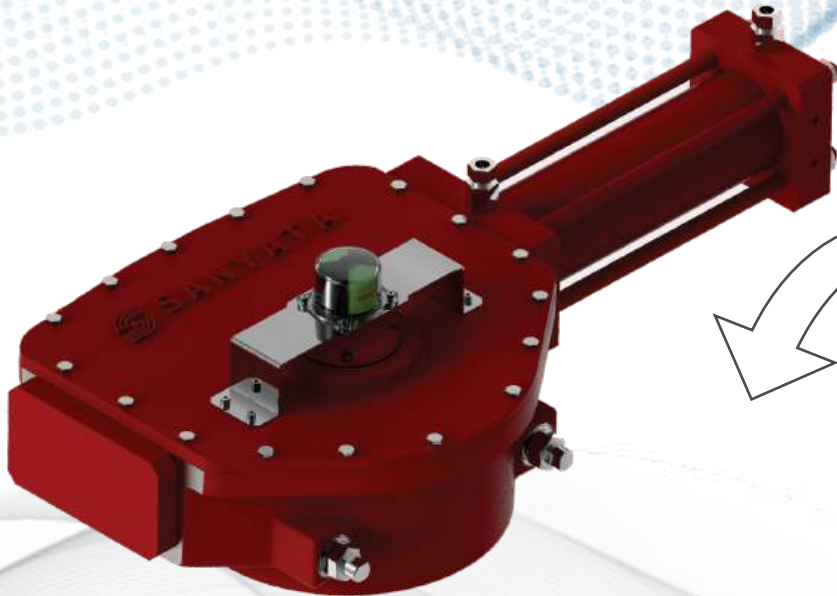




SANYATA

Actuation and Fluid Engineering



Solutions that turn
things around for you



SAFEHydraulic Series Large Hydraulic Actuators

Scotch Yoke Symmetric and Canted





» ABOUT SANYATA

Sanyata Actuation and Fluid Engineering (S.A.F.E.), is an established actuation OEM focused on creating a world class range of actuation products. Employee owned, by actuator industry veterans, we have a laser-like focus on customer needs and are very responsive. End users and valve OEMs will find optimally engineered products that are fit for purpose across a wide range of applications. All products reflect our deeply held passion for design innovation and a commitment to world-class manufacturing. Certified, tested and made to global standards such as ATEX/IECEX/SIL3 and with local regulatory approvals such as PESO and TR-CU.

» SAFEHydraulic ACTUATORS

The SAFEHydraulic range of actuators provide the user with the widest selection of actuators with the shortest heights, superb weight/torque ratios, with several accessories included as standard. Packed with several innovative features, the entire range has been rigorously tested and comes with all the right credentials for your valve application. The lead times for these products are amongst the shortest of any major manufacturer and we are the first to offer a seamless online ordering experience.

Precision honed cylinders provide very smooth operation with reduced friction, thus ensuring consistent performance over an extended operating life.

Strong Best in class industry processes are used to manufacture these actuators which result in class leading torque/- weight ratios.

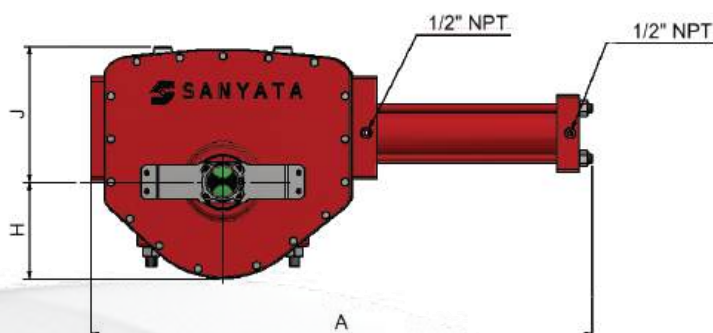
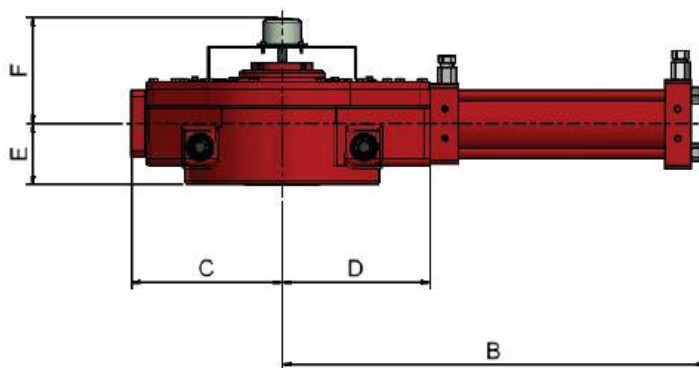
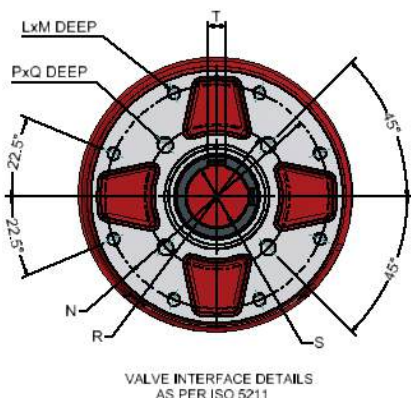
Compact Designed to provide high torque with minimum space and weight.
Safe Springs are enclosed in a separate welded container for additional safety and flexibility.

» KEY FEATURES

- Widest Range of torque selections available, from 500 N-m to 200,000 N-m
- One of the best torque to weight ratios in the market.
- Actuators are field convertible from double acting to single acting and vice versa.
- Stop bolts are provided on the centre body to avoid leakages.
- High visibility dome indicator and Double End Stops are standard, not a cost adder!
- Various coating options are available to suit your process needs.



» OVERALL DIMENSIONS



» SIZE TABLE :

Large Hydraulic DA Dimensions																			
Model	A	B	C	D	E	F	H	J	K	L	M	N	P	Q	R	S	T	ISO	Weight (Kg)
SYH250	875	645	230	225	92.6	162	168	151	1/2"	M16	24	254	M20	30	165	65	18	F16/F25	100
SYH260	875	645	230	226	92.6	162	168	151	1/2"	M16	24	254	M20	30	165	65	18	F16/F25	120
SYH270	875	645	230	227	92.6	162	168	151	1/2"	M16	24	254	M20	30	165	65	18	F16/F25	140
SYH280	974	714	260	274	120	184	174	298	1/2"	M16	254	254	M20	30	165	70	20	F16/F25	175
SYH290	974	714	260	274	120	184	174	298	1/2"	M16	24	254	M20	30	165	70	20	F16/F25	195
SYH300	974	714	260	274	120	184	174	298	1/2"	M16	24	254	M20	30	165	70	20	F16/F25	215
SYH310	1236	902	334	342	134	201	193	383	1/2"	M20	30	298	M16	24	254	110	28	F25/F30	280
SYH320	1236	902	334	342	134	201	193	383	1/2"	M20	30	298	M16	24	254	110	28	F25/F30	300
SYH330	1236	902	334	342	134	201	193	383	1/2"	M20	30	298	M16	24	254	110	28	F25/F30	320
SYH340	1486	1068	418	398	163	246	235	453	1"	M30	45	356	M20	30	298	140	36	F30/F35	530
SYH350	1486	1068	418	398	163	246	235	453	1"	M30	45	356	M20	30	298	140	36	F30/F35	555
SYH360	1486	1068	418	398	163	246	235	453	1"	M30	45	356	M20	30	298	140	36	F30/F35	575
SYH370	1784	418	492	494	202	255	260	556	1"	M36	54	406	-	-	-	-	-	F40	740
SYH380	1784	418	492	494	202	255	260	556	1"	M36	54	406	-	-	-	-	-	F40	765
SYH390	1784	418	492	494	202	255	260	556	1"	M36	54	483	-	-	-	-	-	F40	785
SYH430	2410	1745	665	667	273	344	365	751	1"	M36	54	483	-	-	-	-	-	F48	1000
SYH440	2410	1745	665	667	273	344	365	751	1"	M36	54	483	-	-	-	-	-	F48	1025
SYH450	2410	1745	665	667	273	344	365	751	1"	M36	54	483	-	-	-	-	-	F48	1050

- Please contact Sanyata for dimensional details of spring return actuators.
- For custom Bore and keyway, please contact Sanyata.

» TECHNICAL SPECIFICATION

Working Pressures

Max operating pressure – 200 bar (2900 psig)

Working Environment

Standard : -30°C to 70°C (-22°F to 158°F) with NBR Seals

High Temperature : -15°C to 160°C (5°F to 320°F) with Viton Seals

Extended Temperature : - 60°C to 200°C (-140°F to 392°F) with Silicone Seals

Low Temperature : - 50°C to 70°C (-58°F to 158°F) with LNBR Seals

Endurance Testing

Designed and tested for life cycles according to EN15714-4 (certified by TUV Nord).

Valve Interface

Valve Flange Interface : ISO 5211 / DIN 3337

Valve Shaft Interface : ISO 5211

Hydraulic Supply Ports

ASME B1.20.3 Ports - 1/2"NPTF or 1"NPTF based on the actuator

Accessories

VDI/VDE3845 NAMUR

Lubrication

Lubricated for life

Centre body

High strength ductile iron center body

Manual Override

Hydraulic hand pump manual override is available as an option across all models.

Approvals and Industry Standards:

Management System in Accordance with ISO 9001:2015

Valve flange : ISO 5211/DIN3337

Accessory flange : VDE/VDI 3845

Complies with EN60529 for IP68 (NAMUR)

European Directives : A TEX 2014/34/EU, PED and CE

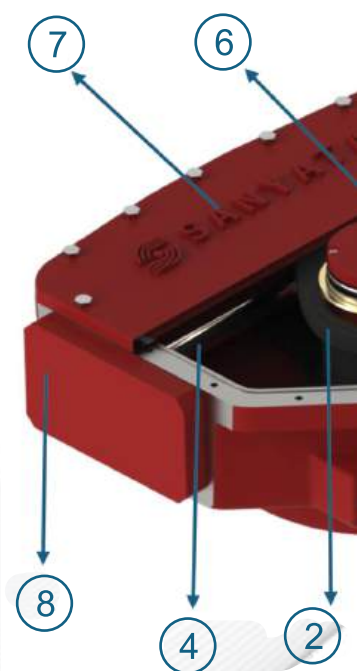
Coating Options:

Epoxy Coating

Duraflon PTFE Coating

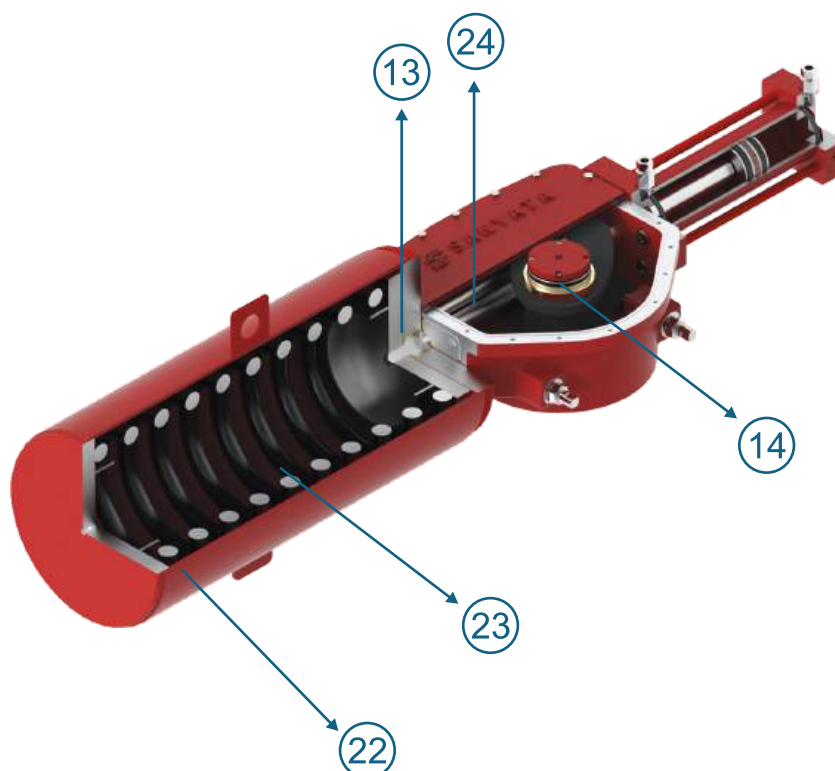
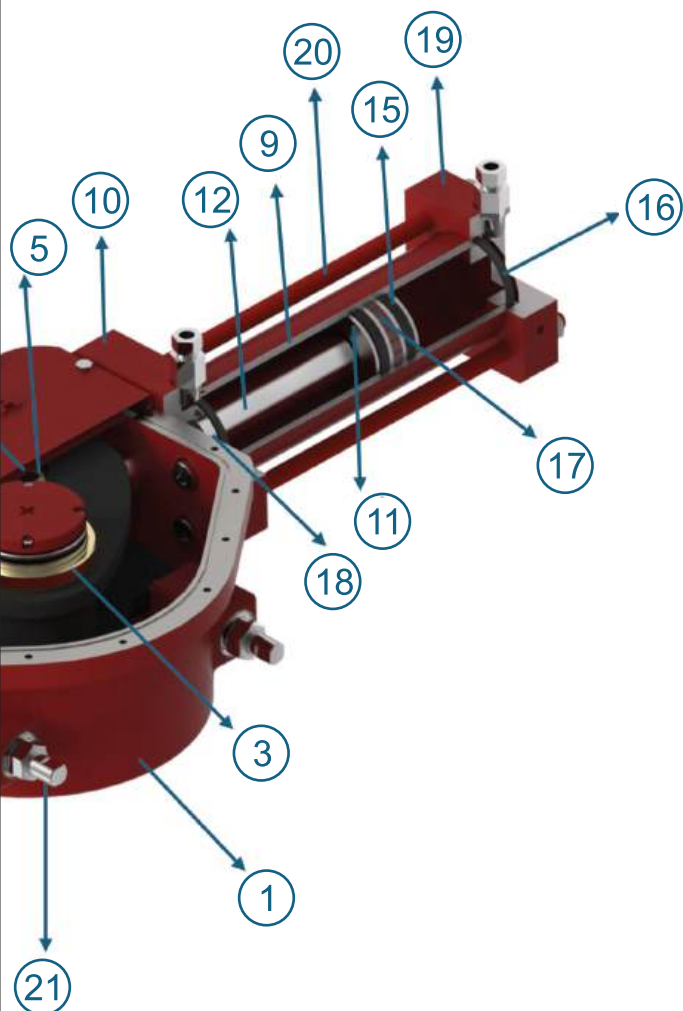
FDA Compliant Epoxy Polyester Coating

Powder Coating



» PART TABLE :

ITEM	DESCRIPTION	MATERIAL
1	Center Body	Ductile Iron
2	Yoke	Ductile Iron
3	Yoke Bush	Bronze
4	Guide Rod	Steel
5	Sliding Block	Bronze
6	Guide Block	Steel
7	Top Cover	Ductile Iron
8	Cover Plate	Steel
9	Hydraulic Cylinder	Steel
10	Head Flange	Steel
11	Piston	Steel
12	Piston Rod	Steel
13	Bearing Bush	Bronze
14	O-Ring	Rubber
15	Seal	Rubber
16	Seal	Rubber
17	Wear Ring	PTFE
18	Seal	Rubber
19	Tail Flange	Steel
20	Tie Rod	Steel
21	Stop Bolt	Steel
22	Spring Cartridge	Steel
23	Spring	Steel
24	Spring Shaft	Steel

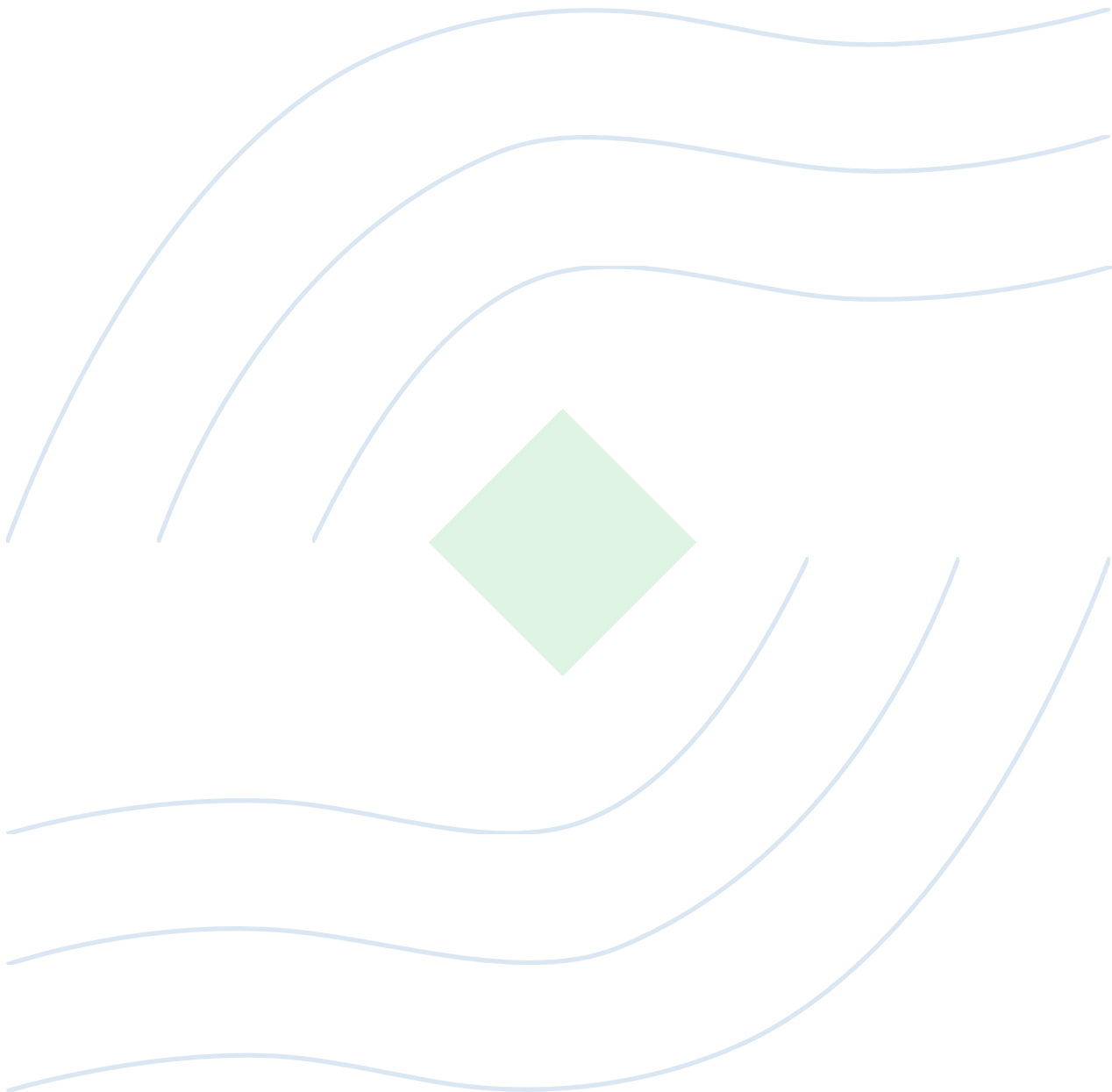


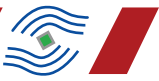


» NAMING SCHEME

	SYH	300	FC	4	N	C	13	1	S	1	X
Product Series SYH, SYCH											
Size 250, 260, 270, 280, 290, 300, 310, 330, 330, 340, 350, 360, 370, 380, 390, 430, 440, 450											
Action DA : Double Acting FC : Spring Return, Fail to Close : (Clockwise) FO : Spring Return, Fail to Open : (Counter Clockwise)											
Spring Set X, 1,2,3,4,5,6 (Use X for Double Acting)											
Manual Override Y : Yes N : No											
“Material of Construction (Centre body)” C : Carbon Steel D : Ductile Iron as option above											
Valve Flange Interface 10 : F30 16 : F25/F30 11 : F35 17 : F30/F35 12 : F40 20 : F48 15 : F16/F25											
Valve Stem Interface 1 : Double Square 2 : Bore and Keyway 3 : Double D											
Environment S : Standard Temp E : Extended Temp H : High Temp L : Low Temp F : Food Grade											
Coating 2 : Epoxy coating 3 : Duration PTFE coating 4 : FDA Complaint Epoxy Polyester coating 6 : Powder coating											
Specials X-None											







CONTACT US



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