer	1	Engineering Plastics	
4	Body	1	SUS304	SUS316
5	Inside Washer	1	Engineering Plastics	
6	Cam	1	Forged Steel With Nickel Plated	
7	Bearing(Pinion Top)	1	Engineering Plastics	
8	O-ring(Pinion Top)	1	NBR	Viton/Silicone
9	Pinion	1	SUS304	SUS316
10	Bearing(Pinion bottom)	1	Engineering Plastics	
11	O-ring(Pinion Bottom)	1	NBR	Viton/Silicone
12	O-ring(Adjust Screw)	2	NBR	Viton/Silicone
13	Adjustment Screw Washer	2	SUS304	SUS316
14	Nut(Adjust Screw)	2	SUS304	SUS316
15	Adjust Screw	2	SUS304	SUS316
16	Piston	2	ADC12	
17	Guide(Piston)	2	Engineering Plastics	
18	Bearing(Piston)	2	Engineering Plastics	
19	O-ring(Piston)	2	NBR	Viton/Silicone
20	Spring	0-12	Sprign Steel	
21	O-ring (End Cap)	2	NBR	Viton/Silicone
22	End-Cap	2	SUS304	SUS316
23	Cap Screw	8	SUS304	SUS316



# Output Torque with Double Acting

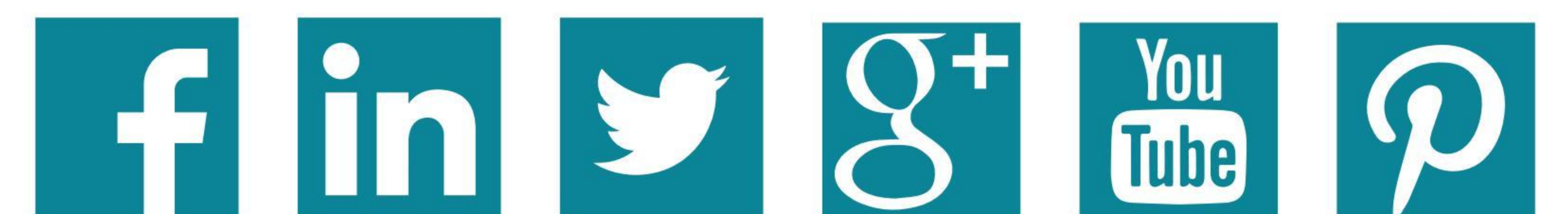


unit: Nm

Model	Air supply pressure (Unit: bar)									
	2	2.5	3	4	4.5	5	5.5	6	7	8
HPAS052	8	10	12	16	18	20	22	24	28	32
HPAS063	15	18	22	29	33	36	40	44	51	58
HPAS075	20	25	30	40	45	50	55	60	70	80
HPAS083	31	39	47	63	70	78	86	94	110	125
HPAS092	45	56	68	90	102	113	124	135	158	181
HPAS105	66	83	99	132	149	165	182	198	231	264
HPAS125	100	125	150	200	226	251	276	301	351	401
HPAS140	171	214	256	342	385	427	470	513	598	684
HPAS160	266	332	399	532	598	665	731	798	931	1064
HPAS190	426	532	638	851	958	1064	1170	1277	1490	1702
HPAS210	532	665	798	1064	1197	1330	1463	1596	1862	2128
HPAS240	769	962	1154	1539	1731	1924	2116	2308	2693	3078
HPAS270	1170	1462	1754	2339	2632	2924	3216	3509	4094	4679



# HEARKEN FLOW



[www.hearkenflow.com](http://www.hearkenflow.com)

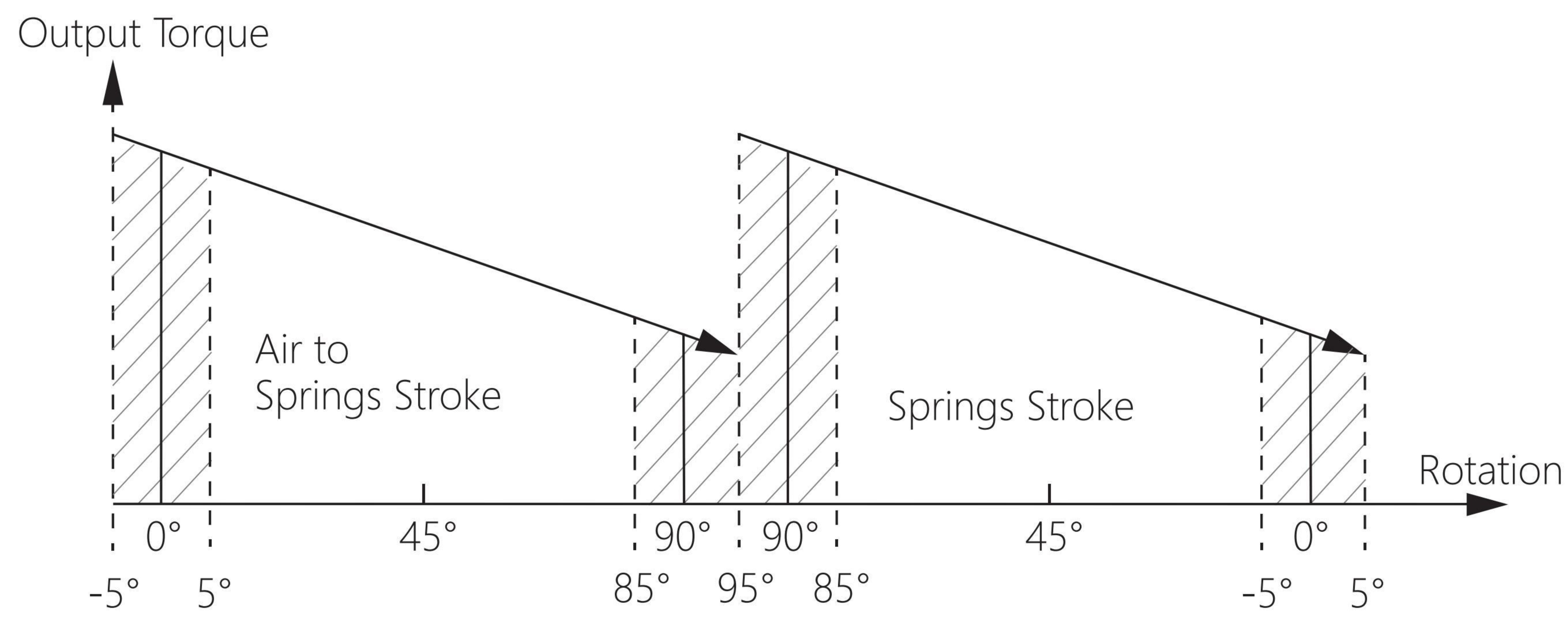


**-Market Leading**

**- Intelligent, Integrated Solutions for Valve Automation**



# Output Torque with Spring Return



unit: Nm

Output torque of air to springs																Springs' output		
Air pressure		2.5BAR		3BAR		4BAR		5BAR		6BAR		7BAR		8BAR		90°		0°
Model	Spring	0°	90°	0°	90°	0°	90°	0°	90°	0°	90°	0°	90°	0°	90°	90°	0°	
	Qty.	Start	End	Start	End	Start	End	Start	End	Start	End	Start	End	Start	End	Start	End	
HPAS052	K5	5.7	3.8	7.6	5.7	/	/	/	/	/	/	/	/	/	/	6.2	4.3	
	K6	4.9	2.5	6.9	4.5	10.9	8.5	/	/	/	/	/	/	/	/	7.4	5	
	K7	4	1.3	6	3.3	9.8	7.3	14	10.4	/	/	/	/	/	/	8.6	5.9	
	K8	/	/	5.2	2	9.2	6	13.2	9.1	17.2	14.1	/	/	/	/	9.9	6.7	
	K9	/	/	4.3	0.8	8.3	4.8	12.3	7.9	16.3	12.8	20.3	16.8	/	/	11.1	7.6	
	K10	/	/	/	/	7.4	3.6	11.5	6.7	15.5	11.6	19.5	15.6	/	/	12.4	8.5	
	K11	/	/	/	/	6.6	2.3	10.6	5.4	14.6	10.4	18.6	14.3	22.6	18.3	13.6	9.3	
	K12	/	/	/	/	/	/	9.7	4.2	13.8	9.1	17.8	12.2	21.8	17.1	14.8	10.2	
HPAS063	K5	11.4	7.7	15	11.4	22.3	14.9	/	/	/	/	/	/	/	/	10.4	6.8	
	K6	10.1	5.7	13.6	9.3	20.9	16.6	28.3	23.9	/	/	/	/	/	/	12.5	8.2	
	K7	8.6	3.6	12.5	7.2	19.5	14.5	26.8	21.9	/	/	/	/	/	/	14.6	9.6	
	K8	/	/	10.9	5.1	18.2	12.4	25.5	19.8	32.8	27	40.1	34.3	/	/	16.7	10.9	
	K9	/	/	/	/	16.8	10.4	24.1	17.7	31.4	24.9	38.7	32.2	/	/	18.8	12.3	
	K10	/	/	/	/	1.4	8.2	22.8	15.6	30	22.8	37.3	30.1	44.7	37.4	20.9	13.7	
	K11	/	/	/	/	/	/	21.5	13.5	28.7	20.7	36	28	43.3	35.3	22.9	15	
	K12	/	/	/	/	/	/	20	11.4	27.3	18.6	34.6	25.9	41.9	33.3	25	16.4	
HPAS075	K5	14.5	10.6	19.4	15.5	29.5	25.7	/	/	/	/	/	/	/	/	14.5	10.5	
	K6	12.4	7.6	17.3	12.6	27.4	22.7	37.5	32.8	/	/	/	/	/	/	17.4	12.7	
	K7	10.4	4.8	15.2	9.7	25.3	19.9	35.4	29.9	/	/	/	/	/	/	20.3	14.8	
	K8	/	/	13.1	6.8	23.1	16.9	33.3	27	43.2	37	53.3	47	/	/	23.2	16.9	
	K9	/	/	/	/	21	14.1	31.2	24.1	41.1	34.1	51.2	44.2	/	/	26.1	19	
	K10	/	/	/	/	19	11.1	28.8	21.2	39	31.2	49.1	41.2	59.1	51.2	29	21.1	
	K11	/	/	/	/	/	/	27	18.3	37	28.3	47	38.4	57	48.4	31.9	23.2	
	K12	/	/	/	/	/	/	24.9	15.4	34.9	25.4	44.9	35.4	54.9	45.4	34.7	25.3	
HPAS083	K5	23.3	16.1	31.1	24	46.8	39.7	/	/	/	/	/	/	/	/	23	15.8	
	K6	20.1	11.5	28	19.3	43.7	35.1	59.4	50.7	/	/	/	/	/	/	27.6	19	
	K7	17	6.9	24.8	14.8	40.5	30.5	56.2	46.2	/	/	/	/	/	/	32.2	22.1	
	K8	/	/	21.7	10.1	37.4	25.8	53.1	41.5	68.8	57.2	84.5	72.9	/	/	36.8	25.3	
	K9	/	/	/	/	34.2	21.3	49.9	37	65.6	52.6	81.2	68.3	/	/	41.4	28.5	
	K10	/	/	/	/	31	16.6	46.7	32.3	62.4	48	78.1	63.7	93.8	79.3	46	31.6	
	K11	/	/	/	/	/	/	43.6	27.7	59.3	43.4	75	59.1	90.6	74.8	50.6	34.8	
	K12	/	/	/	/	/	/	40.4	23.2	56.1	38.9	71.7	54.5	87.4	70.2	55.2	38	
HPAS092	K5	33.1	22	44.2	33.2	66.8	55.9	/	/	/	/	/	/	/	/	34.4	23.3	
	K6	28.4	15.2	39.6	26.4	62.2	49	84.8	71.6	/	/	/	/	/	/	41.2	28	
	K7	23.8	8.2	34.9	19.4	57.5	42.1	80.2	64.7	/	/	/	/	/	/	48.1	32.7	
	K8	/	/	31.3	12.6	52.9	35.2	75.5	57.9	98.1	80.5	120.7	103	/	/	55	37.3	
	K9	/	/	/	/	48.2	28.4	70.9	51	93.5	73.6	116	96.1	/	/	61.9	42	
	K10	/	/	/	/	43.6	21.5	66.2	44.1	88.8	66.7	111.3	89.2	134	111.8	68.7	46.7	
	K11	/	/	/	/	/	/	61.5	37.2	84.1	59.9	106.6	82.4	129.2	105	75.6	51.4	
	K12	/	/	/	/	/	/	56.8	30.4	79.4	53	101.9	75.5	124.5	98.1	82.5	56	
HPAS105	K5	51	33.4	67.5	49.9	100.6	83	/	/	/	/	/	/	/	/	49.2	31.6	
	K6	44.7	23.5	61.1	40	94.2	73.2	127.3	106.2	/	/	/	/	/	/	59.1	38	
	K7	38.4	13.7	54.9	30.3	87.9	63.4	121	96.4	/	/	/	/	/	/	68.9	44.3	
	K8	/	/	48.5	20.4	81.6	53.5	114.7	86.5	147.7	119.6	180.8	152.7	/	/	78.7	50.6	
	K9	/	/	/	/	75.3	43.7	108.4	76.8	141.5	109.8	174.5	142.9	/	/	88.6	56.9	
	K10	/	/	/	/	68.9	33.4	102	66.5	135.1	99.6	168.2	132.6	201.2	165.7	98.4	63.3	
	K11	/	/	/	/	/	/	95.7	57	128.7	90.1	161.8	123.1	194.8	156.2	108.3	69.6	
	K12	/	/	/	/	/	/	89.4	47.5	122.5	80.6	155.5	113.6	188.6	146.7	118.1	75.9	



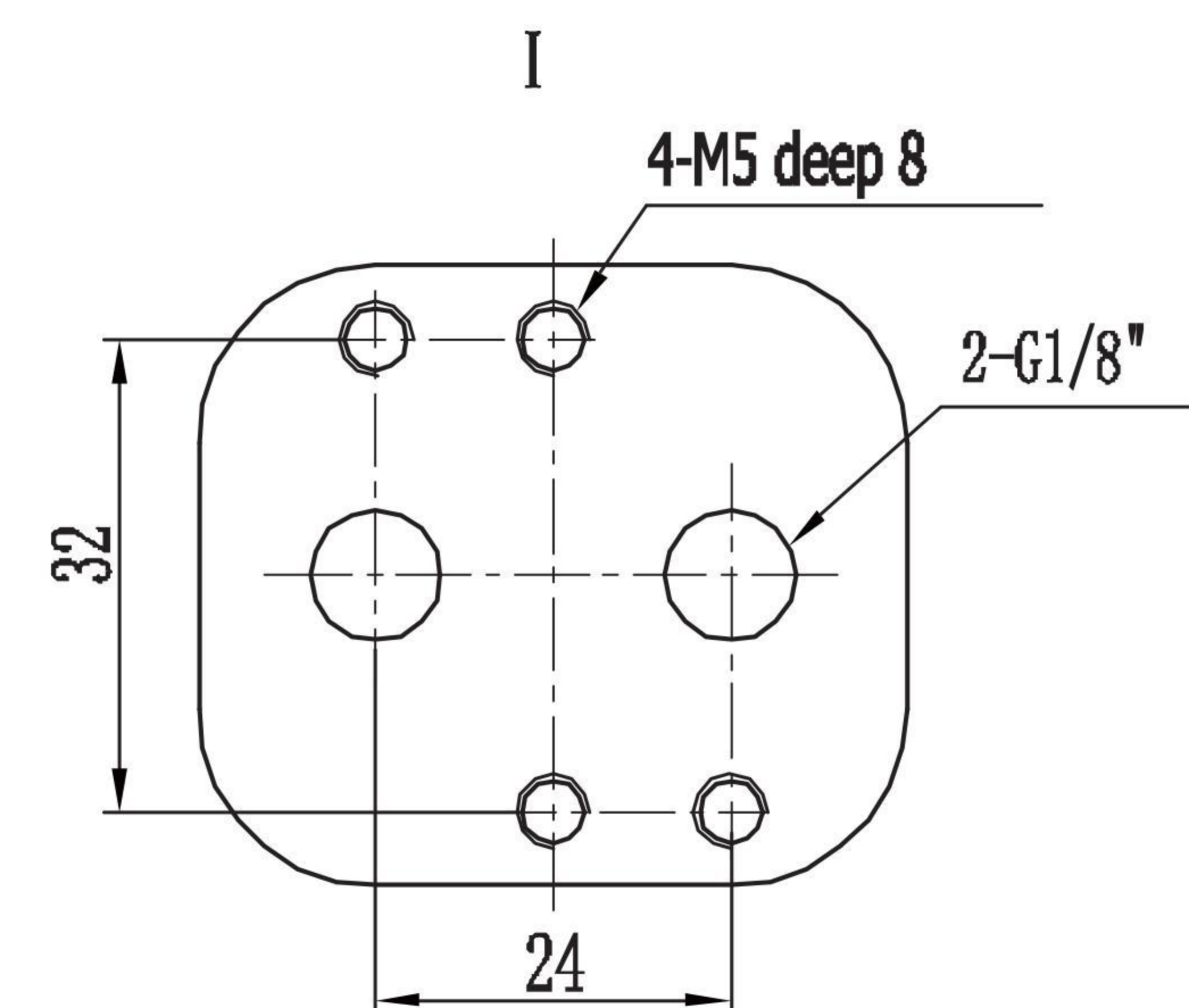
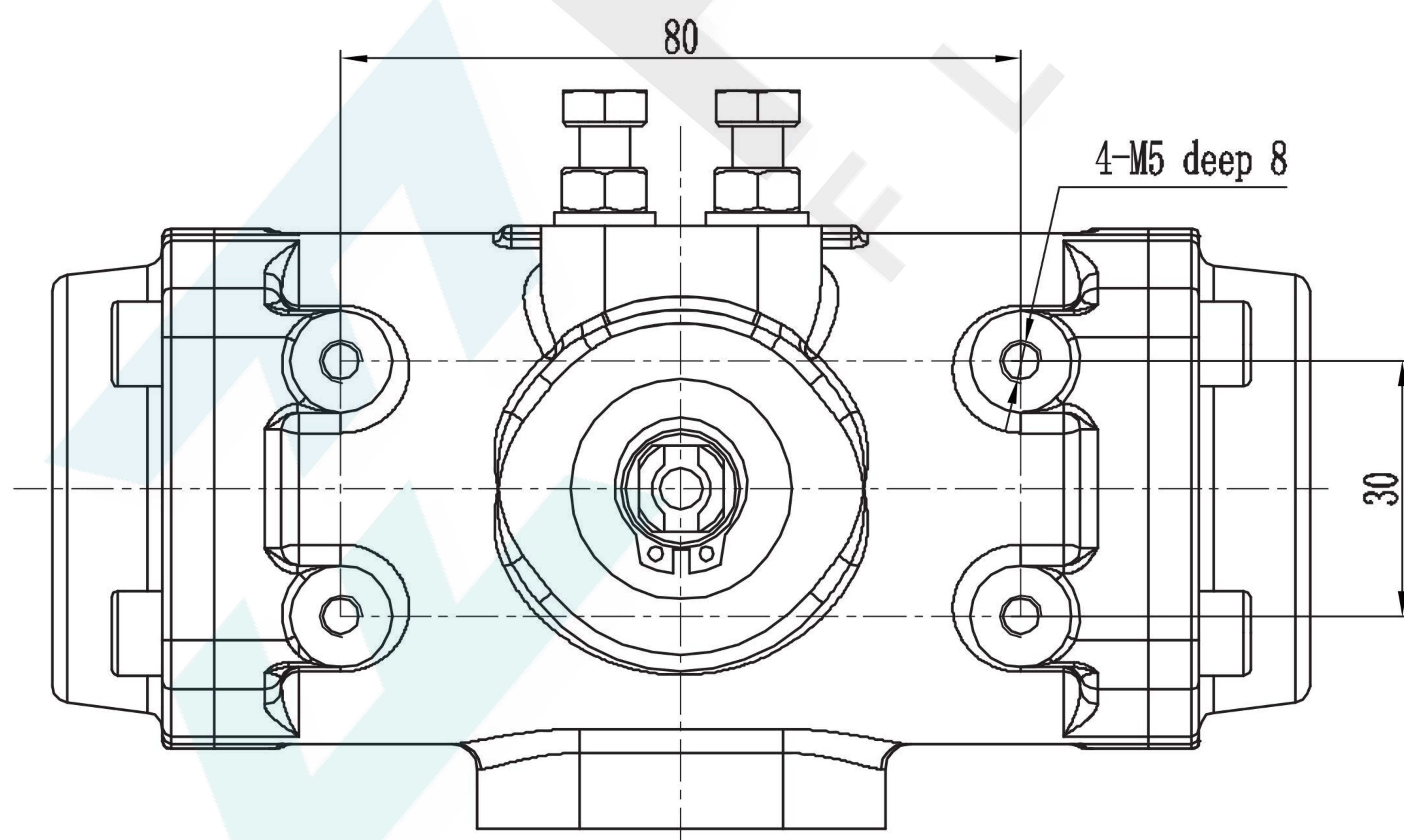
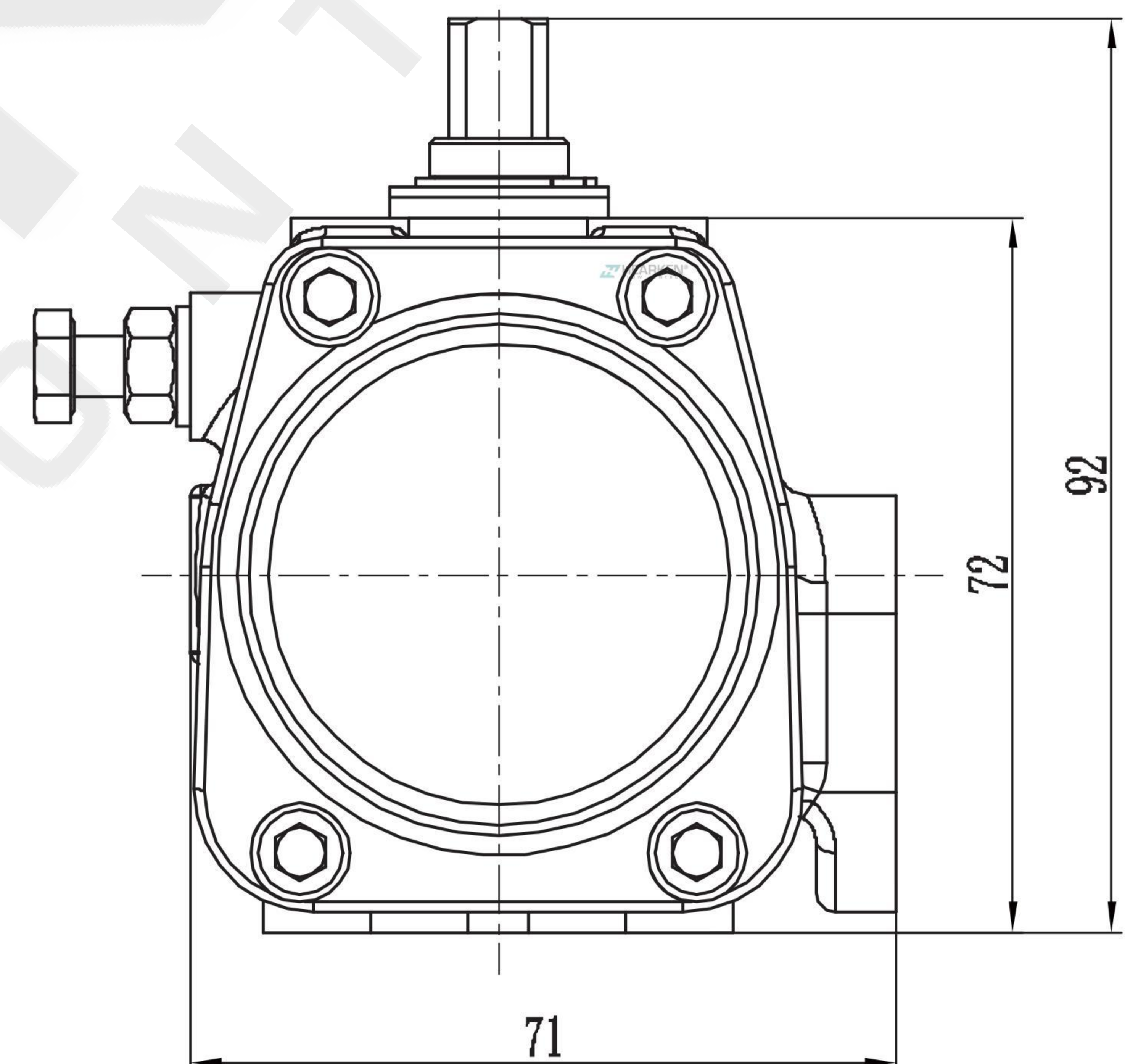
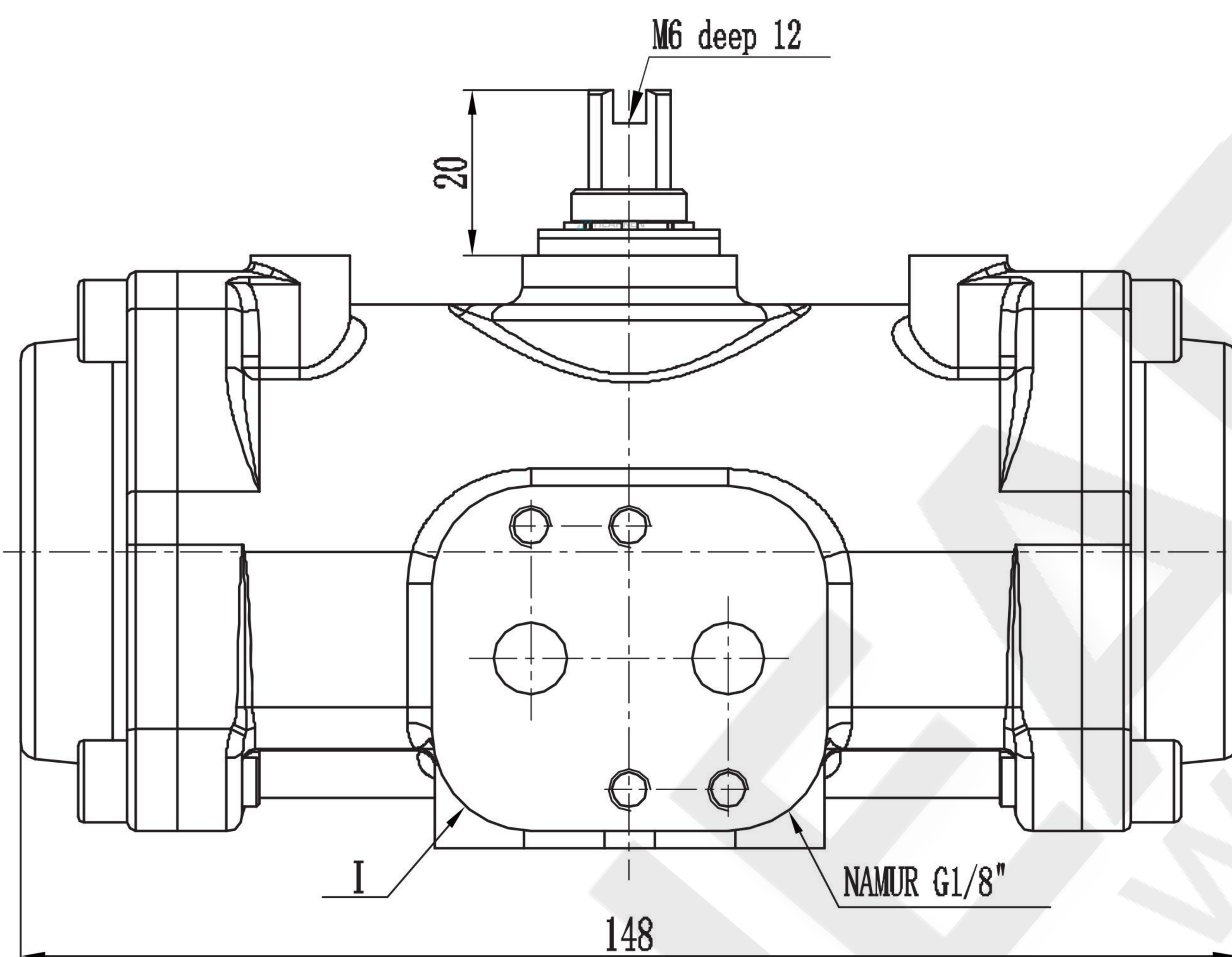
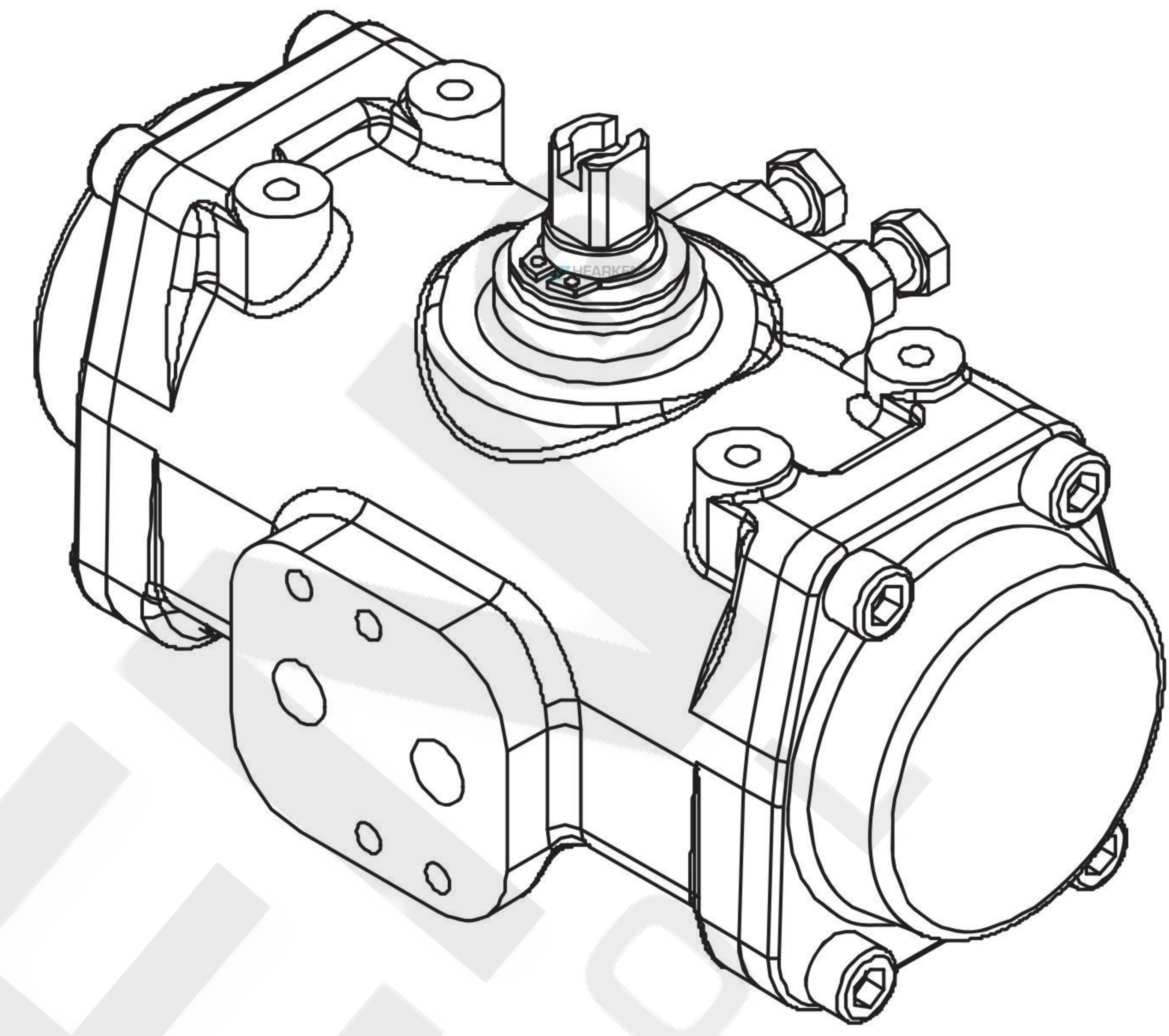
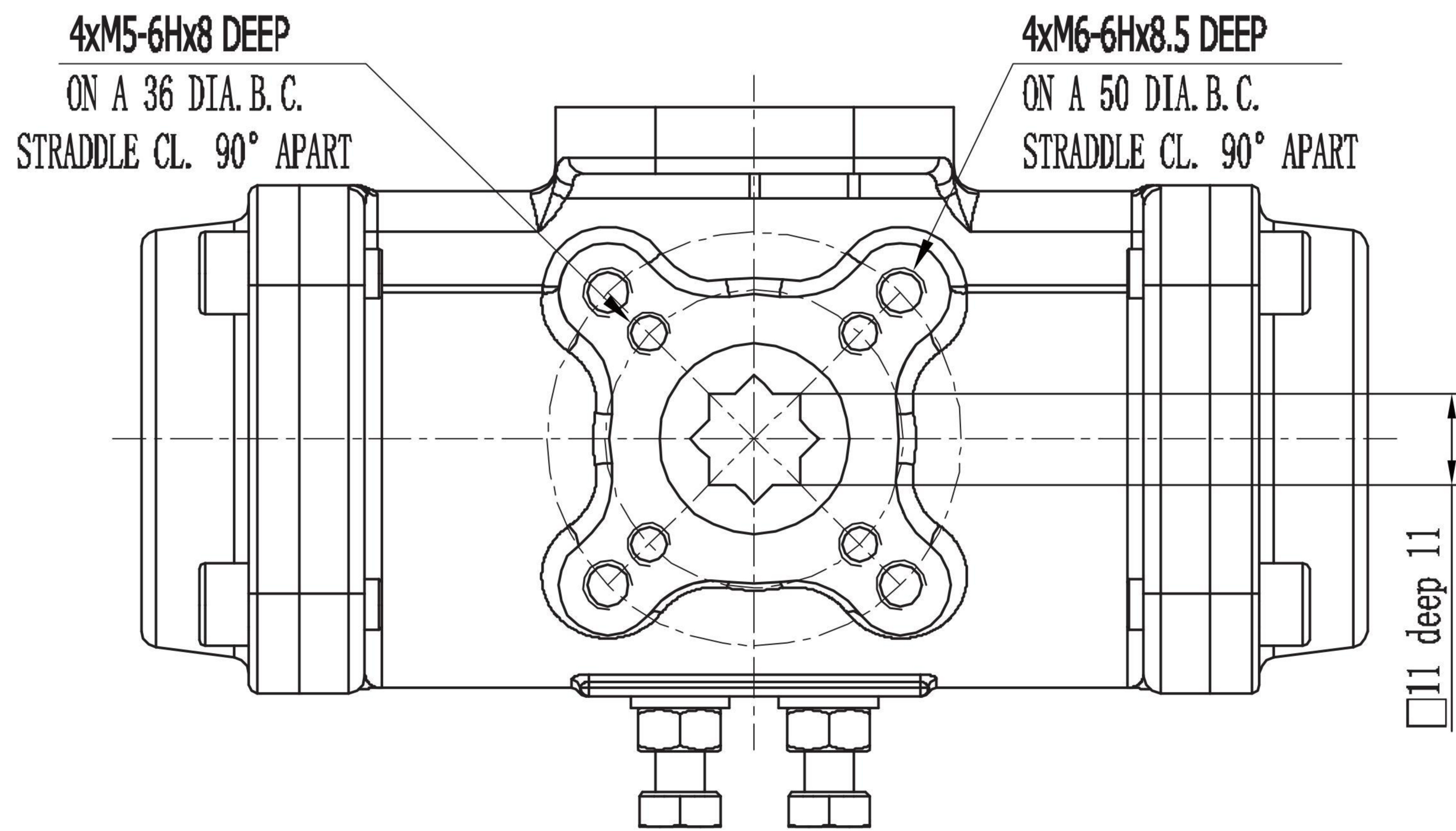
Output torque of air to springs																Springs' output	
Air pressure		2.5BAR		3BAR		4BAR		5BAR		6BAR		7BAR		8BAR			
Model	Spring	0°	90°	0°	90°	0°	90°	0°	90°	0°	90°	0°	90°	0°	90°	90°	0°
	Qty.	Start	End	Start	End	Start	End	Start	End	Start	End	Start	End	Start	End	Start	End
HPAS125	K5	73	47	98	72	148	122	/	/	/	/	/	/	/	/	79	52
	K6	63	31	88	56	138	107	188	157	/	/	/	/	/	/	94	63
	K7	52	15	77	40	127	90	178	141	/	/	/	/	/	/	110	73
	K8	/	/	67	25	117	75	167	125	217	176	268	226	/	/	125	84
	K9	/	/	/	/	107	59	157	109	207	159	257	210	/	/	141	94
	K10	/	/	/	/	96	44	146	94	196	144	247	194	297	245	157	105
	K11	/	/	/	/	/	/	136	78	186	128	236	178	286	228	173	115
	K12	/	/	/	/	/	/	125	63	176	113	226	163	276	213	188	125
HPAS140	K5	128	85	171	127	256	213	/	/	/	/	/	/	/	/	129	86
	K6	111	59	154	102	239	187	325	273	/	/	/	/	/	/	155	103
	K7	94	33	137	76	222	162	308	247	/	/	/	/	/	/	181	120
	K8	/	/	120	50	205	136	291	221	376	307	462	392	/	/	206	137
	K9	/	/	/	/	187	110	273	196	358	281	444	367	/	/	232	155
	K10	/	/	/	/	170	84	256	169	341	255	427	340	512	426	258	172
	K11	/	/	/	/	/	/	238	143	324	229	409	314	495	400	284	189
	K12	/	/	/	/	/	/	221	118	307	203	392	289	478	374	310	206
HPAS160	K5	193	124	259	191	392	324	/	/	/	/	/	/	/	/	208	140
	K6	165	83	232	149	365	282	498	415	/	/	/	/	/	/	250	168
	K7	137	41	203	107	336	240	469	373	/	/	/	/	/	/	292	196
	K8	/	/	176	66	309	199	442	237	575	465	708	598	/	/	333	223
	K9	/	/	/	/	280	157	413	290	546	423	679	556	/	/	375	251
	K10	/	/	/	/	253	115	386	248	519	381	652	514	785	647	417	279
	K11	/	/	/	/	/	/	358	207	491	340	624	473	757	606	458	307
	K12	/	/	/	/	/	/	330	165	463	298	596	431	729	564	500	335
HPAS190	K5	332	222	438	329	651	542	/	/	/	/	/	/	/	/	309	200
	K6	292	161	398	267	611	480	824	693	/	/	/	/	/	/	371	240
	K7	252	99	358	205	571	418	784	631	/	/	/	/	/	/	433	280
	K8	/	/	318	143	531	356	744	569	957	782	1169	995	/	/	495	320
	K9	/	/	/	/	491	295	704	507	917	720	1130	933	/	/	557	360
	K10	/	/	/	/	451	233	664	446	877	658	1090	871	1302	1084	618	400
	K11	/	/	/	/	/	/	624	384	837	597	1050	809	1263	1022	680	440
	K12	/	/	/	/	/	/	584	322	797	535	1010	748	1223	960	742	480
HPAS210	K5	390	285	523	418	789	684	/	/	/	/	/	/	/	/	380	275
	K6	335	209	468	342	734	608	1000	874	/	/	/	/	/	/	456	330
	K7	280	133	413	266	679	532	945	798	/	/	/	/	/	/	532	385
	K8	/	/	358	190	624	456	890	722	1156	988	1422	1254	/	/	608	440
	K9	/	/	/	/	569	380	835	646	1101	912	1367	1178	/	/	684	495
	K10	/	/	/	/	514	304	780	570	1046	836	1312	1102	1578	1368	760	550
	K11	/	/	/	/	/	/	725	494	991	760	1257	1026	1523	1292	836	605
	K12	/	/	/	/	/	/	670	418	936	684	1202	950	1468	1216	912	660
HPAS240	K5	552	409	744	600	1129	985	/	/	/	/	/	/	/	/	554	410
	K6	470	297	662	489	1047	874	1432	1259	/	/	/	/	/	/	665	492
	K7	388	187	580	379	964	764	1349	1149	/	/	/	/	/	/	775	575
	K8	/	/	498	268	883	653	1267	1037	1652	1422	2037	1807	/	/	886	656
	K9	/	/	/	/	800	542	1185	926	1569	1311	1954	1696	/	/	998	739
	K10	/	/	/	/	718	431	1103	816	1488	1201	1872	1586	2257	1970	1108	821
	K11	/	/	/	/	/	/	1021	705	1406	1090	1791	1474	2176	1859	1219	903
	K12	/	/	/	/	/	/	939	594	1323	979	1708	1363	2093	1748	1330	985
HPAS270	K5	903	675	1195	968	1779	1552	/	/	/	/	/	/	/	/	787	560
	K6	790	519	1083	811	1667	1396	2252	1981	/	/	/	/	/	/	943	672
	K7	679	361	972	654	1556	1238	2141	1823	/	/	/	/	/	/	1101	783
	K8	/	/	860	497	1444	1081	2029	1666	2614	2252	3199	2836	/	/	1258	895
	K9	/	/	/	/	1332	923	1917	1509	2502	2094	3087	2678	/	/	1416	1007
	K10	/	/	/	/	1220	767	1805	1352	2390	1937	2974	2521	3560	3107	1572	1119
	K11	/	/	/	/	/	/	1693	1194	2278	1779	2862	2364	3448	2949	1730	1231
	K12	/	/	/	/	/	/	1582	1037	2167	1623	2751	2207	3336	2792	1887	1342

Copyright ownership belongs to shall not be reproduced, copied, or used in other ways without permission otherwise we will have the right to pursue legal responsibilities.



## MODEL HPAS052

### Basic Actuator Outline Dimension (Unit:mm)



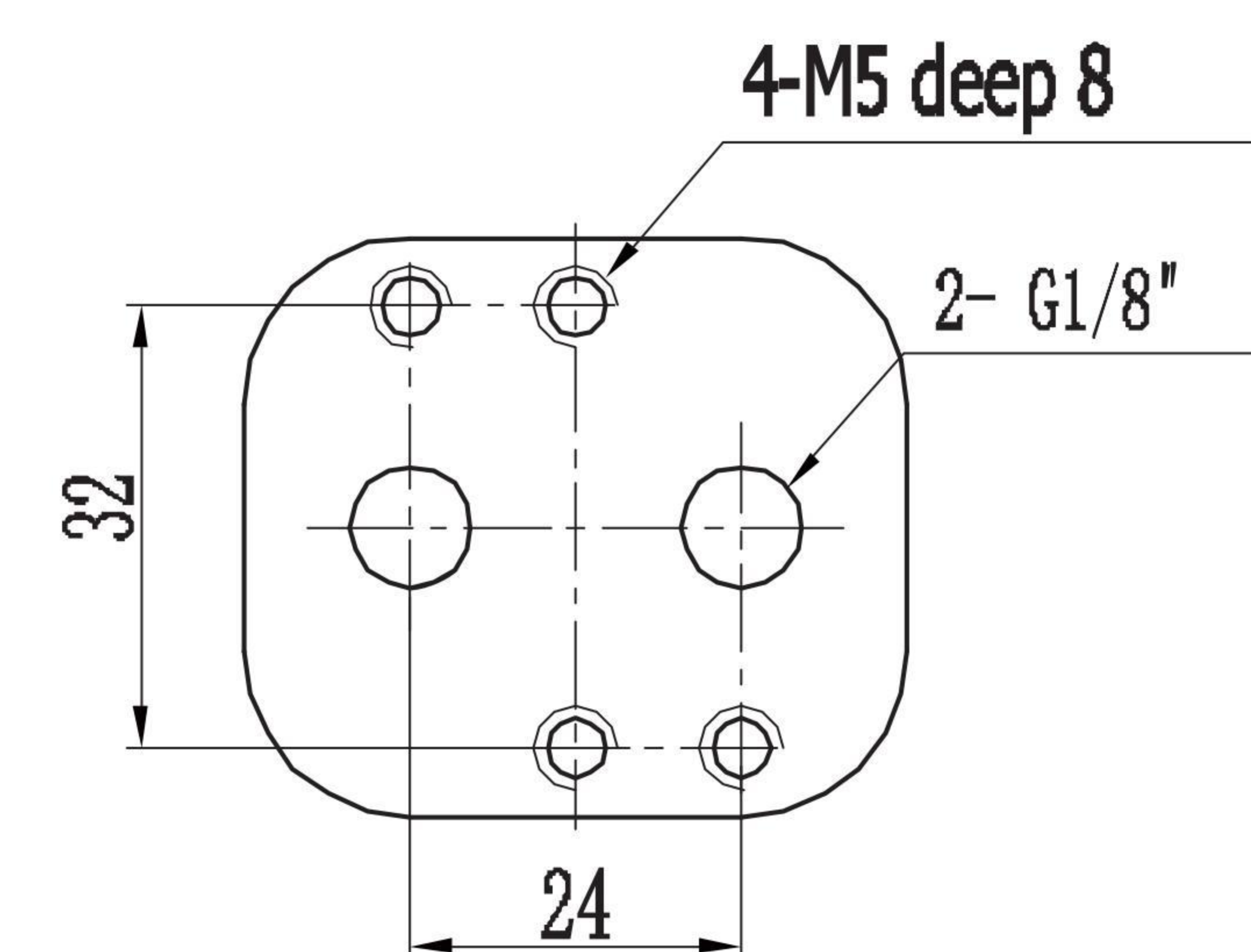
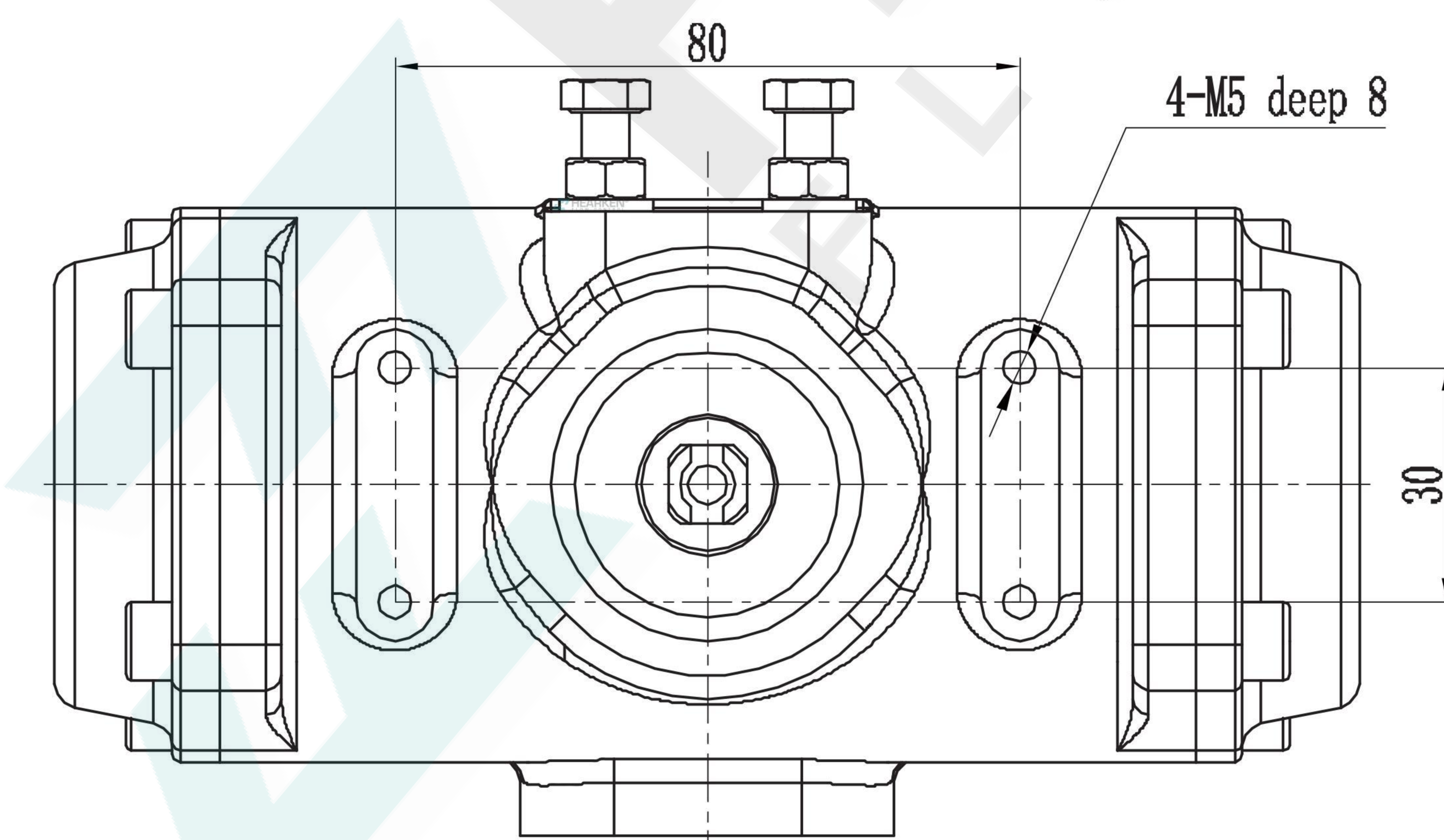
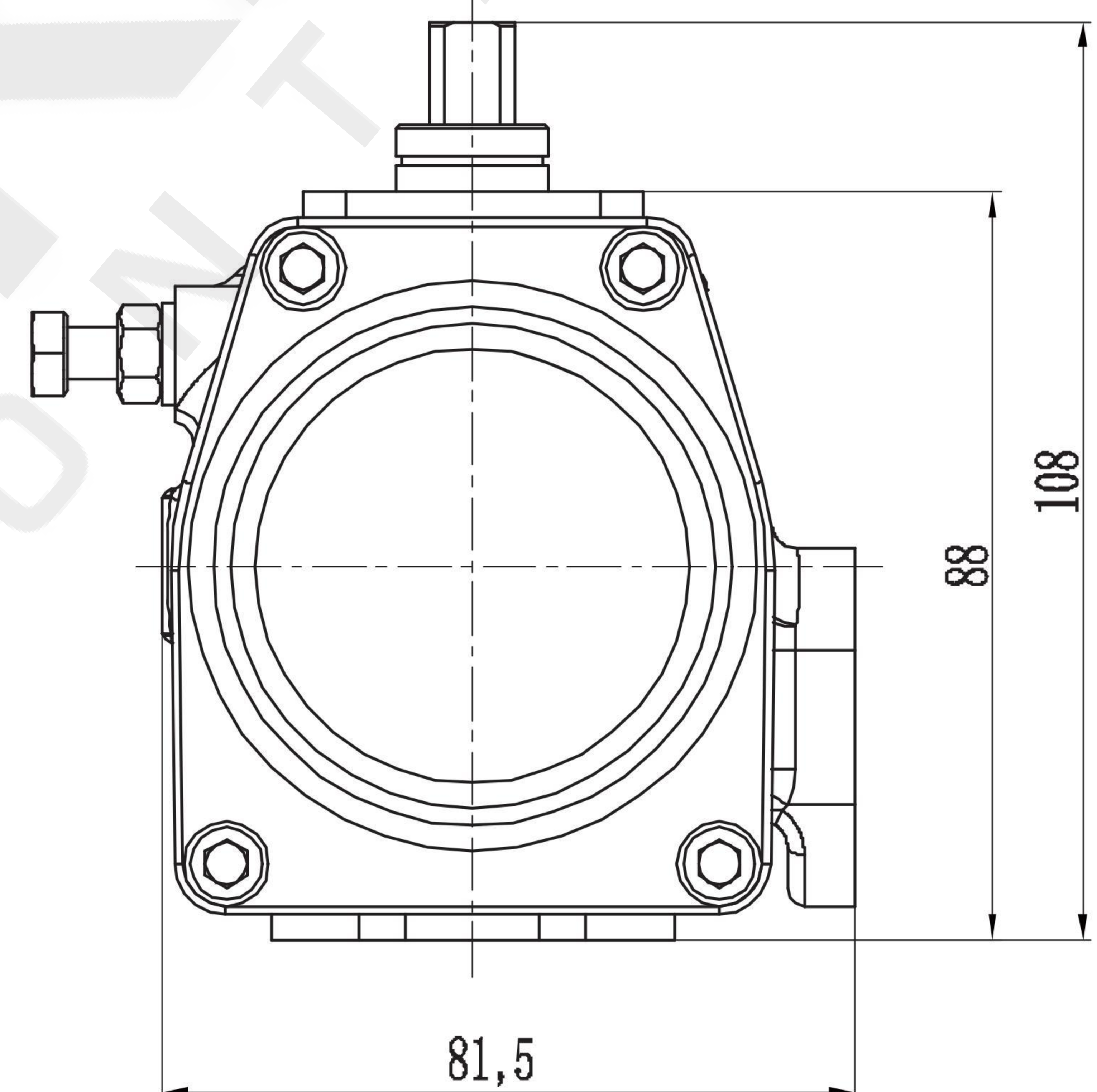
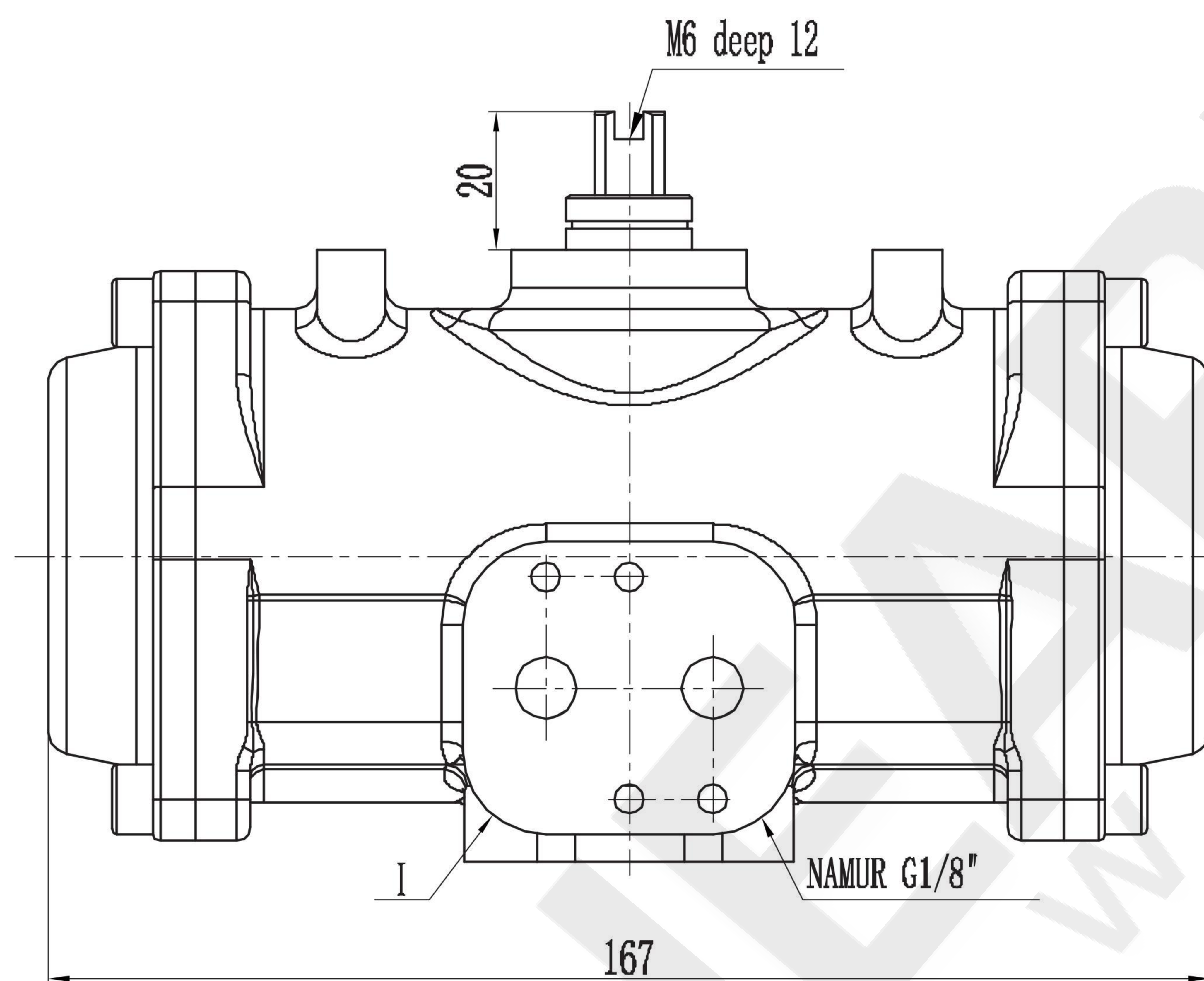
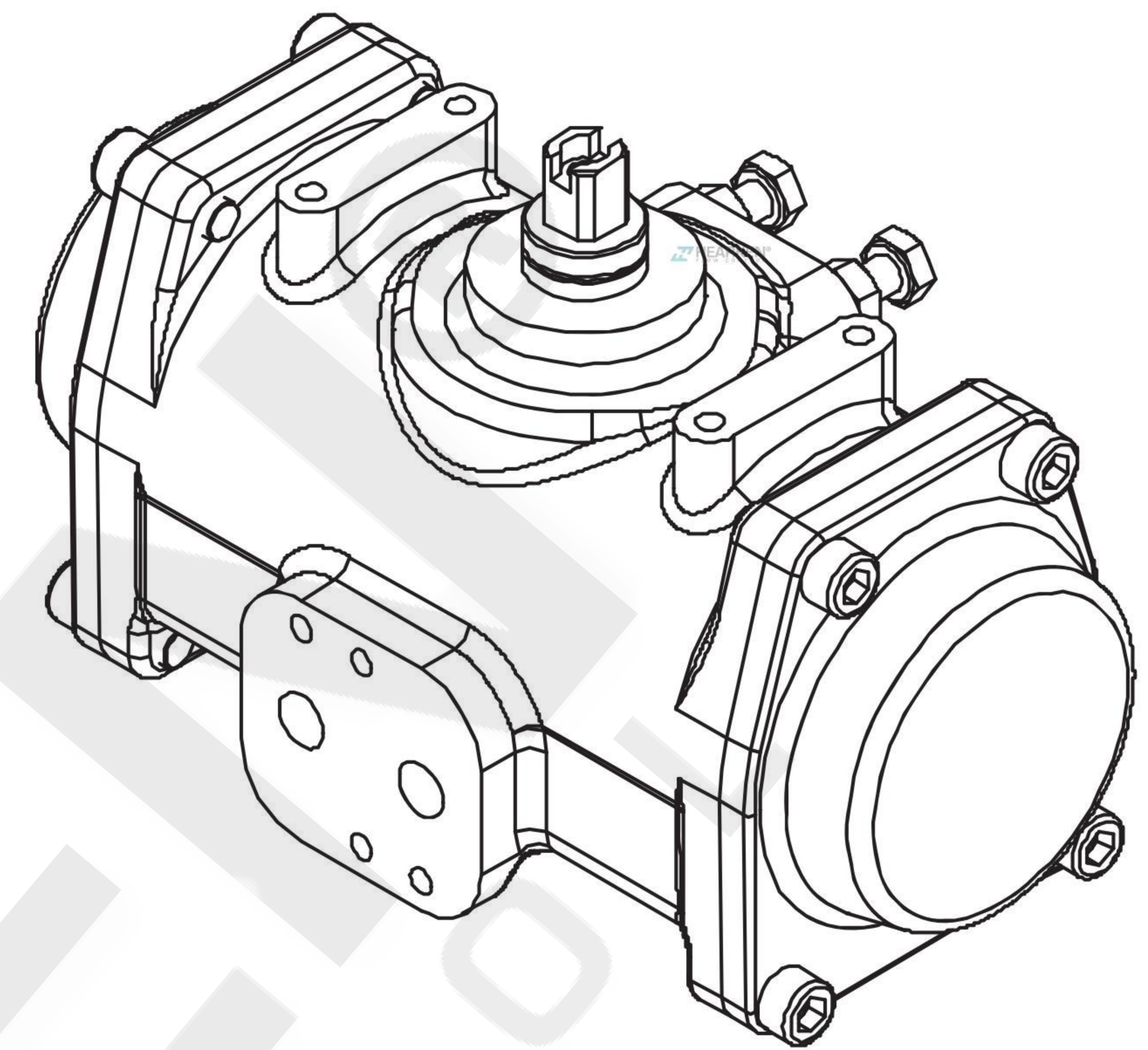
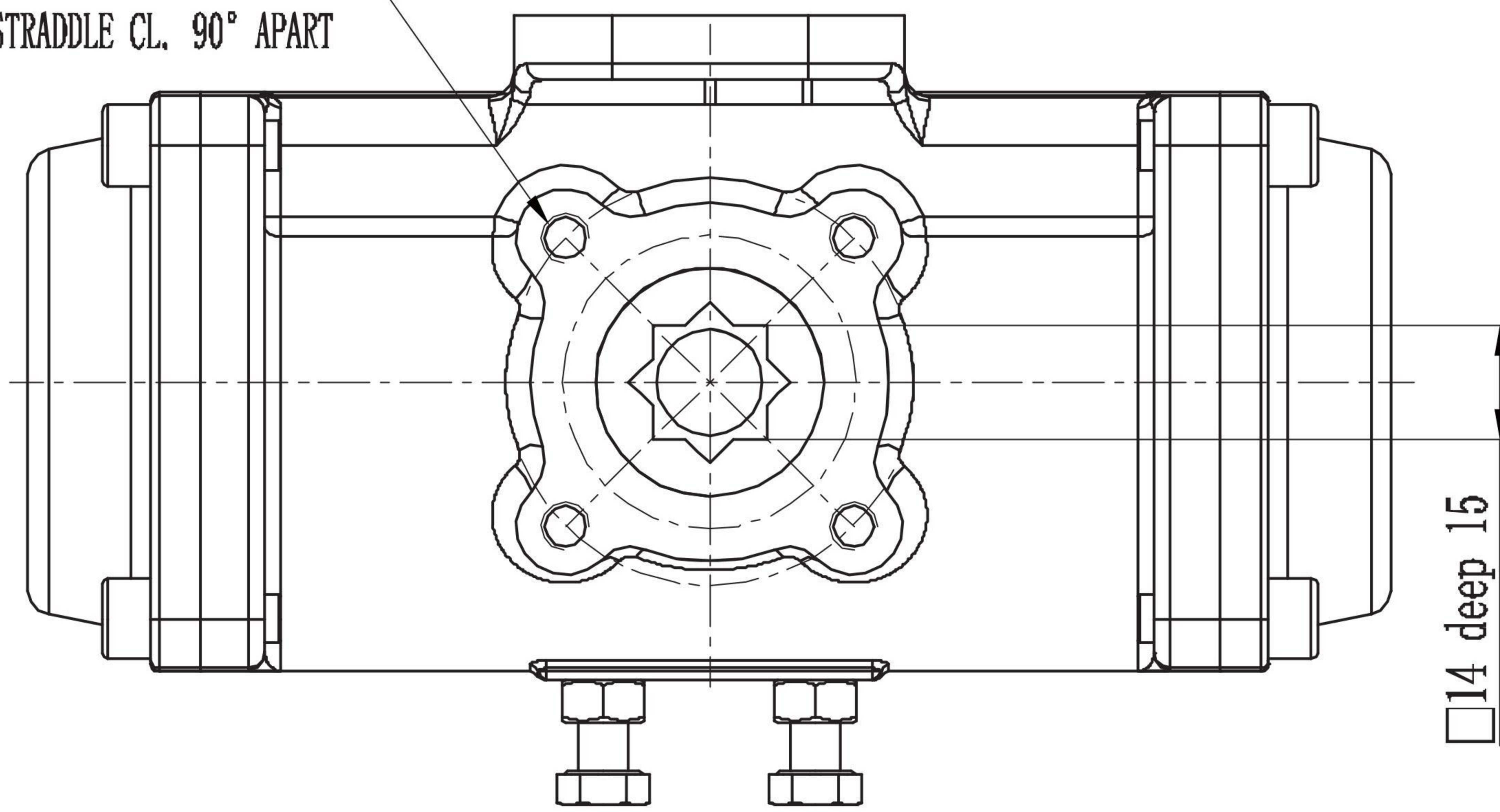
G1/8" NAMUR STANDARD



## MODEL HPAS063

### Basic Actuator Outline Dimension (Unit:mm)

4xM6-6Hx10 DEEP  
ON A 50 DIA. B. C.  
STRADDLE CL. 90° APART

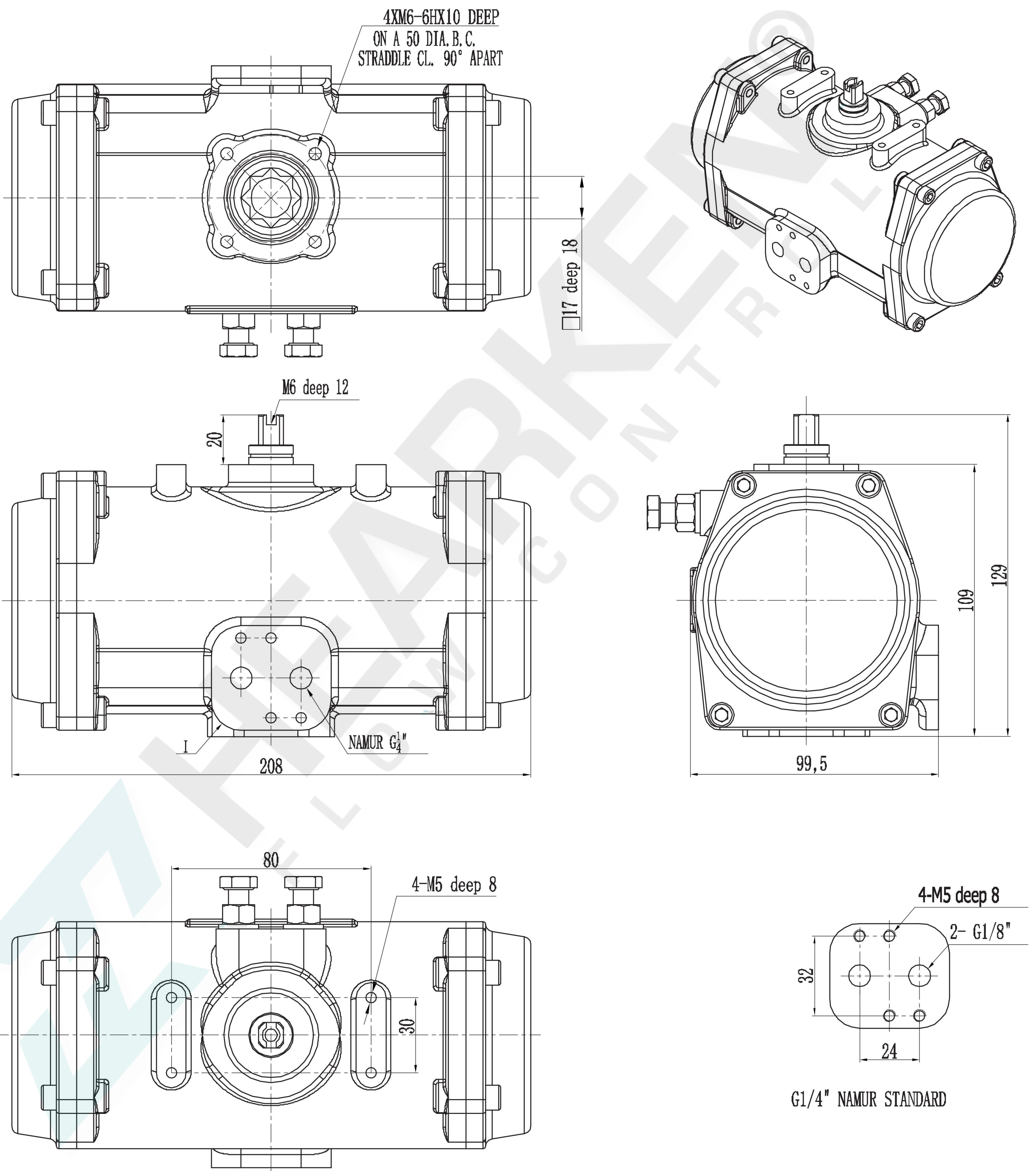


G1/8" NAMUR STANDARD



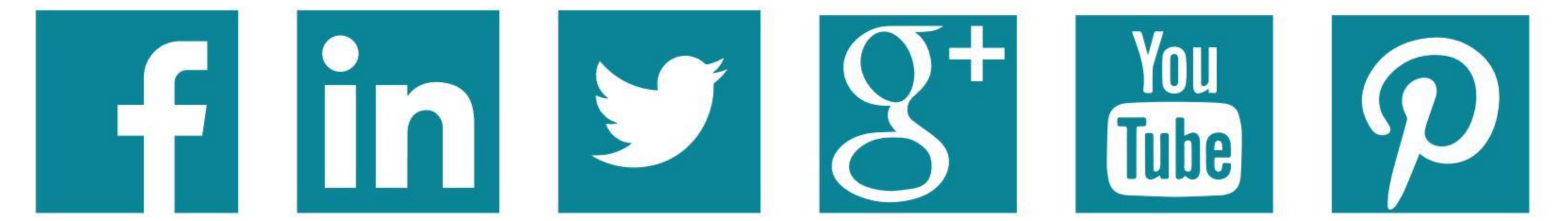
## MODEL HPAS083

### Basic Actuator Outline Dimension (Unit:mm)





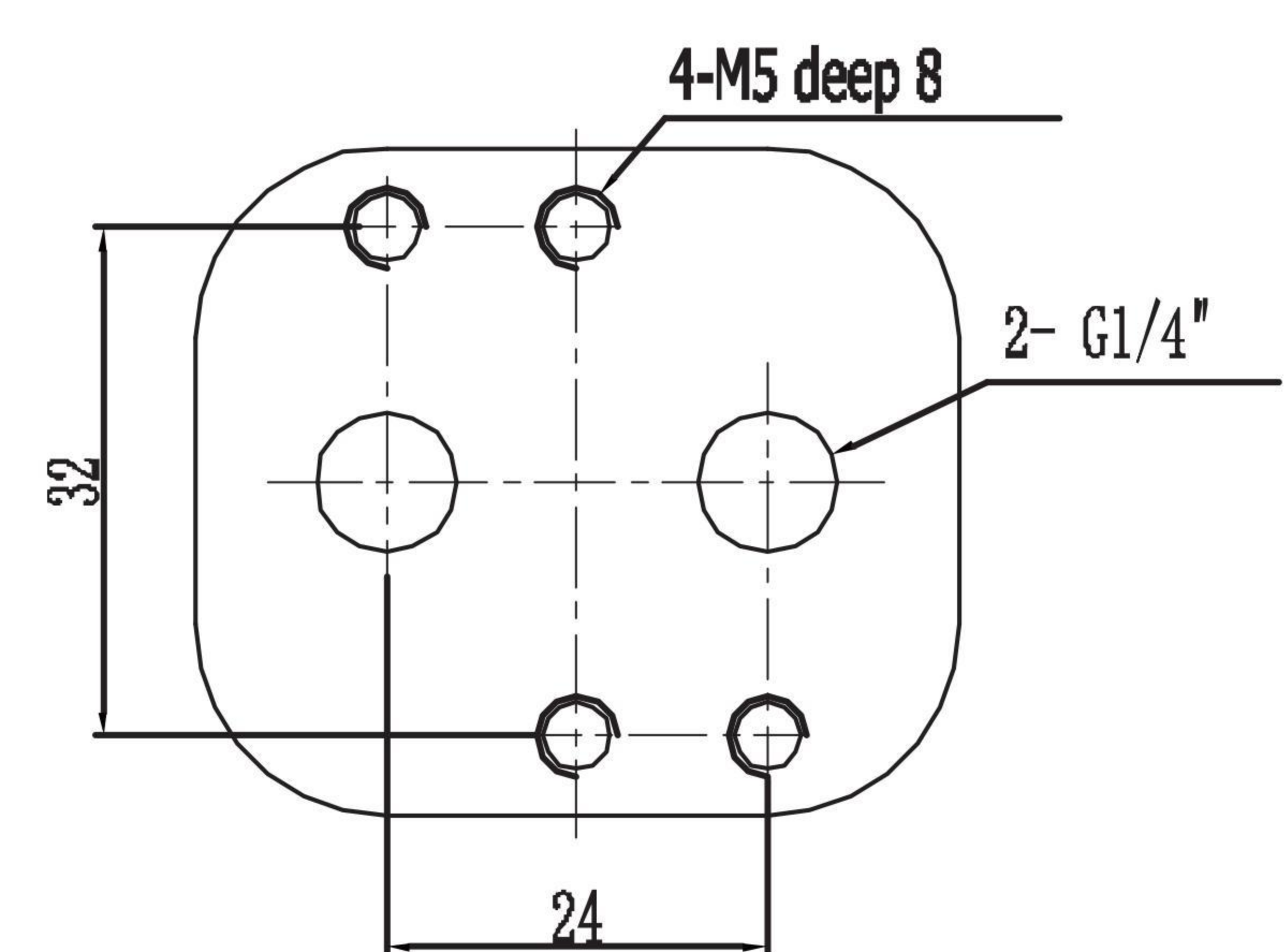
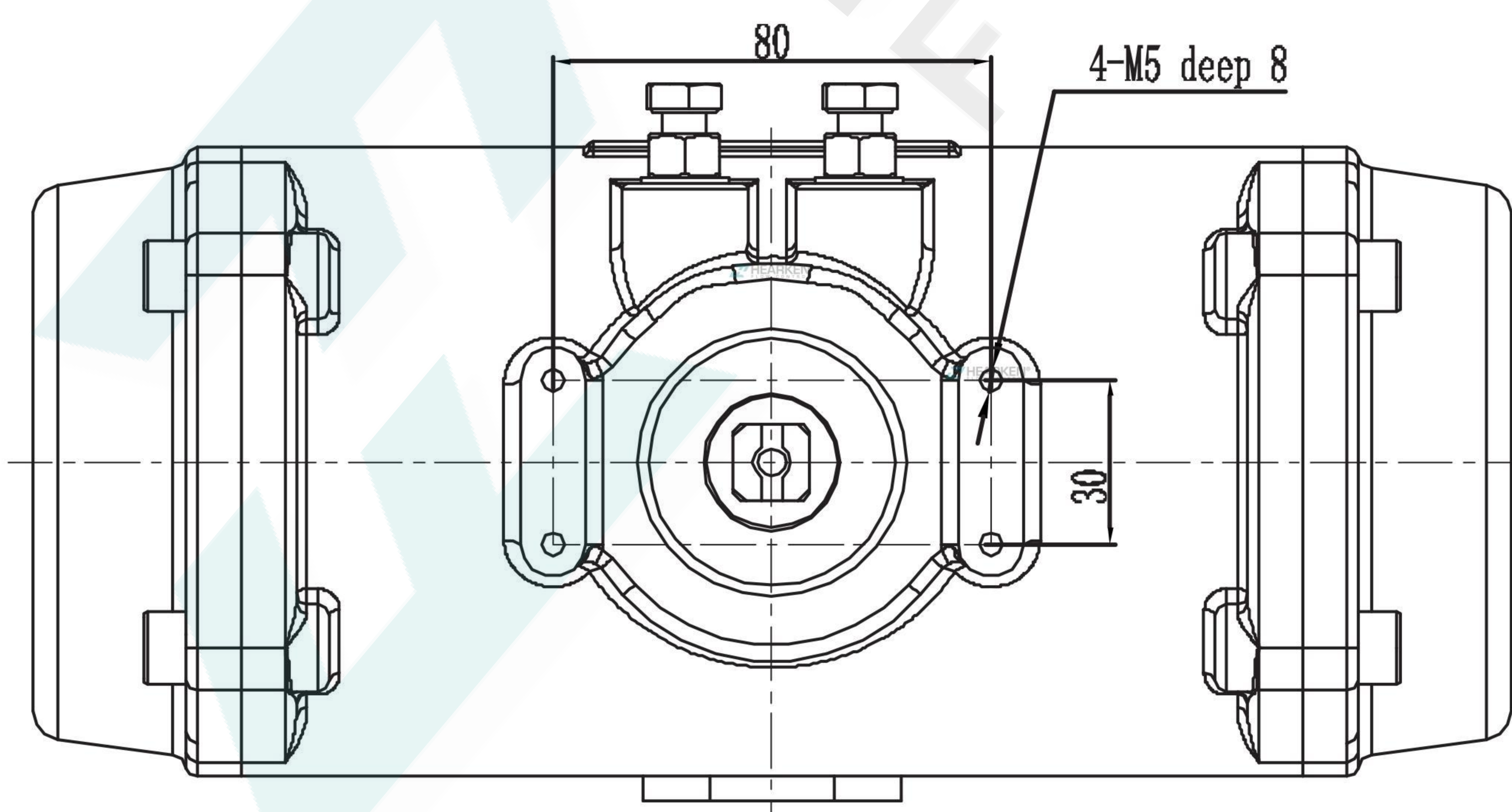
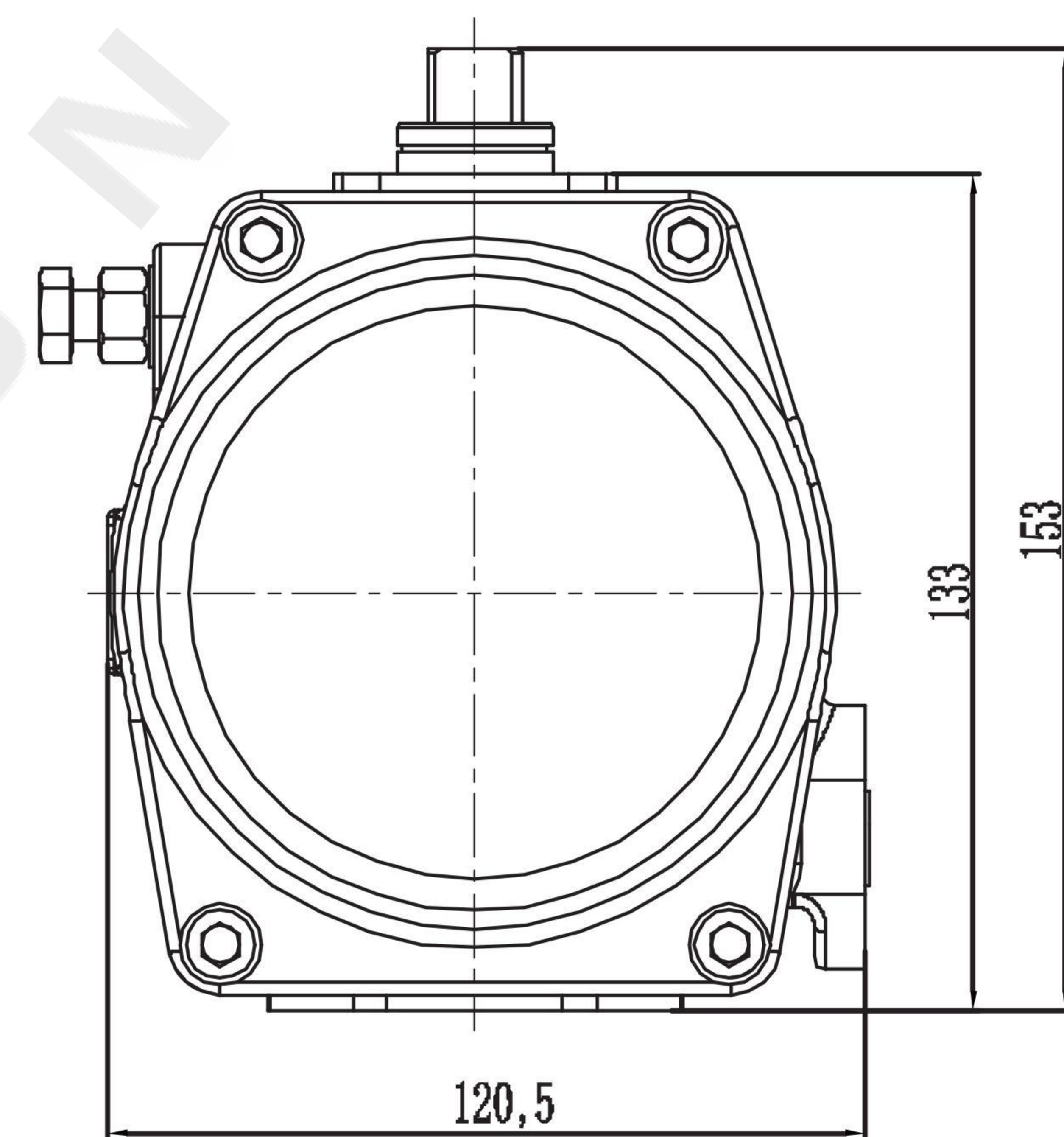
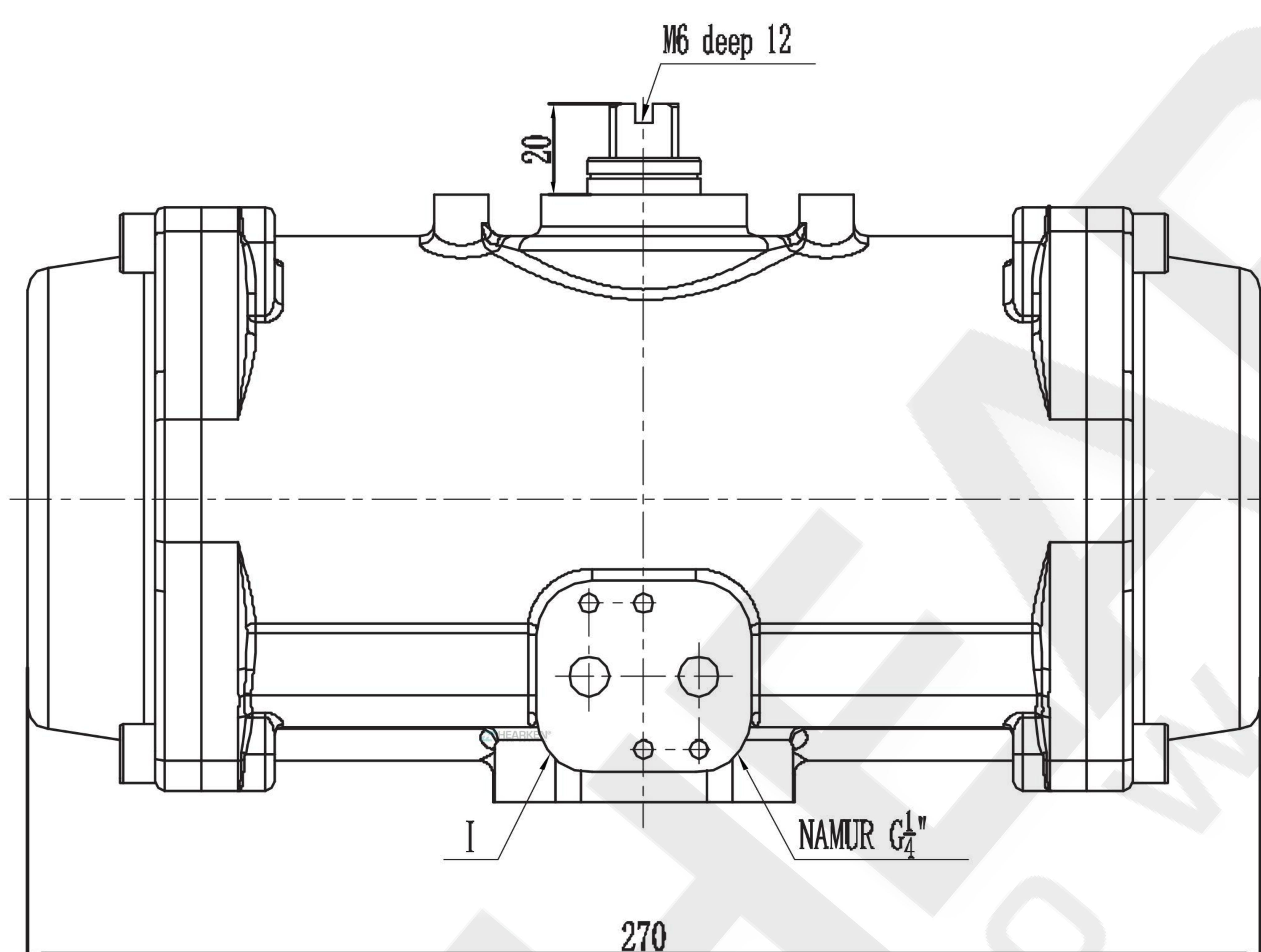
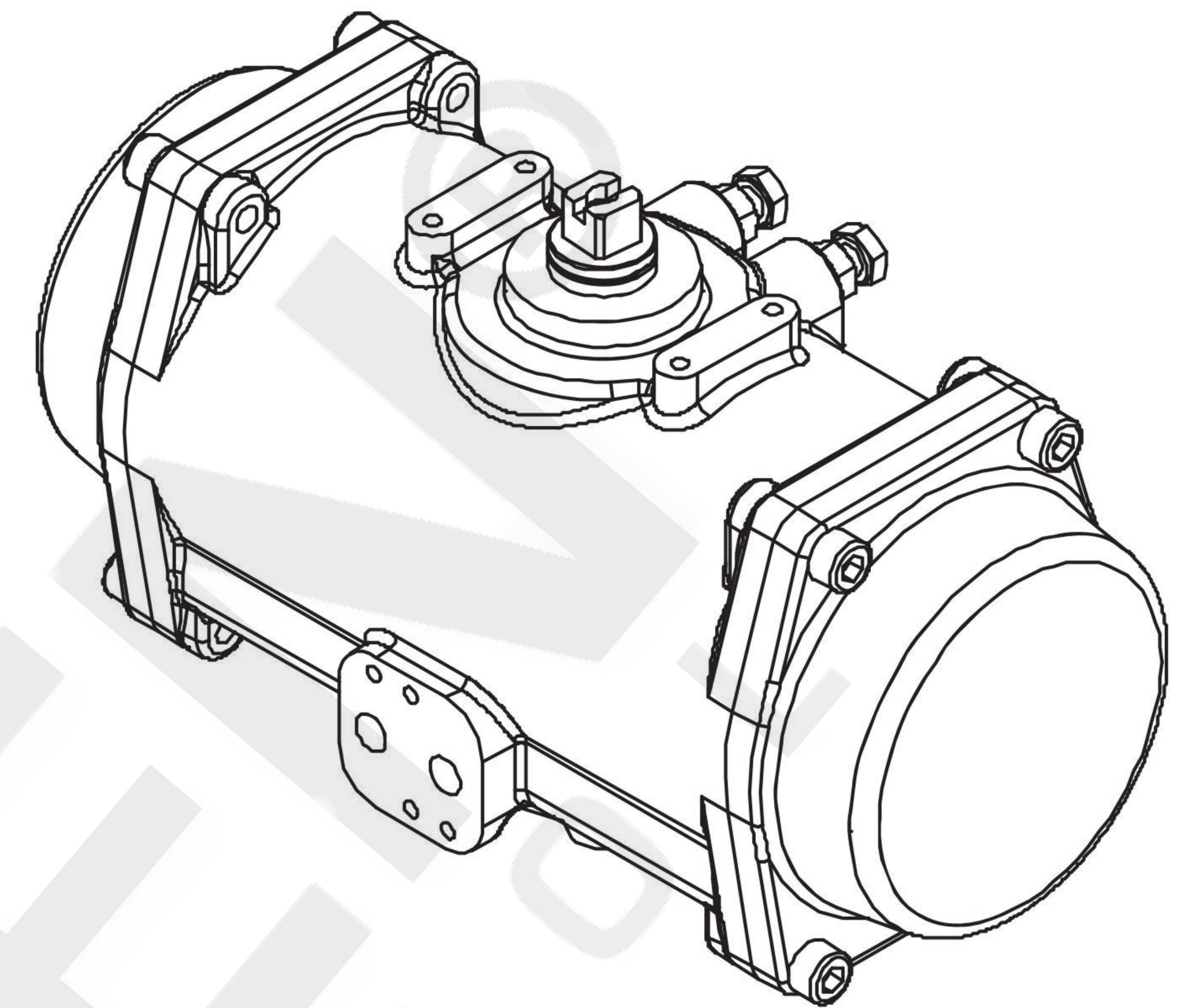
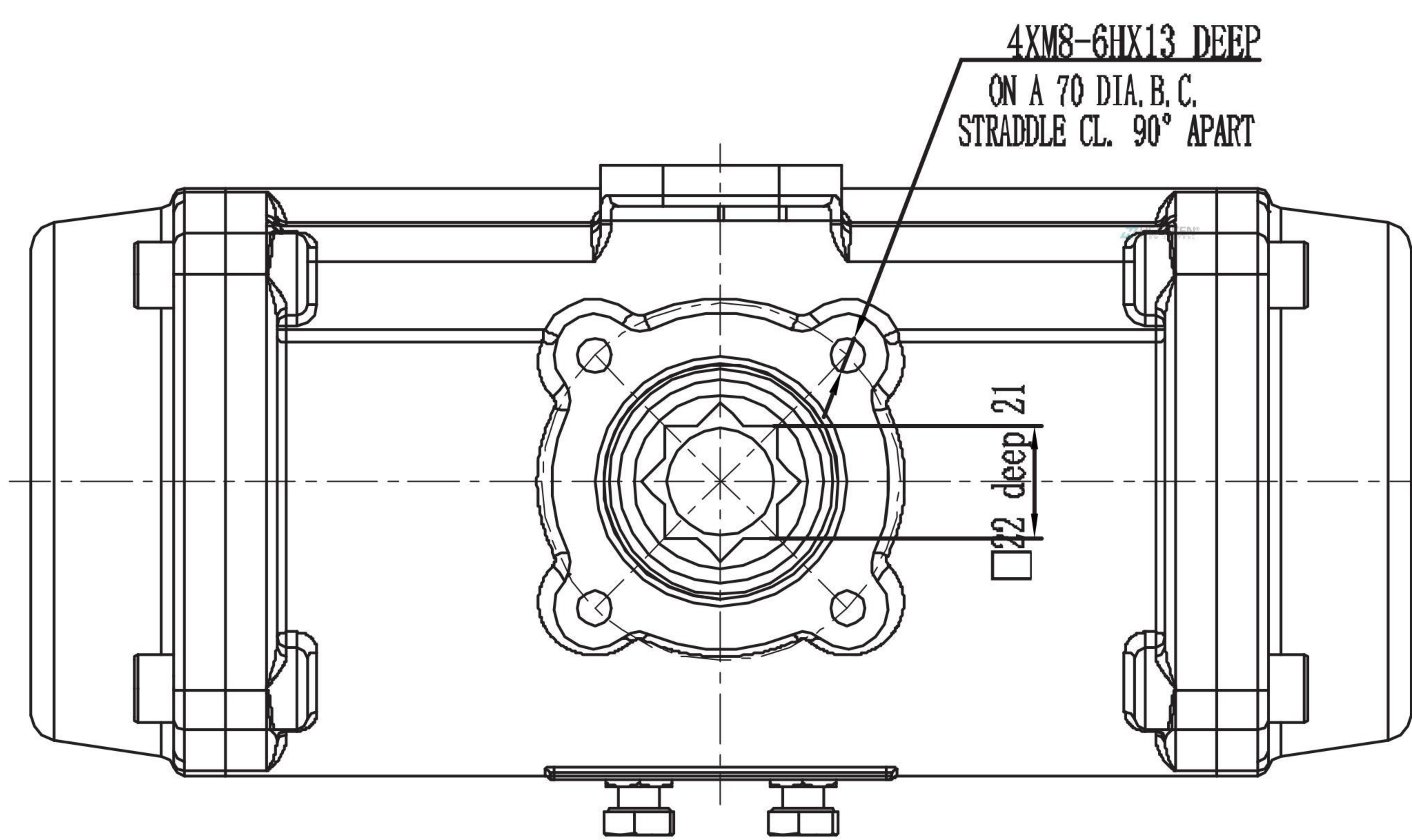
# HEARKEN FLOW



[www.hearkenflow.com](http://www.hearkenflow.com)

## MODEL HPAS105

### Basic Actuator Outline Dimension (Unit:mm)



G $\frac{1}{4}$ " NAMUR STANDARD