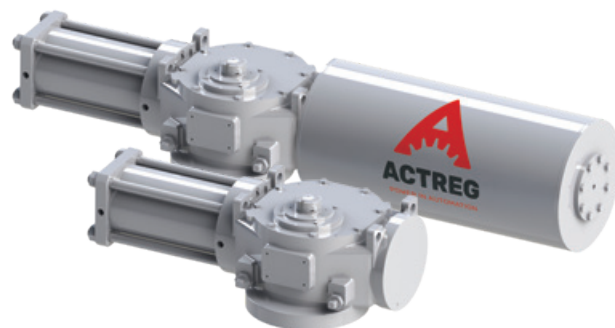




TECHNICAL CATALOG
HYDRAULIC ACTUATORS
Scotch Yoke

The background image shows several large, white, cylindrical industrial storage tanks. They are equipped with various pipes, valves, and metal walkways. A prominent staircase with a metal railing leads up to the top of one of the tanks. The entire scene is overlaid with a gradient that transitions from a deep red at the top to a dark teal at the bottom. Two thin, horizontal red lines are positioned above and below the text.

**We are specialized
in the manufacture
of high quality
actuators**



ACTREG, established in 1992, is a multinational company specializing in the manufacture and sales of high quality actuators for industrial valves for either On/Off or modulating duty.

The expertise and know how has made **ACTREG** leader in actuation technology.

ACTREG provides world coverage thanks to the strategic locations of its factories and offices.

The international distribution network ensures quick availability and more important, personalized service for valve manufacturers, valve stocking distributors and contractors.



Power in automation

ESTABLISHED IN
1992

INTERNATIONAL
Distribution

DESIGN &
Quality

LEADERS IN
Technology

PERSONALIZED
Service

We are a manufacturer of rack and pinion aluminium housing actuators with torque figures up to 6,500 Nm and scotch yoke actuators for heavy duty service up to 700,000 Nm. Our products offer reliable and dependable automation for industrial valves.



The precision in design and quality provides a long and safe operational performance in valve control.



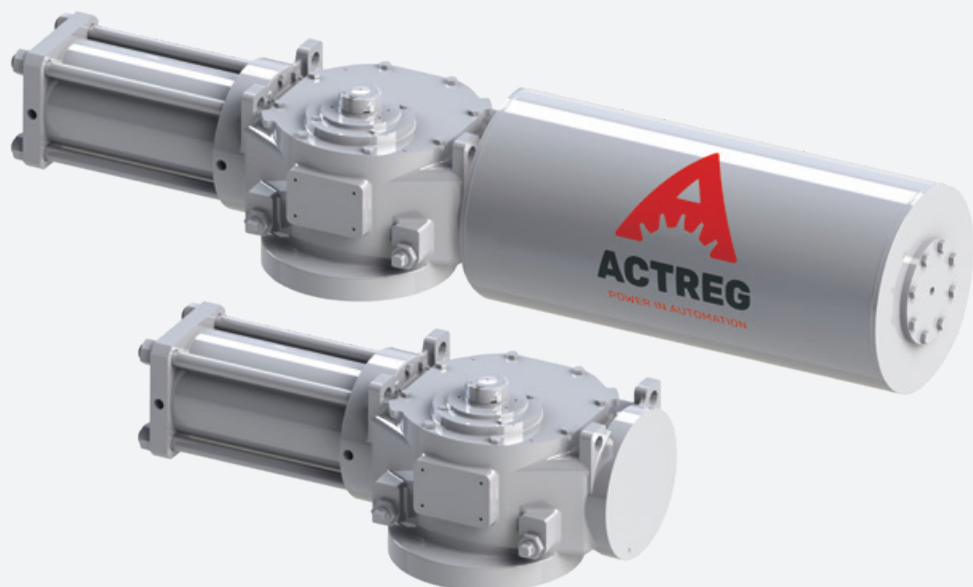
ACTREG has invested in quality assurance, state-of-the-art machining and testing facilities in order to assist customers in safely controlling their processes.



ACTREG engineers are happy to help you with your automation requirements.

OUR MISSION

Is to be the world's most reliable company in actuators management through our industry expertise, innovative solutions and community commitment.



HYDRAULIC ACTUATOR Spring return & Double acting

TORQUES UP TO
250.000 Nm

ACTUATORS IN
35 different sizes

CERTIFICATES

ACTREG S.A.U. has a Quality Management System certified in accordance with the requirements of ISO 9001:2015 for the design, development, manufacturing and distribution of pneumatic actuators and accessories for valves, and an Environmental Management System certified to ISO 14001:2015.

All **ACTREG** actuators are classified for use in potentially explosive atmospheres as Group II Category 2, suitable for zones 1, 2, 21 and 22 in accordance with directive 2014/34/EU "ATEX".

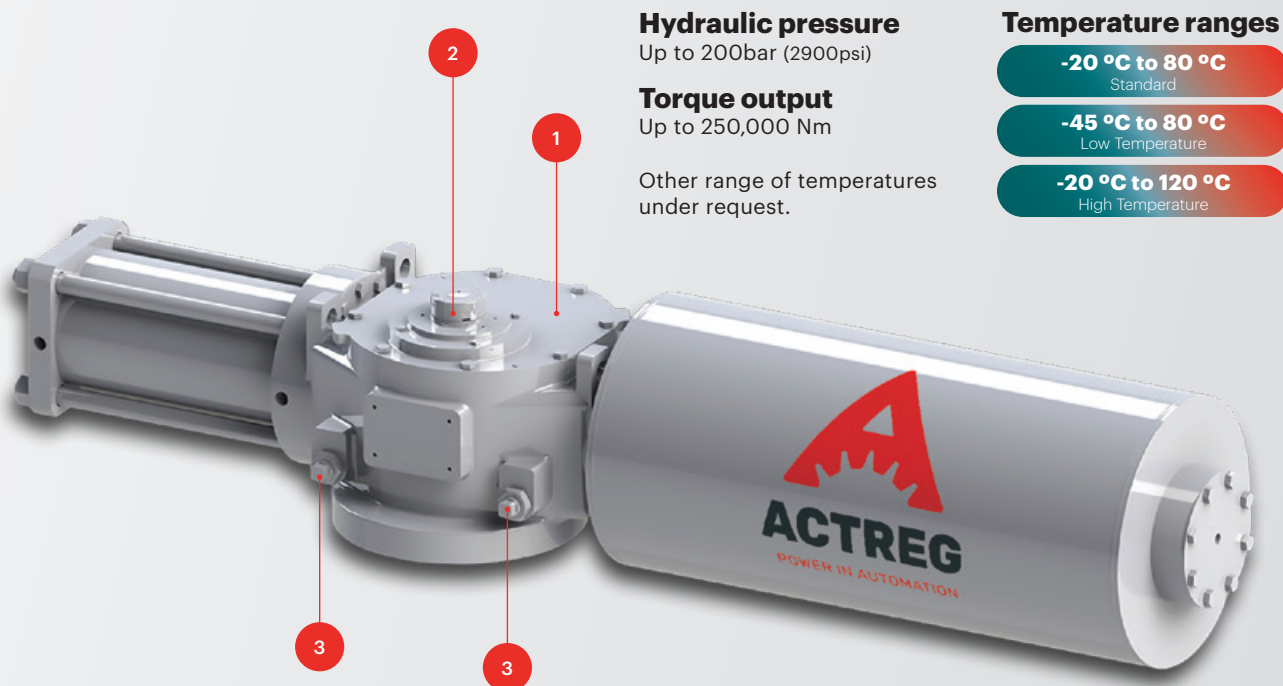
All **ACTREG** actuators are tested and certified according to IEC61508:2010 and have a SIL3 capability. In addition, we can supply the final elements loops for SIF, with a full SIL calculations including valves and ancillaries, so we can provide a SIL certificate for the complete final element units.

TR-CU (Technical Regulations of Customs Union) certificates for Eurasian countries (EAC).

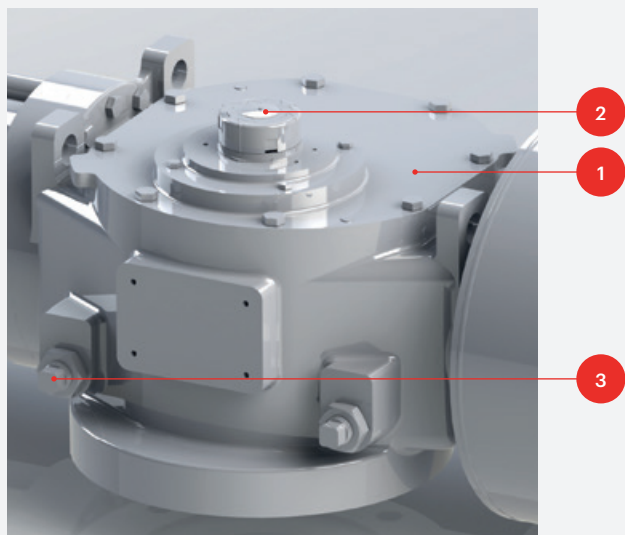
TYPE approval for Pipping systems offshore standard, marine and machinery systems and equipment.



MAIN FEATURES & CHARACTERISTICS

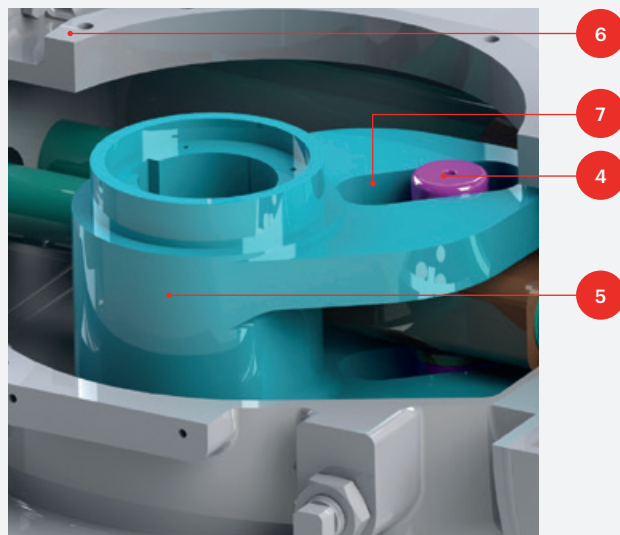


BODY

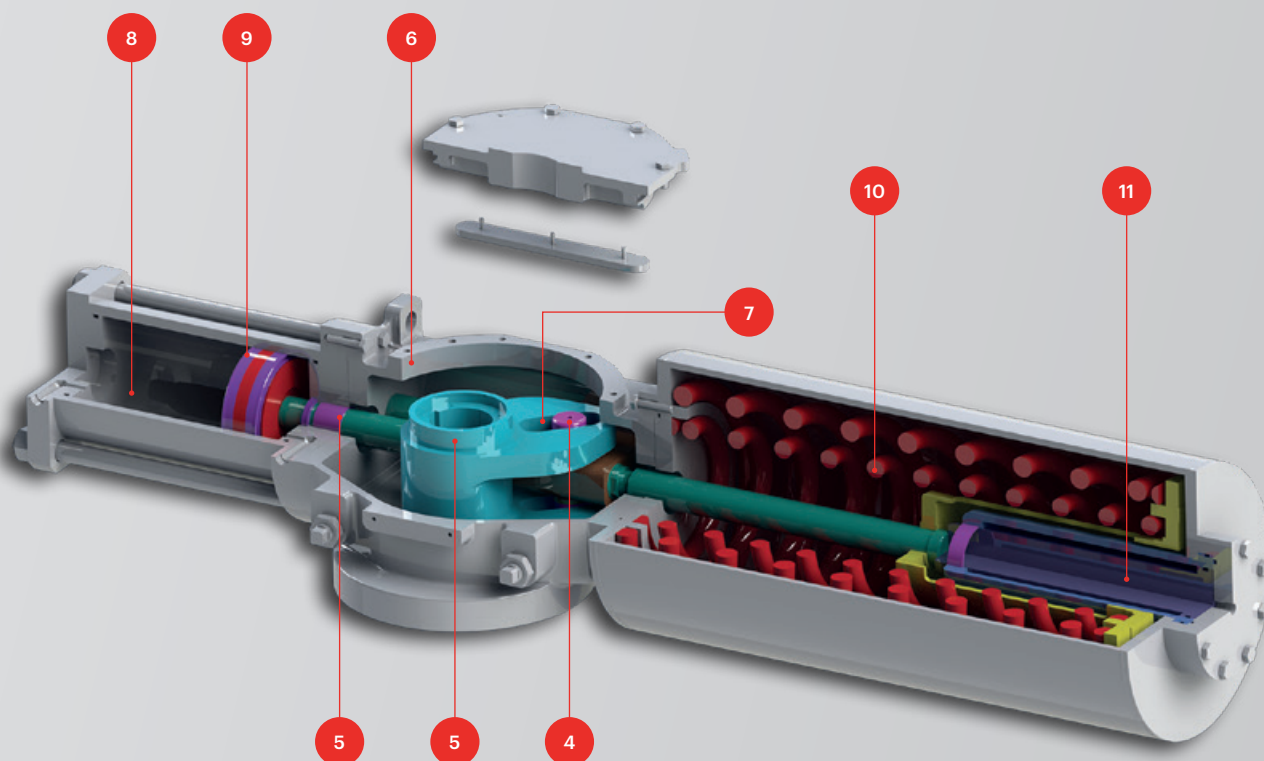


- +** 10 different sizes from F10 (200 Nm) up to F60 (250.000 Nm).
- 1** Internal O-rings to ensure water ingress protection.
- 2** NAMUR standard for all sizes for assembly of switch boxes and positioners.
- 3** Threaded parts in front and the back side of the body for easy assembly of a pneumatic control panel.

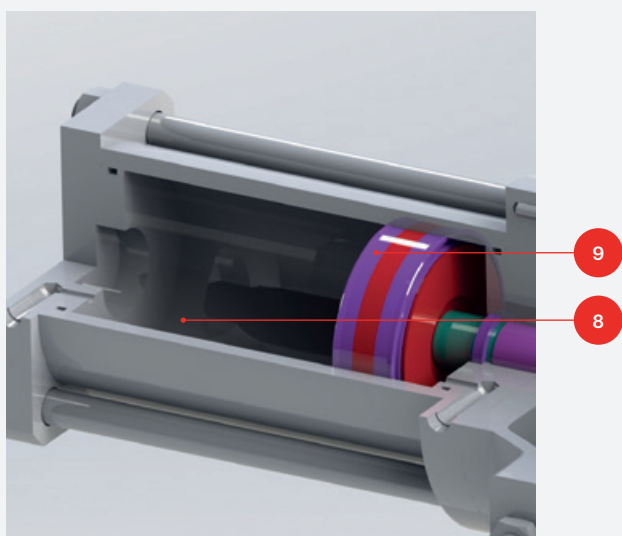
INTERNAL BODY PARTS



- 4** Roller is used, reducing the friction between the yoke arm and pin, minimizing the wear.
- 5** Replaceable bearings protect the sliding and rotating components, suitable for either dry or lubricated working conditions.
- 6** PTFE thrust bar prevents yoke pin axial movement, transferring axial loads directly to the drive module case.
- 7** Yoke connects the piston rod with the guide block, compensating for side load deflection and reducing wear on rod, bearings and seals.



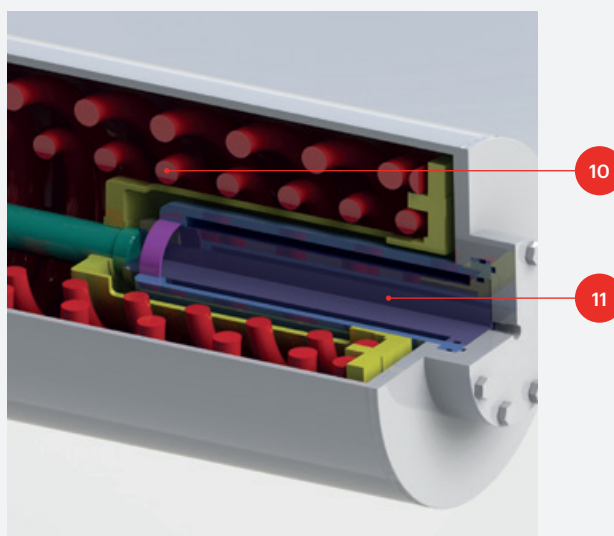
HYDRAULIC CYLINDER



8 HYDRAULIC CYLINDER
The inner surface of cylinder is coated with PTFE, to prevent resistance and self-lubricating.

9 PISTONS SEALS
Double sealing, with O-ring and dynamic ring to prevent metal to metal contact between the piston and the cylinder.

SPRING MODULE



10 Safe spring Lock, prevents spring module detachment from the drive module.

11 Internal Hydraulic cylinder for manual pump override.

VERSATILITY

Every ACTREG SY series actuator is built to provide long end efficient service with minimum maintenance. The design, engineering and materials used in their construction ensure optimum performance even in the hardest environments.

Totally enclosed weatherproof centre-body and caps provided with o`rings to ensure the water ingress protection.

The centre-body has a guide that supports transverse forces of the scotch and yoke mechanism and ensures proper alignment of the piston rod.

External travel stop screws allow a precise valve angular stroke adjustment between 80° to 100°.

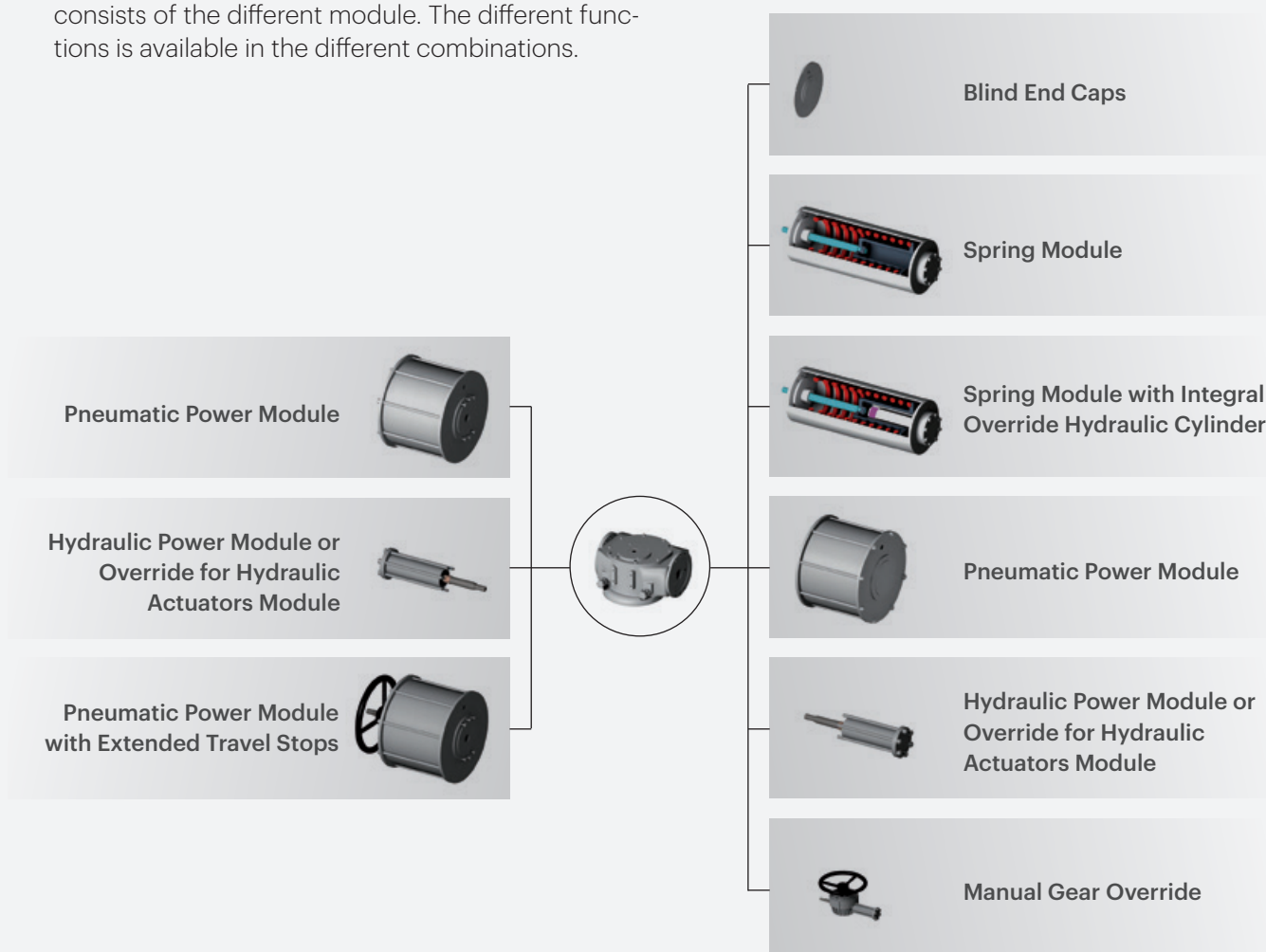
The SY actuators are manufactured in many different combinations of actuator sizes, cylinder diameters, and double or spring return action is available for installation on ¼ turn valves. SY actuators are designed for use over a wide range of pressures or temperatures.

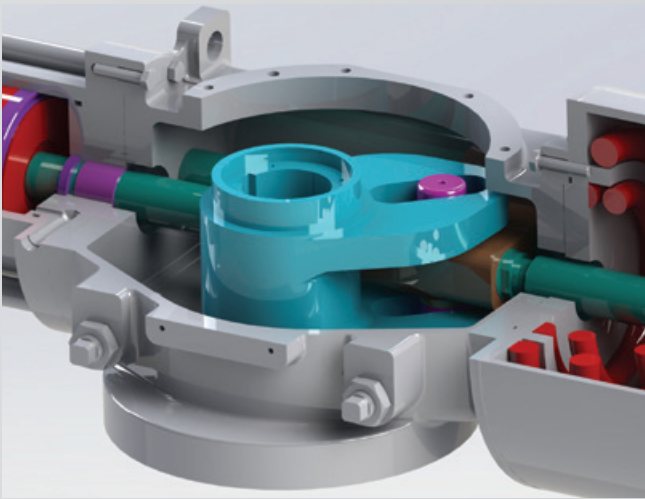
The scotch and yoke mechanism is available in symmetric design offering a more constant torque with minimum cost and weight.

The SY actuator is a modular design. A pneumatic or hydraulic cylinder can be attached, to either side or both sides. With a large stock of finished and semi-finished components always available, actuators can be assembled and supplied with very fast and reliable deliveries.

MODULAR VERSATILITY

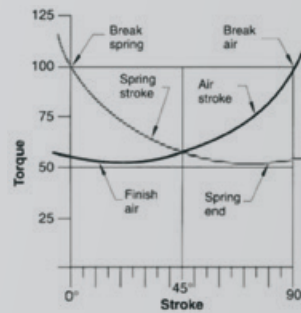
SY series actuators are the module-in design which consists of the different module. The different functions is available in the different combinations.





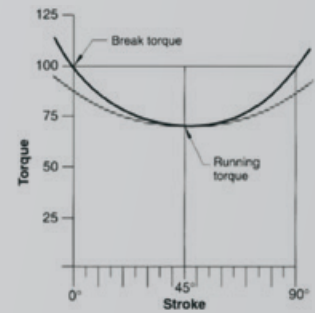
Torque Characteristics

Single Acting



Torque Characteristics

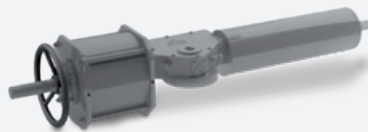
Double Acting



MANUAL OVERRIDE OPTIONS



Hydraulic Manual
Override (HY)



Jackscrew Manual
Override (HW)



Declutchable Gears
Sandwich type

CONTROL PANELS AND SPECIFIC SOLUTIONS

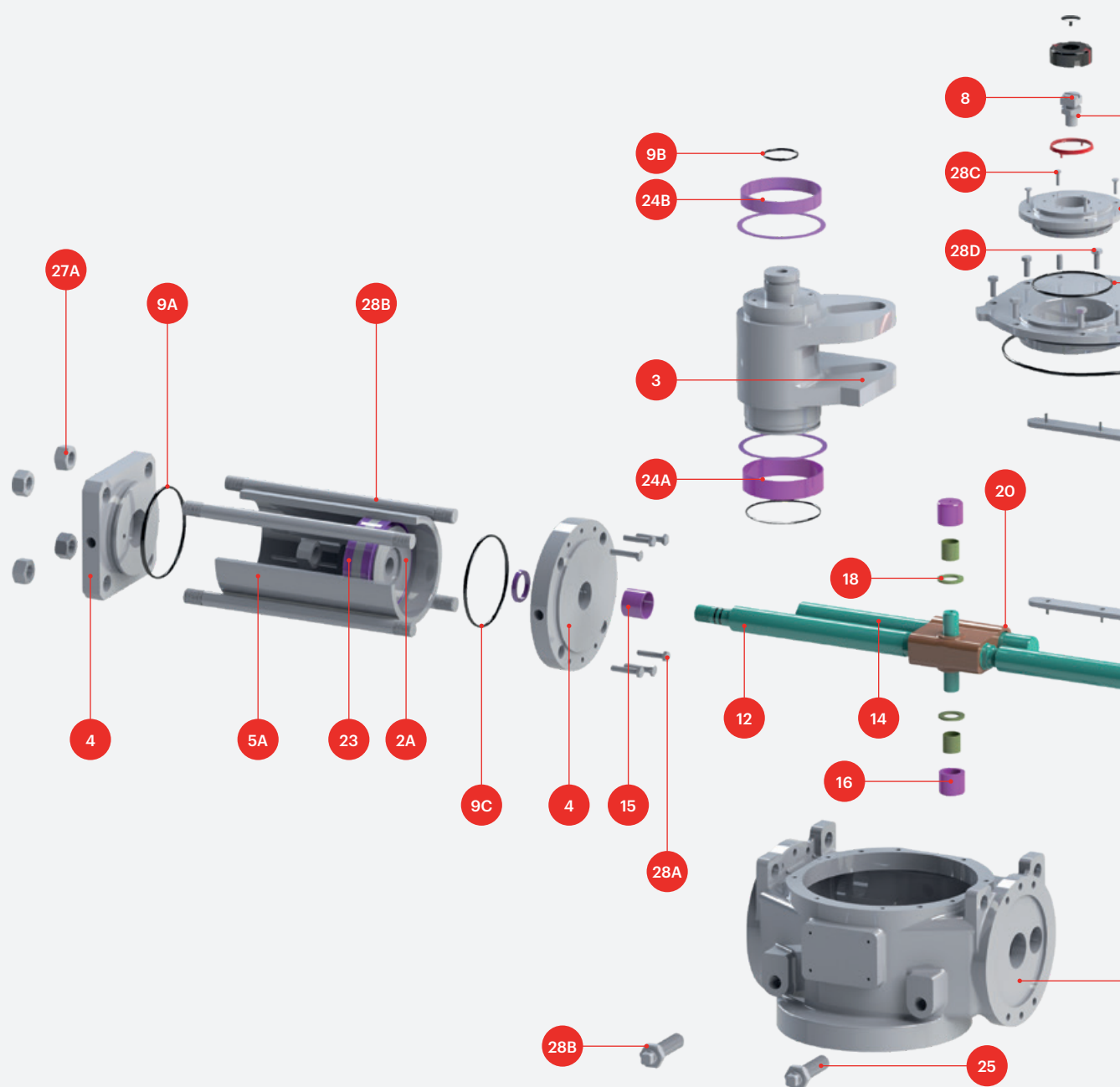
ACTREG has the capability to integrate our actuators in a complete pneumatic and hydraulic control system to cover all the needs that valve automation requirements. Our engineers have a deep knowledge of controls and pneumatic and hydraulic systems.



PASSIVE FIRE PROTECTIONS

Passive fire protection is a key issue in the safety of hydrocarbon process plants. It is considered a reliable method to reduce plant fire risks. For this matter, ACTREG actuators can be customized to withstand exposure to fire and very high temperatures. A full range of fire proof systems is available, including protective jackets, intumescent coatings and stainless steel enclosure systems.

PARTS & MATERIALS



1 Body
Ductil iron

2A Piston
Ductil iron

2B Piston
Ductil iron

3 Yoke
Carbon steel

4 End cap
Carbon steel

5A Pneumatic cylinder
Carbon steel

5B Pneumatic cylinder
Carbon steel

6 Body cover
Ductil iron

7 Shaft cover
Ductil iron

8 Drive shaft
Stainless steel

9 A-H Oring
NBR

10 Supported guide
Carbon steel

11 Supported guide
Carbon steel

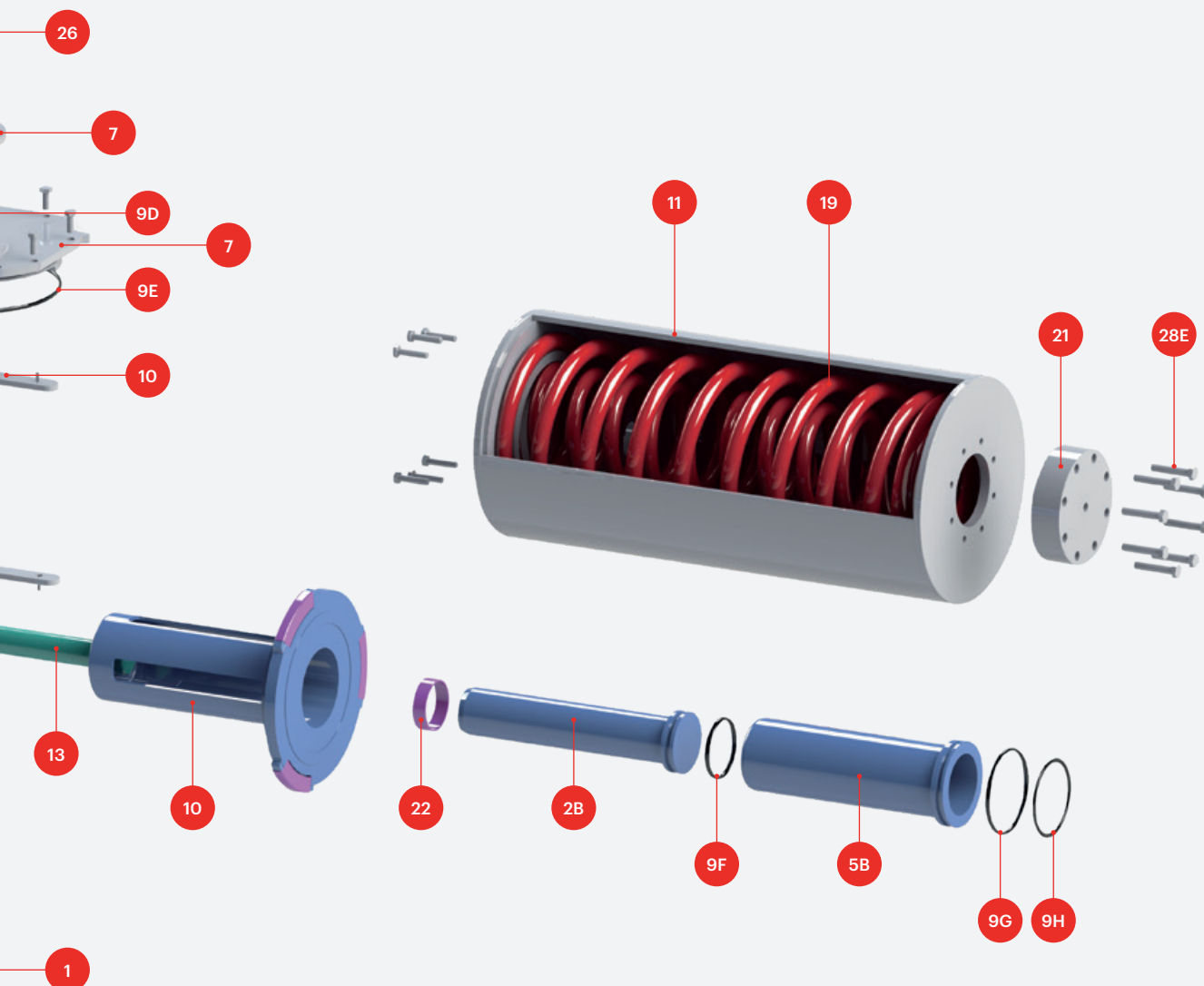
12 Center bar
Alloy steel chromium plated

13 Tension rod
Alloy steel chromium plated

14 Center guide bar
Alloy steel chromium plated

15 Sliding bearing
Metal + PTFE

16 Roller sliding bearing
Metal + PTFE



17 Roller
Alloy steel

18 Block washer
Stainless steel

19 Spring
Alloy steel

20 Guide block
Ductil iron

21 Cover plate
Carbon steel

22 Sliding bearing
Metal + PTFE

23 Guide ring
PTFE

24A Siliding bearing
Metal + PTFE

24B Siliding bearing
Metal + PTFE

25 Adjustment screw
Carbon steel

26 Nut drive shaft
Stainless steel

27A Nut
Carbon steel

27B Nut
Carbon steel

28A-E Screw
Carbon steel

O-rings in NBR: standard execution.

O-rings in Viton: high temperature execution.

O-rings in Silicone: low temperature and extreme low temperature executions.

CYLINDER VOLUME

ACTREG SY SERIES

SPRING RETURN

Series	Volume (ml)	Series	Volume (ml)	Series	Volume (ml)
SY02F10-40 SRA	110	SY02F25-90 SRA	1100	SY02F35-220 SRC	11500
SY02F10-40 SRB	110	SY02F25-100 SRA	1420	SY02F40-170 SRA	7180
SY02F10-50 SRB	150	SY02F25-110 SRA	1770	SY02F40-190 SRA	9400
SY02F10-50 SRC	150	SY02F25-100 SRB	1420	SY02F40-220 SRA	13100
SY02F10-60 SRC	235	SY02F25-110 SRB	1770	SY02F40-190 SRB	9400
SY02F12-50 SRA	180	SY02F25-120 SRB	2150	SY02F40-220 SRB	13100
SY02F12-60 SRA	285	SY02F25-100 SRC	1420	SY02F40-245 SRB	16500
SY02F12-50 SRB	285	SY02F25-120 SRC	2150	SY02F48-190 SRA	10800
SY02F12-60 SRB	285	SY02F25-140 SRC	3000	SY02F48-220 SRA	15200
SY02F12-70 SRB	405	SY02F30-110 SRA	1980	SY02F48-245 SRA	19300
SY02F14-60 SRA	310	SY02F30-120 SRA	2450	SY02F48-220 SRB	15200
SY02F14-70 SRA	455	SY02F30-140 SRA	3460	SY02F48-245 SRB	19300
SY02F14-60 SRB	310	SY02F30-120 SRB	2450	SY02F48-270 SRB	23800
SY02F14-70 SRB	455	SY02F30-130 SRB	2950	SY02F48-245 SRC	19300
SY02F14-70 SRC	455	SY02F30-150 SRB	4050	SY02F48-270 SRC	23800
SY02F14-80 SRC	620	SY02F30-130 SRC	2950	SY02F48-290 SRC	27900
SY02F14-100 SRC	1010	SY02F30-150 SRC	4050	SY02F60-220 SRA	19000
SY02F16-70 SRA	520	SY02F30-170 SRC	5300	SY02F60-245 SRA	24500
SY02F16-80 SRA	720	SY02F35-130 SRA	3490	SY02F60-270 SRA	30600
SY02F16-90 SRA	950	SY02F35-150 SRA	4920	SY02F60-245 SRB	24500
SY02F16-80 SRB	720	SY02F35-170 SRA	6500	SY02F60-270 SRB	30600
SY02F16-90 SRB	950	SY02F35-150 SRB	4920	SY02F60-320 SRB	44500
SY02F16-100 SRB	1200	SY02F35-170 SRB	6500		
SY02F16-80 SRC	720	SY02F35-190 SRB	8350		
SY02F16-100 SRC	1200	SY02F35-170 SRC	6500		
SY02F16-110 SRC	1480	SY02F35-190 SRC	8350		

SPRING RETURN

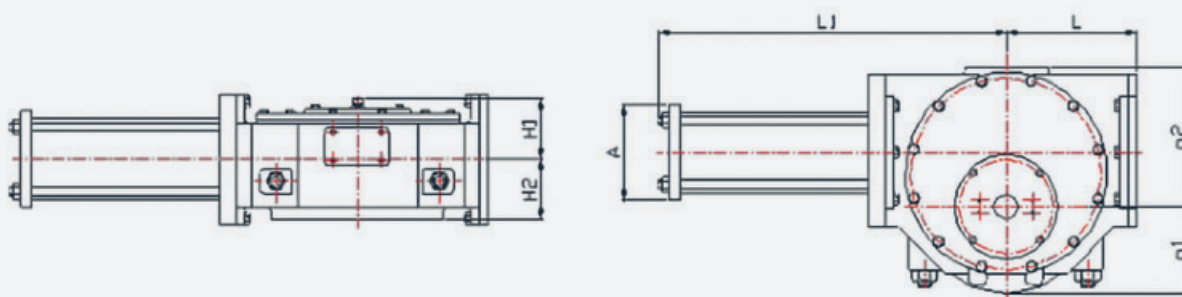
Series	Volume (ml) Side A	Volume (ml) Side B	Series	Volume (ml) Side A	Volume (ml) Side B
SY02F10-40 DA	110	165	SY02F35-130 DA	3490	4330
SY02F12-40 DA	120	198	SY02F35-150 DA	4920	5740
SY02F12-50 DA	150	245	SY02F35-170 DA	6500	7380
SY02F14-60 DA	310	425	SY02F40-170 DA	7180	8750
SY02F14-70 DA	455	580	SY02F40-190 DA	9400	10920
SY02F16-70 DA	520	700	SY02F40-220 DA	13100	14650
SY02F16-80 DA	720	910	SY02F48-190 DA	10800	12750
SY02F25-90 DA	1100	1340	SY02F48-220 DA	15200	17100
SY02F25-100 DA	1420	1650	SY02F48-245 DA	19300	21230
SY02F25-110 DA	1770	2000	SY02F48-270 DA	23800	25800
SY02F30-110 DA	1980	2450	SY02F60-245 DA	24500	28270
SY02F30-120 DA	2450	2900	SY02F60-270 DA	30600	34400
SY02F30-130 DA	2950	3400	SY02F60-320 DA	44500	48300

TORQUE & DIMENSIONS

DOUBLE ACTING

TORQUE SHEET (Nm)

Series	Flange	70 bar		100 bar		135 bar	
		START - END	RUNNING	START - END	RUNNING	START - END	RUNNING
SY02F10-40 DA	F10	306	183	437	262	589	353
SY02F12-40 DA	F12	381	229	545	327	735	441
SY02F12-50 DA		733	440	1049	630	-	-
SY02F14-60 DA	F14	1323	793	1891	1134	2552	1531
SY02F14-70 DA		1934	1160	2764	1658	-	-
SY02F16-70 DA	F16	2277	1366	3253	1952	4391	2635
SY02F16-80 DA		3158	1894	4512	2707	-	-
SY02F25-90 DA		4693	2815	6705	4023	-	-
SY02F25-100 DA	F25	6032	3755	8618	5171	9051	5430
SY02F25-110 DA		7514	4509	-	-	-	-
SY02F30-110 DA	F30	8682	5210	12404	7443	16745	10047
SY02F30-120 DA		10665	6398	15237	9141	20569	12340
SY02F30-130 DA		12820	7691	18315	10988	-	-
SY02F35-130 DA	F35	15219	9132	21743	13046	29352	17611
SY02F35-150 DA		21362	12817	30518	18311	-	-
SY02F35-170 DA		28383	17029	-	-	-	-
SY02F40-170 DA	F40	31967	19180	45669	27401	61652	36991
SY02F40-190 DA		41558	24935	59369	35621	-	-
SY02F40-220 DA		57942	34765	-	-	-	-
SY02F48-190 DA	F48	47756	28653	68223	40933	92101	55260
SY02F48-220 DA		67031	40218	95758	57455	129274	77564
SY02F48-245 DA		85247	51148	121783	73069	-	-
SY02F48-270 DA		105423	63254	-	-	-	-
SY02F60-245 DA	F60	109849	65909	156927	94156	211851	127110
SY02F60-270 DA		137086	82251	195838	117502	264381	158627
SY02F60-320 DA		199494	1186696	284993	170995	-	-



DIMENSIONS (mm)

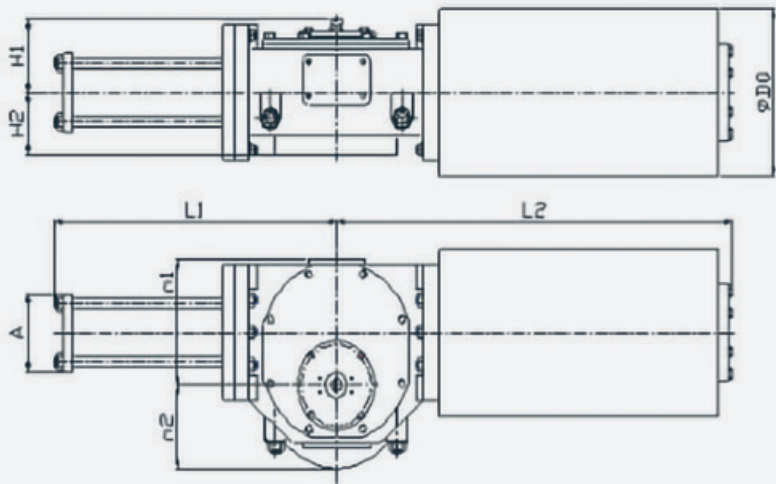
Series	Flange	L1	L2	m1	m2	H1	H2	A	Inlet Size
SY02F10-40 DA	F10	345	124	82	123	102	82	85	1/4"
SY02F12-40 DA	F12	398	140	87	143	105	85	85	1/4"
SY02F12-50 DA		398	140	87	143	105	85	90	1/4"
SY02F14-60 DA	F14	455	170	89	155	114	87	100	1/4"
SY02F14-70 DA		455	170	89	155	114	87	110	1/4"
SY02F16-70 DA	F16	530	194	105	180	119	98	110	1/4"
SY02F16-80 DA		530	194	105	180	119	98	125	1/4"
SY02F25-90 DA		610	226	150	222	138	122	135	3/8"
SY02F25-100 DA	F25	610	226	150	222	138	122	145	3/8"
SY02F25-110 DA		610	226	150	222	138	122	150	3/8"
SY02F30-110 DA	F30	730	275	175	262	163	139	150	3/8"
SY02F30-120 DA		730	275	175	262	163	139	170	3/8"
SY02F30-130 DA		730	275	175	262	163	139	186	3/8"
SY02F35-130 DA	F35	855	332	207.5	320	180	177	186	3/8"
SY02F35-150 DA		855	332	207.5	320	180	177	200	3/8"
SY02F35-170 DA		855	332	207.5	320	180	177	210	1/2"
SY02F40-170 DA	F40	990	402	237.5	377	202	190	210	1/2"
SY02F40-190 DA		990	402	237.5	377	202	190	285	1/2"
SY02F40-220 DA		990	402	237.5	377	202	190	310	1/2"
SY02F48-190 DA	F48	1150	475	280	450	238	227	285	1/2"
SY02F48-220 DA		1150	475	280	450	238	227	310	1/2"
SY02F48-245 DA		1150	475	280	450	238	227	350	1/2"
SY02F48-270 DA		1150	475	280	450	238	227	385	1/2"
SY02F60-245 DA	F60	1420	468	343	545	240	230	350	1/2"
SY02F60-270 DA		1420	468	343	545	240	230	395	1/2"
SY02F60-320 DA		1420	468	343	545	240	230	440	1/2"

TORQUE & DIMENSIONS

SPRING RETURN

TORQUE SHEET (Nm)

Series	Flange	Spring			Output Torque Hydraulic Pressure								
					70 bar			100 bar			135 bar		
		START	RUNNING	END	START	RUNNING	END	START	RUNNING	END	START	RUNNING	END
SY02F10-40 SRA	F10	181	88	114	190	94	123	321	173	254	473	264	407
SY02F10-40 SRB		284	144	195	-	-	-	-	-	-	394	210	299
SY02F10-50 SRB		284	144	195	392	208	303	644	359	554	-	-	-
SY02F10-50 SRC		474	235	309	-	-	-	529	268	364	823	444	658
SY02F10-60 SRC		474	235	309	622	323	457	-	-	-	-	-	-
SY02F12-50 SRA	F12	510	259	353	-	-	-	-	-	-	976	336	737
SY02F12-60 SRA		510	259	353	725	363	486	1224	663	986	-	-	-
SY02F12-50 SRB		793	395	525	-	-	-	-	-	-	891	454	622
SY02F12-60 SRB		793	395	525	-	-	-	1140	602	870	-	-	-
SY02F12-70 SRB		793	395	525	1149	609	880	-	-	-	-	-	-
SY02F14-60 SRA	F14	1047	527	654	-	-	-	1238	635	880	1899	1032	1543
SY02F14-70 SRA		1047	527	654	1281	662	924	-	-	-	-	-	-
SY02F14-60 SRB		1433	729	920	-	-	-	-	-	-	1625	823	1119
SY02F14-70 SRB		1433	729	920	1712	875	1206	1836	950	1330	-	-	-
SY02F14-70 SRC		2222	1127	1414	-	-	-	-	-	-	2285	1123	1461
SY02F14-80 SRC		2222	1127	1414	-	-	-	2325	1148	1501	-	-	-
SY02F14-100 SRC		2222	1127	1414	2887	1484	2061	-	-	-	-	-	-



DIMENSIONS (mm)

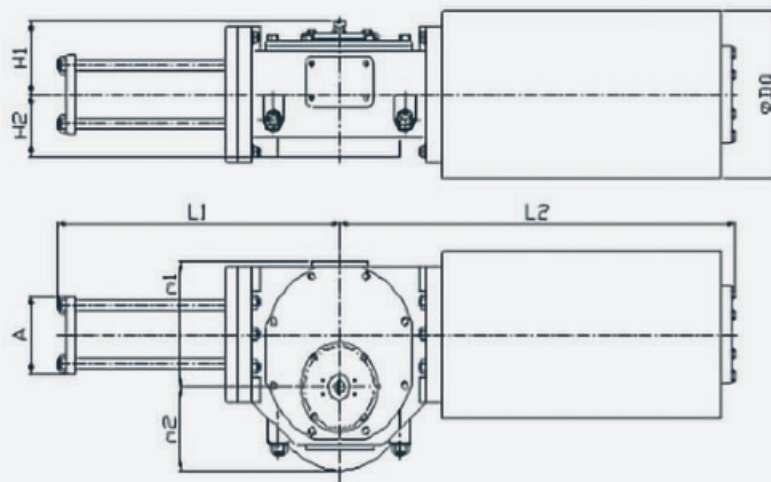
Series	Flange	L1	L2	m1	m2	H1	H2	A	DO	Inlet Size
SY02F10-40 SRA	F10	345	465	82	123	102	82	85	168	1/4"
SY02F10-40 SRB		345	465	82	123	102	82	85	168	1/4"
SY02F10-50 SRB		345	465	82	123	102	82	90	168	1/4"
SY02F10-50 SRC		345	465	82	123	102	82	90	219	1/4"
SY02F10-60 SRC		345	465	82	123	102	82	100	219	1/4"
SY02F12-50 SRA	F12	398	515	105	180	119	98	90	219	1/4"
SY02F12-60 SRA		398	515	105	180	119	98	100	219	1/4"
SY02F12-50 SRB		398	515	105	180	119	98	90	219	1/4"
SY02F12-60 SRB		398	515	105	180	119	98	100	219	1/4"
SY02F12-70 SRB		398	515	105	180	119	98	110	219	1/4"
SY02F14-60 SRA	F14	455	619	89	155	114	87	100	273	1/4"
SY02F14-70 SRA		455	619	89	155	114	87	110	273	1/4"
SY02F14-60 SRB		455	619	89	155	114	87	100	325	1/4"
SY02F14-70 SRB		455	619	89	155	114	87	110	325	1/4"
SY02F14-70 SRC		455	619	89	155	114	87	110	325	1/4"
SY02F14-80 SRC		455	619	89	155	114	87	125	325	1/4"
SY02F14-100 SRC		455	619	89	155	114	87	145	325	3/8"

TORQUE & DIMENSIONS

SPRING RETURN

TORQUE SHEET (Nm)

Series	Flange	Spring			Output Torque Hydraulic Pressure								
					70 bar			100 bar			135 bar		
		START	RUNNING	END	START	RUNNING	END	START	RUNNING	END	START	RUNNING	END
SY02F16-70 SRA	F16	2517	1271	1580	-	-	-	-	-	-	2778	2042	1847
SY02F16-80 SRA		2517	1271	1580	-	-	-	2898	1460	1967	-	-	-
SY02F16-90 SRA		2517	1271	1580	2543	1246	1612	-	-	-	-	-	-
SY02F16-80 SRB		3098	1588	2022	-	-	-	-	-	-	4031	2071	2872
SY02F16-90 SRB		3098	1588	2022	-	-	-	3879	1980	2720	-	-	-
SY02F16-100 SRB		3098	1588	2022	3214	1580	2053	-	-	-	-	-	-
SY02F16-80 SRC		3742	1895	2373	-	-	-	-	-	-	3681	1789	2281
SY02F16-100 SRC		3742	1895	2373	-	-	-	5125	2654	3724	-	-	-
SY02F16-110 SRC		3742	1895	2373	4097	2038	2698	-	-	-	-	-	-
SY02F25-90 SRA	F25	4806	2392	2909	-	-	-	-	-	-	6247	3248	4579
SY02F25-100 SRA		4806	2392	2909	-	-	-	5814	2989	4147	-	-	-
SY02F25-110 SRA		4806	2392	2909	4719	2374	2826	-	-	-	-	-	-
SY02F25-100 SRB		6136	3023	3614	-	-	-	-	-	-	7978	4153	5865
SY02F25-110 SRB		6136	3023	3614	-	-	-	7077	3612	4963	-	-	-
SY02F25-120 SRB		6136	3023	3614	5479	2653	3365	-	-	-	-	-	-
SY02F25-100 SRC		7399	3638	4578	-	-	-	-	-	-	6908	3344	4236
SY02F25-120 SRC		7399	3638	4578	-	-	-	8324	4192	5652	-	-	-
SY02F25-140 SRC		7399	3638	4578	8075	4043	5404	-	-	-	-	-	-



DIMENSIONS (mm)

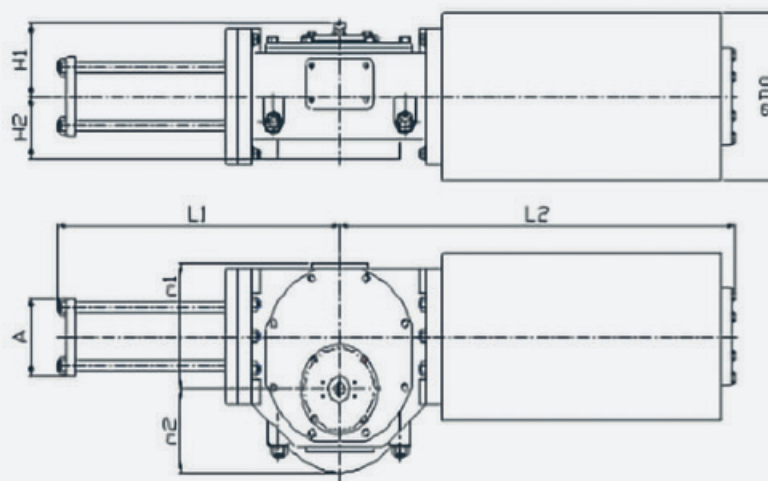
Series	Flange	L1	L2	m1	m2	H1	H2	A	D0	Inlet Size
SY02F16-70 SRA	F16	530	775	105	180	119	98	110	325	1/4"
SY02F16-80 SRA		530	775	105	180	119	98	125	325	1/4"
SY02F16-90 SRA		530	775	105	180	119	98	135	325	3/8"
SY02F16-80 SRB		530	775	105	180	119	98	125	325	1/4"
SY02F16-90 SRB		530	775	105	180	119	98	135	325	3/8"
SY02F16-100 SRB		530	775	105	180	119	98	145	325	3/8"
SY02F16-80 SRC		530	775	105	180	119	98	125	325	1/4"
SY02F16-100 SRC		530	775	105	180	119	98	145	325	3/8"
SY02F16-110 SRC		530	775	105	180	119	98	150	325	3/8"
SY02F25-90 SRA	F25	610	940	150	222	138	122	135	325	3/8"
SY02F25-100 SRA		610	940	150	222	138	122	145	325	3/8"
SY02F25-110 SRA		610	940	150	222	138	122	150	325	3/8"
SY02F25-100 SRB		610	940	150	222	138	122	145	377	3/8"
SY02F25-110 SRB		610	940	150	222	138	122	150	377	3/8"
SY02F25-120 SRB		610	940	150	222	138	122	170	377	3/8"
SY02F25-100 SRC		610	940	150	222	138	122	145	426	3/8"
SY02F25-120 SRC		610	940	150	222	138	122	170	426	3/8"
SY02F25-140 SRC		610	940	150	222	138	122	190	426	3/8"

TORQUE & DIMENSIONS

SPRING RETURN

TORQUE SHEET (Nm)

Series	Flange	Spring			Output Torque Hydraulic Pressure								
					70 bar			100 bar			135 bar		
		START	RUNNING	END	START	RUNNING	END	START	RUNNING	END	START	RUNNING	END
SY02F30-110 SRA	F30	9094	4571	5649	-	-	-	-	-	-	11217	5657	7640
SY02F30-120 SRA		9094	4571	5649	-	-	-	9708	4751	6130	-	-	-
SY02F30-140 SRA		9094	4571	5649	9619	4698	6041	-	-	-	-	-	-
SY02F30-120 SRB		11083	5569	6879	-	-	-	-	-	-	13526	6823	9217
SY02F30-130 SRB		11083	5569	6879	-	-	-	11271	5470	6962	-	-	-
SY02F30-150 SRB		11083	5569	6879	10603	5069	6294	-	-	-	-	-	-
SY02F30-130 SRC		13658	6743	8094	-	-	-	-	-	-	16444	8429	11653
SY02F30-150 SRC		13658	6743	8094	-	-	-	16929	8720	12138	-	-	-
SY02F30-170 SRC		13658	6743	8094	14883	7491	10091	-	-	-	-	-	-
SY02F35-130 SRA	F35	17639	8701	10429	-	-	-	-	-	-	18846	9564	13037
SY02F35-150 SRA		17639	8701	10429	-	-	-	20012	10264	14202	-	-	-
SY02F35-170 SRA		17639	8701	10429	17877	8983	12067	-	-	-	-	-	-
SY02F35-150 SRB		23148	11419	13686	-	-	-	-	-	-	28147	14638	20647
SY02F35-170 SRB		23148	11419	13686	-	-	-	27495	14247	19996	-	-	-
SY02F35-190 SRB		23148	11419	13686	23229	11687	15729	-	-	-	-	-	-
SY02F35-170 SRC		28084	13905	16769	-	-	-	-	-	-	37246	19240	26889
SY02F35-190 SRC		28084	13905	16769	-	-	-	34337	17495	23980	-	-	-
SY02F35-220 SRC		28084	13905	16769	32280	16261	21923	-	-	-	-	-	-



DIMENSIONS (mm)

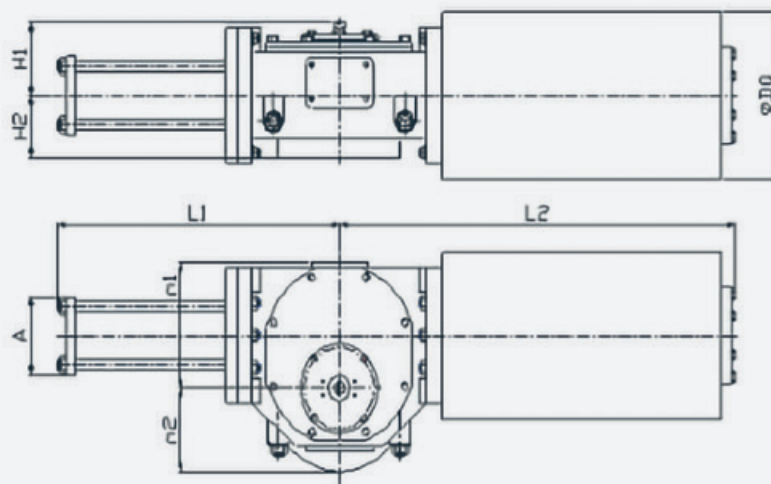
Series	Flange	L1	L2	m1	m2	H1	H2	A	DO	Inlet Size
SY02F30-110 SRA	F30	730	1165	175	262	163	139	150	426	3/8"
SY02F30-120 SRA		730	1165	175	262	163	139	170	426	3/8"
SY02F30-140 SRA		730	1165	175	262	163	139	190	508	3/8"
SY02F30-120 SRB		730	1165	175	262	163	139	170	508	3/8"
SY02F30-130 SRB		730	1165	175	262	163	139	186	508	3/8"
SY02F30-150 SRB		730	1165	175	262	163	139	200	508	3/8"
SY02F30-130 SRC		730	1165	175	262	163	139	186	508	3/8"
SY02F30-150 SRC		730	1165	175	262	163	139	200	508	3/8"
SY02F30-170 SRC		730	1165	175	262	163	139	210	508	1/2"
SY02F35-130 SRA	F35	855	1511	2075	320	180	177	186	508	3/8"
SY02F35-150 SRA		855	1511	2075	320	180	177	200	508	3/8"
SY02F35-170 SRA		855	1511	2075	320	180	177	210	508	1/2"
SY02F35-150 SRB		855	1511	2075	320	180	177	200	630	3/8"
SY02F35-170 SRB		855	1511	2075	320	180	177	210	630	1/2"
SY02F35-190 SRB		855	1511	2075	320	180	177	285	630	1/2"
SY02F35-170 SRC		855	1511	2075	320	180	177	210	630	1/2"
SY02F35-190 SRC		855	1511	2075	320	180	177	285	630	1/2"
SY02F35-220 SRC		855	1511	2075	320	180	177	310	630	1/2"

TORQUE & DIMENSIONS

SPRING RETURN

TORQUE SHEET (Nm)

Series	Flange	Spring			Output Torque Hydraulic Pressure								
					70 bar			100 bar			135 bar		
		START	RUNNING	END	START	RUNNING	END	START	RUNNING	END	START	RUNNING	END
SY02F40-170 SRA	F40	34362	17171	21029	-	-	-	-	-	-	40375	20273	27202
SY02F40-190 SRA		34362	17171	21029	-	-	-	38092	18903	24918	-	-	-
SY02F40-220 SRA		34362	17171	21029	36665	18047	23491	-	-	-	-	-	-
SY02F40-190 SRB		46310	23167	28421	-	-	-	-	-	-	53748	26909	35949
SY02F40-220 SRB		46310	23167	28421	-	-	-	56367	28484	38575	-	-	-
SY02F40-245 SRB		46310	23167	28421	47026	22876	29227	-	-	-	-	-	-
SY02F48-190 SRA	F48	55628	27829	34144	-	-	-	-	-	-	59195	28936	37259
SY02F48-220 SRA		55628	27829	34144	-	-	-	62853	31131	40917	-	-	-
SY02F48-245 SRA		55628	27829	34144	52342	24824	30406	-	-	-	-	-	-
SY02F48-220 SRB		67514	33744	41339	-	-	-	-	-	-	86289	44585	62328
SY02F48-245 SRB		67514	33744	41339	-	-	-	78799	40090	54837	-	-	-
SY02F48-270 SRB		67514	33744	41339	62440	30275	38478	-	-	-	-	-	-
SY02F48-245 SRC		80200	40491	50417	-	-	-	-	-	-	112860	59022	83879
SY02F48-270 SRC		80200	40491	50417	-	-	-	99059	50741	70078	-	-	-
SY02F48-290 SRC		80200	40491	50417	71429	34162	42447	-	-	-	-	-	-
SY02F60-220 SRA	F60	93014	46328	56432	-	-	-	-	-	-	110951	57038	79175
SY02F60-245 SRA		93014	46328	56432	-	-	-	98898	49634	66551	-	-	-
SY02F60-270 SRA		93014	46328	56432	83615	40636	51839	-	-	-	-	-	-
SY02F60-245 SRB		108998	55369	69611	-	-	-	-	-	-	141898	72647	100259
SY02F60-270 SRB		108998	55369	69611	-	-	-	125885	63038	87125	-	-	-
SY02F60-320 SRB		108998	55369	69611	129541	65233	8790	-	-	-	-	-	-



DIMENSIONS (mm)

Series	Flange	L1	L2	m1	m2	H1	H2	A	D0	Inlet Size
SY02F40-170 SRA	F40	990	1760	2375	377	202	190	210	630	1/2"
SY02F40-190 SRA		990	1760	2375	377	202	190	285	630	1/2"
SY02F40-220 SRA		990	1760	2375	377	202	190	310	630	1/2"
SY02F40-190 SRB		990	1760	2375	377	202	190	285	730	1/2"
SY02F40-220 SRB		990	1760	2375	377	202	190	310	730	1/2"
SY02F40-245 SRB		990	1760	2375	377	202	190	350	730	1/2"
SY02F48-190 SRA	F48	1150	2305	280	450	238	227	285	730	1/2"
SY02F48-220 SRA		1150	2305	280	450	238	227	310	730	1/2"
SY02F48-245 SRA		1150	2305	280	450	238	227	350	730	1/2"
SY02F48-220 SRB		1150	2305	280	450	238	227	310	730	1/2"
SY02F48-245 SRB		1150	2305	280	450	238	227	350	730	1/2"
SY02F48-270 SRB		1150	2305	280	450	238	227	385	730	1/2"
SY02F48-245 SRC		1150	2305	280	450	238	227	350	730	1/2"
SY02F48-270 SRC		1150	2305	280	450	238	227	385	730	1/2"
SY02F48-290 SRC		1150	2305	280	450	238	227	405	730	1/2"
SY02F60-220 SRA	F60	1420	3100	343	545	240	230	310	730	1/2"
SY02F60-245 SRA		1420	3100	343	545	240	230	350	730	1/2"
SY02F60-270 SRA		1420	3100	343	545	240	230	385	730	1/2"
SY02F60-245 SRB		1420	3100	343	545	240	230	350	730	1/2"
SY02F60-270 SRB		1420	3100	343	545	240	230	385	730	1/2"
SY02F60-320 SRB		1420	3100	343	545	240	230	440	730	1/2"

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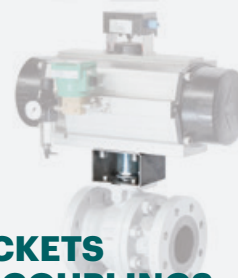
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