tork
valve & automation

fluid under control

PNEUMATIC ACTUATED GLOBE VALVES

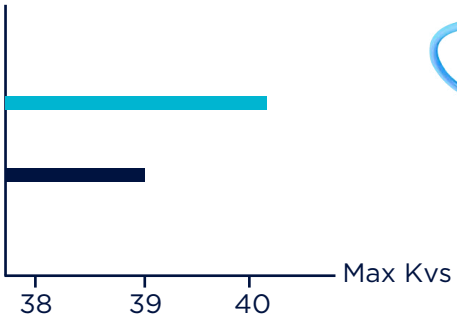
TORK LV 3000 SERIES

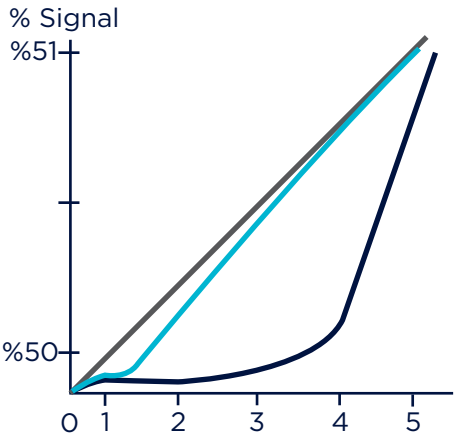
EAC CE 2354 UL SIL 3 ROHS TSE ATEX bsi. ISO 9001 Quality Management ISO 14001 Environmental Management OHSAS 18001 Occupational Health and Safety Management TS 16949 Automotive Quality Management

www.smstork.com

Smaller valve size for a given application

- Highest possible seat diameter (DN = Seet Ø)
- High trottling rangebility
- Longest possible stroke





Better step % Response

- Agile actuator
- Precise positioning accuracy
- Very low friction

TORK LV 3000 SERIES

Components

Actuator

• Reliable, powerful actuator system for accurate valve positioning.
• High actuation force generated by maximum 6 bar air.
• Compact dimensions due to multispring.
• Fast, agile response due to minimized air volume.
• High ambient temperature (85˚C).
• Guided movement of stem for high stability.
• Membrane with kevlar fabric reinforcement for long life, high accuracy, linearity,
• Virtualy maintenance free design
• Optional manual hand wheel system

Yoke

• Extremely robust yoke
• Construction for reability.

Bonnets

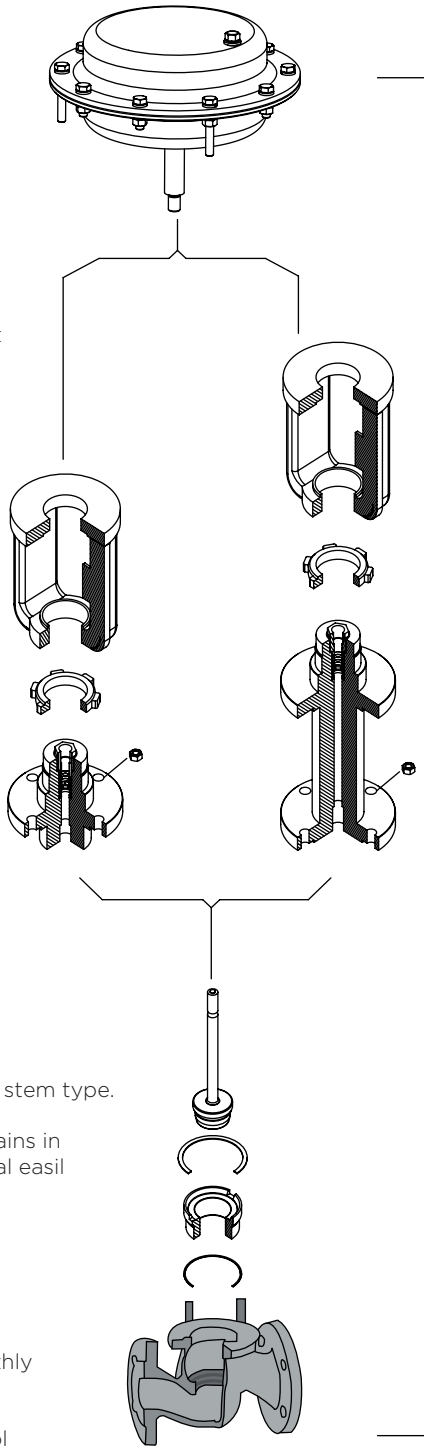
• Quality and Durability for the long run.
• Sturdy dual guided plug stem structure (thanks to the
secondary guide) ensuring vibration free operation
• Maintenance free packing box with spring loading.
• Choice of bonnets for standard or high temperature
• Pressure up to 40 bar, Temperature up to 350˚C.
• Low friction.

Trim

• Multi application versatility.
• Mostly interchangeable trims
• All bellows types use the same/similar plug stem type.
• Easily replacable trim.
• Simple maintenance as the valve body remains in the piping when trim is replaced, screwed seal easil replacable.
• Large flow capacity. (max. seat Ø = DN)

Body

• Optimum flow characteristics due to smoothly engineered.
• Large kvs values
• Excellend flow dynamics and built in control quality.



Wide Range of Applications

• For accurate control of gas, vapour, liquid, pressure, flow and temperature
• Combined with the TORK Positioner TORK Valve offers precise control charecteristic. Optional TORK positioners with HART, PROFIBUS, FOUNDATION, FIELDBUS communication protocols ensures trouble free integration so DCS / PLC / SCADA systems
• Having a modular design TORK valve offers various application possibilities.

Inherent Advantages

• Space efficient overall height and dimensions.

Prompt Delivery

• Almost all sizes of TORK Control Valves can be delivered within 48-72 hours..

Reliable

• Heavy duty construction with high quality materials and workmanships.

Quality

• Quality assurance system of production certificated acc. TÜV Management Service ISO 9001:2000

Coding System

SIZE	ACT. DIAM.	PN25 (GGG50 DUCTILE IRON)	PN40 (GS-C25 CARBON STEEL)	PN40 (1.4581 STAINLESS STEEL)
DN15	300	TORK-LV3000.S 015	TORK-LV3000.K 015	TORK-LV3000.P 015
DN20	300	TORK-LV3000.S 020	TORK-LV3000.K 020	TORK-LV3000.P 020
DN25	300	TORK-LV3000.S 025	TORK-LV3000.K 025	TORK-LV3000.P 025
DN32	300	TORK-LV3000.S 032	TORK-LV3000.K 032	TORK-LV3000.P 032
DN40	300	TORK-LV3000.S 040	TORK-LV3000.K 040	TORK-LV3000.P 040
DN50	450	TORK-LV3000.S 050	TORK-LV3000.K 050	TORK-LV3000.P 050
DN65	450	TORK-LV3000.S 065	TORK-LV3000.K 065	TORK-LV3000.S 065
DN80	700	TORK-LV3000.S 080	TORK-LV3000.K 080	TORK-LV3000.P 080
DN100	700	TORK-LV3000.S 100	TORK-LV3000.K 100	TORK-LV3000.P 100
DN150	700	TORK-LV3000.S 150	TORK-LV3000.K 150	TORK-LV3000.S 150

Coding Form

LV: LINEAR VALVE		
SF: DUCTILE IRON	KC: CARBON STEEL	PS: STAINLESS STEEL
PA: PNEUMATIC ACTUATOR		
300, 450, 700: ACTUATOR DIAMETER		
OK: PROPORTIONAL CONTROL		
015.. 150: VALVE SIZE		

Packing Box

Type of Packing		Standard Bonnet	Belows Metal Bonnet
PTFE V-Rings + Grafite	-10 °C +240 °C, maintenance free spring loaded	•	•
Pure Grafite-Rings	-10 °C +350 °C.		•

Form of Connection, Nominal Pressure Range

Form of Connection		
Connection Face type acc. to DIN2526	Form C	•
	Form D,R,N	•

PN	Nominal Size DN									
	15	20	25	32	40	50	65	80	100	150
16	•	•	•	•	•	•	•	•	•	•
40							•	•	•	•

Pressure - temperature Ratings acc. to DIN 2401

PN (bar)	Body Material	Working Temperature in °C	Nominal Size DN									
			-200	-85	-60	-10	0	120	200	250	300	350
16	GG-25	Working Pressure in bar				16	16	15	13	12	10	
25	GGG50					25	25	24	21.5	19	16.5	15
40	GS-C25					40	40	40	35	32	28	24
	SS316					40	40	35.5	30.5	29	26	24

Leakage - Class acc. DIN/IEC 534 Teil 4 resp. ANSI/FCI 70-2 - 1991

Line Pressure Balancing	Plug Design	Leakage-class acc. DIN/IEC 534	Test Fluid	Test Pressure (bar)	Max. Seat Leakage % kvs
Unbalanced	Metal to metal sealing	IV	Water	Working Pressure, max. 4	0.01
	Soft Sealing	VI	Air	Working Pressure, max. 4	0.0 - bubble-tight

Contoured Plug Modified - equal percentage or linear

[1] Only a modified-equal percentage l

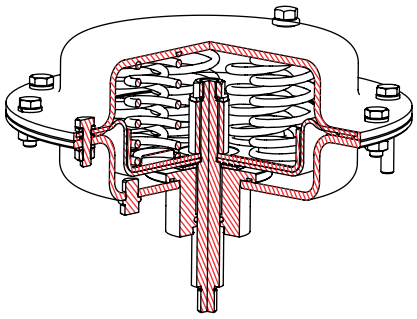
Kvs (m^3/h)	Seat Ø	Standard	Valve Nominal Diameter									
			15	20	25	32	40	50	65	80	100	150
			Stroke = 20 mm							40 mm		60 mm
0.16	4[1]		•	•	•							
0.25	4[1]		•	•	•							
0.40	4[1]		•	•	•							
0.63	6[1]	•	•	•	•							
1	7[1]	•	•	•	•							
1.6	8[1]	•	•	•	•							
2.5	10[1]	•	•	•	•							
4.0	12	•	•	•	•							
5.6	16	•	•									
6.3	16	•		•	•	•						
8	20	•		•								
10	20	•			•	•	•					
14	25	•			•							
16	25	•				•	•	•				
22.4	34	•				•						
25	34	•					•	•				
31.5	40	•					•					
40	42	•						•	•			
47.5	50	•						•				•
63	53	•							•	•		
80	67	•							•			
100	67	•								•	•	•
125	80	•								•		
160	84	•									•	•
180	100	•									•	
250	105	•										•
355	130	•										•

Multi-Spring Actuator TORK LV 3000 (Spring to close)

Typical ranges for Series100 Valve

Effective area (cm^2)	Air supply (bar)	Spring Range (bar)
200	2.9	1.2 - 2.4
	5.5	2.4 - 4.8
300	2.9	1.2 - 2.4
	5.5	2.4 - 4.8
450	2.9	1.2 - 2.4
	5.5	2.4 - 4.8
700	2.9	1.2 - 2.4
	5.5	2.4 - 4.8

Actuator Selection



Actuator Selection for:

Operation:Spring extracted stem, air retracted (Spring to close)
Flow:Tends to open valve without pressure balancing , P=0
Packing Box:PTFE with Graphite
Bonnet:Standart Bonnet

Maximum Pressure Difference For Actuator Selection (Bar)

Sitz Ø	DN	Effective Area (cm^2)	200		300		450		700	
		Spring Range (bar)	1.2 - 2.4	2.4 - 4.8	1.2 - 2.4	2.4 - 4.8	1.2 - 2.4	2.4 - 4.8	1.2 - 2.4	2.4 - 4.8
		Air (bar)	2.9	5.5	2.9	5.5	2.9	5.5	2.9	5.5
6	15, 20, 25	Stroke 20mm	40	40	40	40				
8			40	40	40	40				
10			40	40	40	40				
12			40	40	40	40				
16	15, 20, 25, 32		40	40	40	40				
20	20, 25, 32, 40		38	40	40	40				
25	25, 32, 40, 50		23	36	40	40				
34	40, 50		11	18	31	40				
40	40		7.0	12	22	32				
42	50		6.0	11	20	29				
50			3.7	0.7	13	20				
42	65	Stroke 40mm					40	40	40	40
53	65, 80						27	38	40	40
67	80, 100						16	23	25	35
80	80						11	16	17	24
84	100						10	14	15	22
100							7.0	10	11	15
130	150	Stroke 60mm								

Multi-Spring Actuator TORK LV 3000 (Spring to open)

Typical ranges for Series100 Valve

Effective Area (cm^2)	Supply Air (bar)	Spring Range (bar)
200	3.5	0.5 - 1.9
	5.5	0.5 - 1.9
300	3.5	0.2 - 1.0
	5.5	0.2 - 1.0
450	3.5	0.2 - 1.0
	5.5	0.2 - 1.0
700	3.5	0.2 - 1.0
	5.5	0.2 - 1.0

Actuator Selection:

Operation:Spring extracted stem, air retracted (Spring to close)
Flow:Tends to open valve without pressure balancing , P=0
Packing Box:PTFE with Graphite
Bonnet:Standart Bonnet

Maximum Pressure Difference For Actuator Selection (Bar)

Sitz Ø	DN	Effective Area (cm^2)	200		300		450		700	
		Spring Range (bar)	0.5 - 1.9	0.5 - 1.9	0.2 - 1.0	0.2 - 1.0	0.2 - 1.0	0.2 - 1.0	0.2 - 1.0	0.2 - 1.0
		Air (bar)	3.5	5.5	3.5	5.5	3.5	5.5	3.5	5.5
6	15, 20, 25	Stroke 20mm	40	40	40	40				
8			40	40	40	40				
10			40	40	40	40				
12			40	40	40	40				
16	15, 20, 25, 32		40	40	40	40				
20	20, 25, 32, 40		40	40	40	40				
25	25, 32, 40, 50		26	40	40	40				
34	40, 50		12	33	40	40				
40	40		8.0	23	40	40				
42	50		7.0	21	38	40				
50			4.3	14	26	40				
42	65	Stroke 40mm					40	40	40	40
53	65, 80						40	40	40	40
67	80, 100						30	40	40	40
80	80						21	36	31	40
84	100						19	32	28	37
100							13	22	19	26
130	150	Stroke 60mm								

Electro - Pneumatic and Pneumatic - Pneumatic Positioner

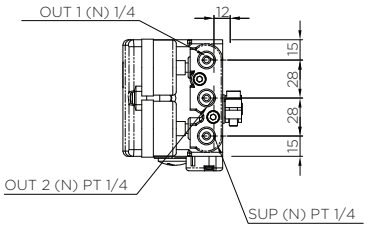
TORK-SS2R Smart Positioner
HART Communication

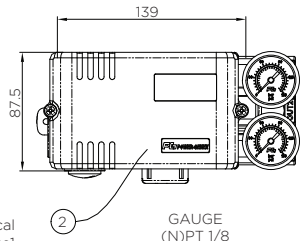
- Easy maintanence
- For rotary actuators
- Vibration resistance
- **Linearity:** %1.5
- **Body:** Aluminium injection
- **Protection Class:** Exmd II BT5(05 ATEX 1076x)
- **Optional:** Exmd II BT5, Ex ia IIBT6
- Stainless manometer standard

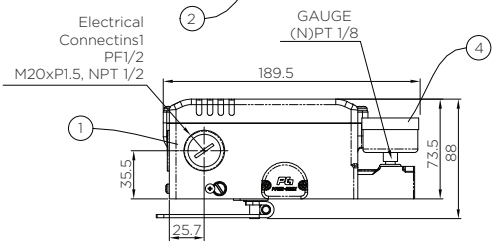
APPLICATION

For pneumatic actuated valves proportional control

TORK-EPR Electromechanic Positioner (Rotary) TORK-EPL Electromechanic Positioner (Lineer)



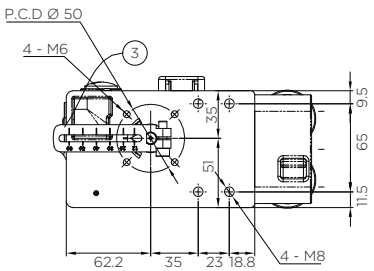




- **Input Signal:** 3-15 psi (0.2-1.0bar)
- **Supply Pressure:** 6 -7 bar

TORK-PP.R
Pneumatic Pneumatic
Rotary Type Positioner

TORK-EPR
Electro - Pneumatic Positioner



Electro - Pneumatic Positioner

TYPE	INPUT SIGNAL and AIR SUPPLY PRESSURE	PROTECTION CLASS	BRACKET	BODY	AIR CONSUMPTION	WEIGHT
TORK-EPR	**mA/bar**	**I/P66**	**Namur**		**LPM**	**(kg)**
TDRK-EP.R Rotary	4-20 mA / max. 7 bar	I/P 66	80x30	Aluminium Die Cast	5 LPM (1.4 Kgf / cm^2)	2.9
TDRK-EP.L Lineer	4-20 mA / max. 7 bar	I/P 66	80x30	Aluminium Die Cast	5 LPM (1.4 Kgf/cm^2)	2.9
TORK-SS.2R Rotary	4-20 mA / max. 7 bar	I/P 66	80x30	Aluminium Die Cast	2 LPM (1.4 Kgf/cm^2)	2.5
TDRK-SS.2L Lineer	4-20 mA / max. 7 bar	I/P 66	80x30	Aluminium Die Cast	2 LPM (1.4 Kgf/cm^2)	2.5

Pneumatic- Pneumatic Positioner

TYPE	INPUT SIGNAL and AIR SUPPLY PRESSURE	REPEATABILITY	BRACKET	BODY	AIR CONSUMPTION	WEIGHT
TORK-EPR	**mA/bar**	**%F.S**	**Namur**		**LPM**	**(kg)**
TDRK-PP.R Rotary	3-15 psi / max. 7 bar	With in ± 05 % F.S	80x30	Aluminium Die Cast	5 LPM (1.4 Kgf / cm^2)	2.1
TDRK-PP.L Lineer	3-15 psi / max. 7 bar	With in ± 05 % F.S	80x30	Aluminium Die Cast	5 LPM (1.4 Kgf/cm^2)	2.1

Electro – Pneumatic Positioner

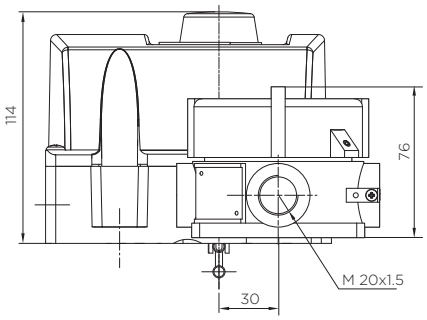
Features

Single acting and double acting actuator
Lineer or Rotary actuator
Univarsal shaft and connection according to VDI / VDE 3845 standard.
IP66 / NEMA 4X standard
Low capacity. Actuator stroke value < 1 dm3 .
Air port connection G1/4"
HART 6 or 7 (H)

Other Options

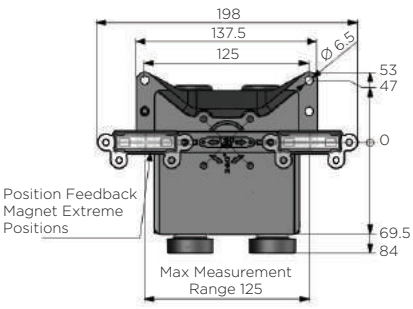
Changable Communication Options:

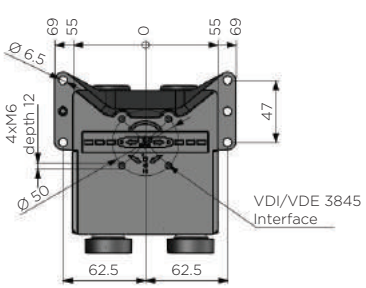
- Fieldbus
- Profibus PA
- Limit switches
- Position transmitter (only HART)
- Stainless steel protection
- Remote control
- Cold resistance (min. -53 °C / -64 °F)



Features

Actuator Type	: Single acting
Model	: Lineer or Rotary
Pneumatic Capasity	: 80 Nm3 /h
Protection	: Compact - IP66 / NEMA 4X kompozit coated epokxy coated eloksal aluminium body
Contact	: HART / 4-20 mA
Temperature Range	: -40 ... +85 °C
Pneumatic Connection	: 1/4 NPT





Manual Control Unit

APPLICATION

• Used in actuated valves. It is used for opening and closing the valve when it is requested to open or close the valve in case the actuators can not perform their duty for any reason (safety purpose).

TYPE	OUTPUT TORQUE VALUE	INPUT TORQUE VALUE	FACTOR: ±10%	CLOSURE OF INNER WHEEL TOUR	ACTUATOR MOUNTING HOLE	ACTUATOR MOUNTING HOLE	ISO CONNECTION		HAND WHEEL	WEIGHT
TORK - MOR	Nm	Nm			mm	mm	VALVE	ACTUATOR		k(g)
TORK-MOR 100	100	13	8	9	25	35	F05/F07	F05/F07	5	5
TORK-MOR 450	450	54	8,4	9,5	30	38	F07/F10	F07/F10	9	9
TORK-MOR 750	750	75	10	11,25	40	50	F10/F12	F10/F12	15	15
TORK-MOR 1500	1500	91	16,5	19	50	60	F12/F14	F12/F14	24	24
TORK-MOR 3500	3500	219	16	18	60	72	F14/F16	F14/F16	49	49
TORK-MOR 5000	5000	278	18	22	100	130	F16/F25	234,6X97,2(#4)	65	65
TORK-MOR 7500	7500	259	29	34,5	100	130	F16/F25	F16/F25	128	128

Electro Pneumatic Transducers 1/P

• Small size, light weight
• Low air consumption
• Mounts at any angle
• CE certificated
• Economic cost
• Different signal output value
• For other options, please contact us.

1/P and E/P Transducer

TYPE	INPUT SIGNAL	OUTPUT SIGNAL	AIR SUPPLY	LINEARITY	AIR SUPPLY	HYSTERESIS	AIR CONSUMPTION	WEIGHT
TORK - 1000	mA / V	psi	bar				kgf / cm³	(kg)
TDRK - 1000 1/P	4-20 Ma	3 - 15 psi	7	< 10 %	± 0.15% of	< 1 % of span	< 1 % of span	0.75
TDRK - 1000 E/P	0 - 5V							0.75

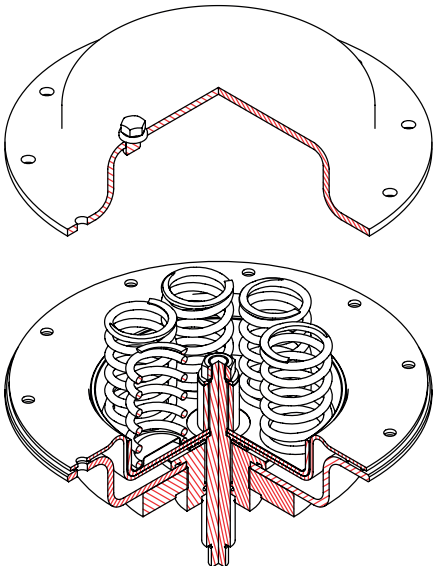
4-20mA/3-15 psi

Position Trasmitter TORK-PT.R

APPLICATION

• Generate 4-20 mA output signal with position feedback from the control valve.

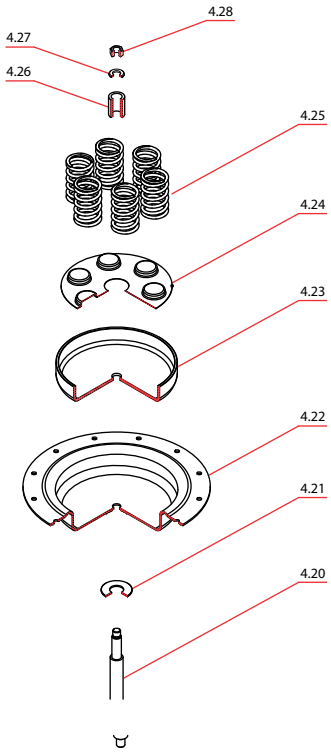
TYPE	OUTPUT SIGNAL	POWER SUPPLY	REPEATABILITY	BODY	PROTECTION CLASS	WEIGHT
TORK - 1000	mA		F.S.			(kg)
TDRK - 1000 1/P	4-20 Ma	12 ... 30VDC	0.25 % F.S.	Auminium die cast	IP 66	2.3

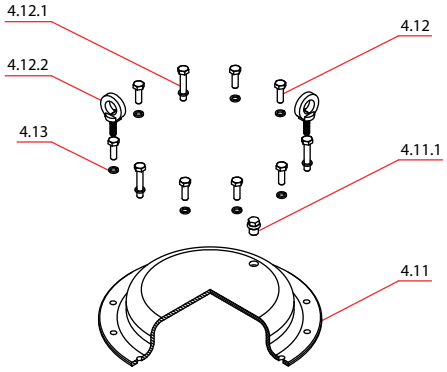


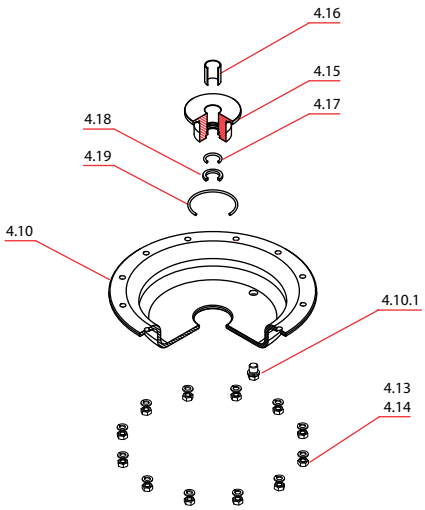
Technical Details

Actuator Size (cm^2)	Stroke (mm)	Spring Range (bar)	Normally Closed		Normally Open	
			Minimum Air Supply (bar)	Spring Close Maximum Force (N)	Maximum Air Supply (bar)	Spring Open Maximum Force (N)
200	20 - 40	0.2 - 1.0	1.2	400	6	10000
		0.5 - 1.9	2.1	1000	6	8200
		1.0 - 2.0	2.2	2000	6	8000
		1.2 - 2.4	2.6	2400	6	7200
		1.5 - 3.0	3.2	3000	6	6000
		2.4 - 4.8	5.0	4800	6	2400
300	20 - 40	0.2 - 1.0	1.2	600	6	15000
		0.5 - 1.9	2.1	1500	6	12300
		1.0 - 2.0	2.2	3000	6	12000
		1.2 - 2.4	2.6	3600	6	10800
		1.5 - 3.0	3.2	4500	6	9000
		1.5 - 3.8	4.0	4500	6	6600
		2.4 - 4.8	5.0	7200	6	3600
450	20 - 40	0.2 - 1.0	1.2	900	6	22500
		0.5 - 1.9	2.1	2250	6	18450
		1.0 - 2.0	2.2	4500	6	18000
		1.2 - 2.4	2.6	5400	6	16200
		1.5 - 3.0	3.2	6750	6	13500
		1.5 - 3.8	4.0	6750	6	9900
		2.4 - 4.8	5.0	10800	6	5400
700	40 - 60	0.2 - 1.0	1.2	1400	6	35000
		0.5 - 1.9	2.1	3500	6	28700
		1.0 - 2.0	2.2	7000	6	28000
		1.2 - 2.4	2.6	8400	6	25200
		1.5 - 3.0	3.2	10500	6	21000
		1.5 - 3.8	4.0	10500	6	15400
		2.4 - 4.8	5.0	16800	6	8400

Actuator Part List

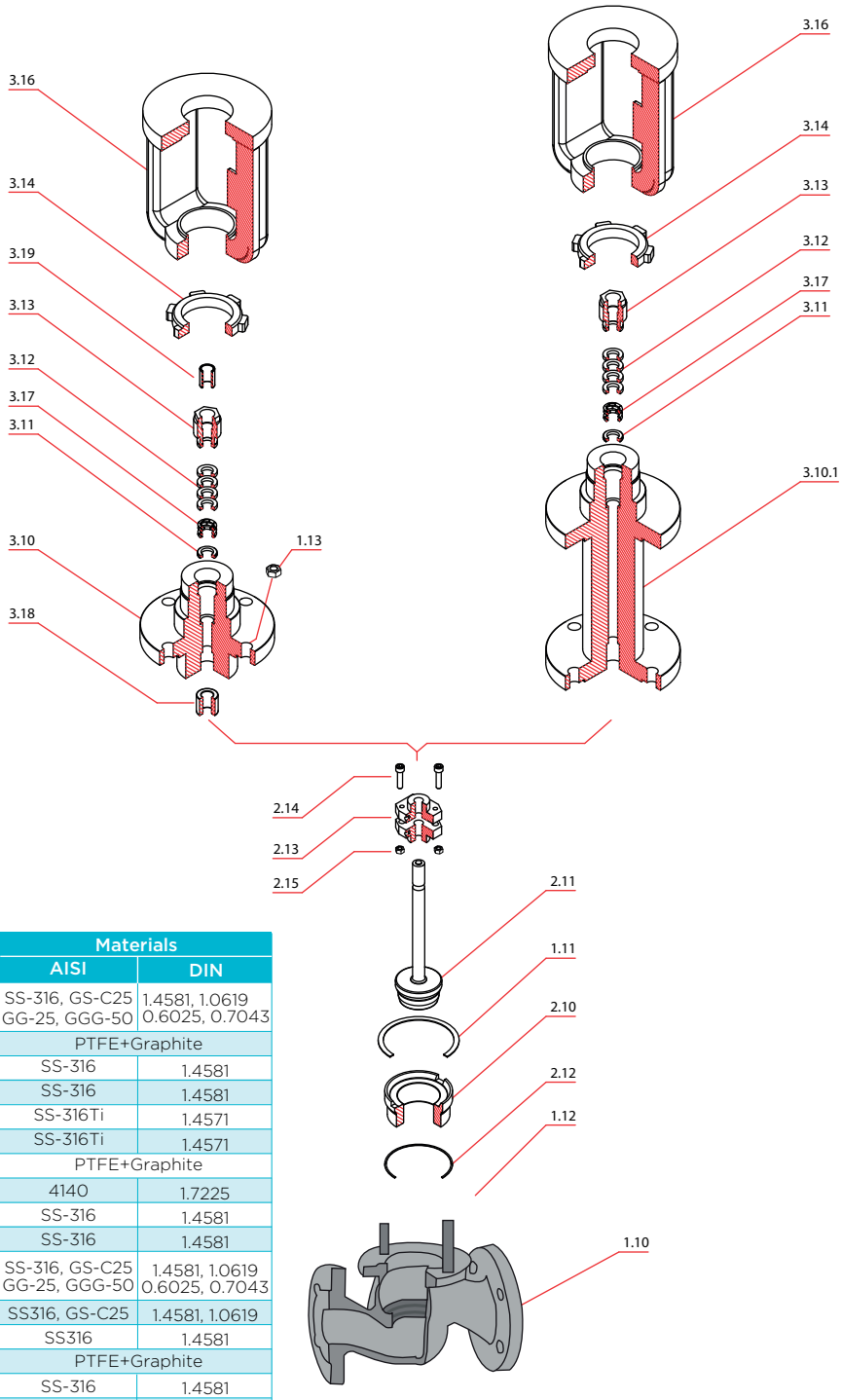






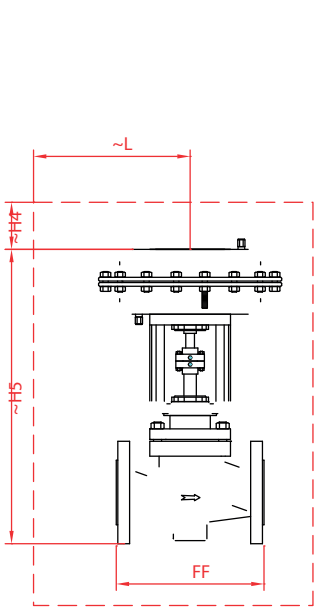
Part Description	Drawing No.	Part No.	Material	
			ANSI	DIN
Diaphragm Casing 1	4.10	LV 3000-09-410-300	1040	1.1186
Diaphragm Casing 2	4.11	LV 3000-09-411-300	1040	1.1186
Fitting	4.10.1	LV 3000-17-4101-300	Brass	
Vent Fitting	4.11.1	LV 3000-17-4111-300	Brass	
Bolt	4.12	LV 3000-02-412-M8.30	SS-316	1.4581
Entended Bold	4.12.1	LV 3000-02-4121-M8.45	SS-316	1.4581
Eye Bolt (DN65 and older)	4.12.2	LV 3000-02-4122-M8.45	1040	1.1186
Washer	4.13	LV 3000-02-413-M8	SS-316	1.4581
Nut	4.14	LV 3000-02-414-M8	SS-316	1.4581
Actuator Bonnet	4.15	LV 3000-09-415-080	1040	1.1186
Bearing	4.16	LV 3000-15-416-017	PTFE+Bronze	
O-Ring	4.17	LV 3000-12-417-020	NBR 70	
O-Ring	4.18	LV 3000-12-418-020	NBR 70	
O-Ring	4.19	LV 3000-12-419-065	NBR 70	
Shaft	4.20	LV 3000-02-420-020.020	SS-316	1.4581
Washer	4.21	LV 3000-10-421-080	4140	1.7225
Membrane	4.22	LV 3000-11-422-300	NBR 60	
Bowl	4.23	LV 30000-09-423-300	1040	1.1186
Spring Disc	4.24	LV 3000-09-424-300	1040	1.1186
Springs	4.25	LV 3000-03-425-30.12.24.2	SS-302	1.7102
Union	4.26	LV 3000-09-426-030	1040	1.1186
Washer	4.27	LV 3000-09-427-M16	1040	1.1186
Nut	4.28	LV 3000-09-428-M16.15	1040	1.1186

Valve Part List

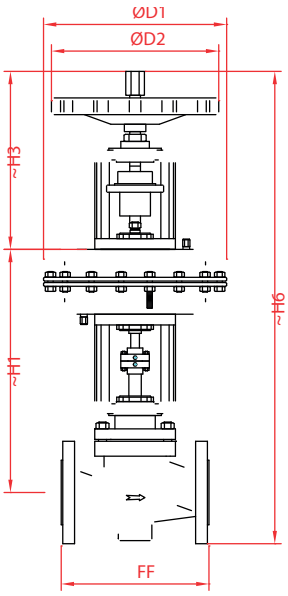


Part Description	Drawing No.	Part No.	Materials	
			AISI	DIN
Body	1.10	LV 3000-08-110-025	SS-316, GS-C25 GG-25, GGG-50	1.4581, 1.0619 0.6025, 0.7043
Bonnet washer	1.11	LV 3000-11-111-032	PTFE+Graphite	
Stud bolt	1.12	LV 3000-02-112-08.30	SS-316	1.4581
Nuts	1.13	LV 3000-02-113-08	SS-316	1.4581
Seat	2.10	LV 3000-01-210-040.042	SS-316Ti	1.4571
Plug	2.11	LV 3000-01-211-040.042.E	SS-316Ti	1.4571
Seat washer	2.12	LV 3000-11-212-067	PTFE+Graphite	
Connector	2.13	LV 3000-10-213-012	4140	1.7225
Stud bolt	2.14	LV 3000-02-214-M6	SS-316	1.4581
Standart Bonnet	2.15	LV 3000-02-215-M6	SS-316	1.4581
Nuts	3.10	LV 3000-02-310-133	SS-316, GS-C25 GG-25, GGG-50	1.4581, 1.0619 0.6025, 0.7043
Bellows seal bonnet	3.10.1	LV 3000-02-3101-133	SS316, GS-C25	1.4581, 1.0619
Washer	3.11	LV 3000-02-311-020	SS316	1.4581
Packing	3.12	LV 3000-11-312-020	PTFE+Graphite	
Bonnet packing retainer	3.13	LV 3000-02-313-020	SS-316	1.4581
Lock nut	3.14	LV 3000-08-314-051	GGG-50	0.7043
Spring	3.16	LV 3000-08-316-053	GGG-50	0.7043
Guide	3.17	LV 3000-14-317-30.14	SS-302	1.7102
Yoke	3.18	LV 3000-01-318-012	SS-316Ti	1.4571
Guide	3.19	LV 3000-11-319-012	PTFE+Graphite	

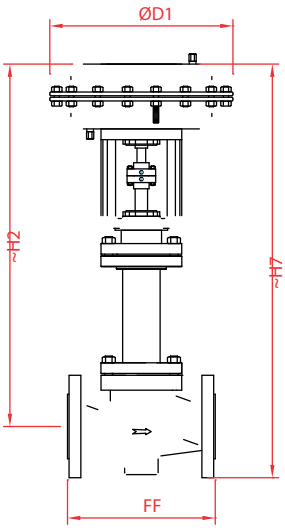
TORK LV 3000 SERIES



Minimum Mounting Clearance Area



Valve with Standard Bonnet
ant LV 3000 Actuator



Valve with Bellows seal Bonnet
and LV 3000 Actuator

Descriptions		Ø D1	Ø D2	Nominal Size DN									
				15	20	25	32	40	50	65	80	100	150
				Stroke = 20 mm						40mm			60mm
FF Face to Face Dimensions				130	150	160	180	200	230	290	310	350	480
- H1 for Standard bonnet (mm)	LV 3000 / 200	Ø255	Ø200	328	333	337	352	357	364				
	LV 3000 / 300	Ø295	Ø200	340	345	349	364	369	376				
	LV 3000 / 450	Ø350	Ø250							483	491	508	606
	LV 3000 / 700	Ø421	Ø350							541	549	566	664
- Weight in (kg) for Standard Bonnet, without accesories	LV 3000 / 200			14	14	16	19	21	25				
	LV 3000 / 300			18	18	20	24	25	29				
	LV 3000 / 450									58	66	80	124
	LV 3000 / 700									73	78	94	139
- H2 (mm) for Bellows seal Bonnet (mm)	LV 3000 / 200	Ø255	Ø200	513	518	522	537	542	549				
	LV 3000 / 300	Ø295	Ø200	525	530	534	549	554	561				
	LV 3000 / 450	Ø350	Ø250							668	676	693	791
	LV 3000 / 700	Ø421	Ø350							726	734	751	849
- Weight in (kg) for Bellows seal Bonnet, without accesories	LV 3000 / 200			17	18	19	24	25	30				
	LV 3000 / 300			21	22	23	28	30	34				
	LV 3000 / 450									67	75	87	128
	LV 3000 / 700									82	87	94	143
- H3for Hand Wheel (mm)	LV 3000 / 200	Ø255	Ø200	370	370	370	370	370	370				
	LV 3000 / 300	Ø295	Ø200	370	370	370	370	370	370				
	LV 3000 / 450	Ø350	Ø250							370	370	370	450
	LV 3000 / 700	Ø421	Ø350							370	370	370	450
- Weight in (kg)with Hand Wheel, without accessories	LV 3000 / 200			24	24	26	29	31	35				
	LV 3000 / 300			30	30	32	36	37	41				
	LV 3000 / 450									70	78	92	138
	LV 3000 / 700									85	90	106	154
- L (mm) for minimum mounting clearance area (mm) - H4 Removal space for actuator 175 mm	LV 3000 / 200	Ø255	Ø200	230	230	230	230	230	230				
	LV 3000 / 300	Ø295	Ø200	285	285	285	285	285	285				
	LV 3000 / 450	Ø350	Ø250							355	355	355	385
	LV 3000 / 700	Ø421	Ø350							400	400	400	480
- H5with Standard Bonnet overall dimension (mm)	LV 3000 / 200	Ø255	Ø200	375	385	395	422	432	447				
	LV 3000 / 300	Ø295	Ø200	387	397	407	434	444	459				
	LV 3000 / 450	Ø350	Ø250							576	591	626	756
	LV 3000 / 700	Ø421	Ø350							634	649	684	814
- H6with Hand Wheel overall dimension (mm)	LV 3000 / 200	Ø255	Ø200	745	755	765	792	802	817				
	LV 3000 / 300	Ø295	Ø200	757	767	777	804	814	829				
	LV 3000 / 450	Ø350	Ø250							946	961	996	1148
	LV 3000 / 700	Ø421	Ø350							1004	1019	1054	1206
- H7 with Bellows seal Bonnet overall dimension (mm)	LV 3000 / 200	Ø255	Ø200	560	570	580	607	617	632				
	LV 3000 / 300	Ø295	Ø200	572	582	592	619	629	644				
	LV 3000 / 450	Ø350	Ø250							761	776	811	941
	LV 3000 / 700	Ø421	Ø350							819	834	869	999
Flanges Drilled and Dimensioned acc. to				DIN 2501, Form C, D, R, N									

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valve & automation

07-07-2022

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