

Automation

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What's new!

TCR range compact quarter-turn electric actuators 20 Nm & 40 Nm



p. 178

2014/68/EU Directive N°1115 - Risk category II - Face to face DIN 3202-4 M8 - CB491K body - PA66 actuator - PTFE-stainless steel seat - Air supply connections 1/8" - Max. air supply: 8 bar - PS: 16 bar - TS: -10°C/+180°C.



ZEUS® - Bronze actuated angle seat valves

1420 - Normally closed Flow entry above the seat

1422 - Normally closed Flow entry below the seat

Ø	control head	Kv (m³/h)	face to face	For compressible fluids - Min. air supply 2,5 bar		For liquids - Min. air supply 4,2 bar	
				ΔP max. (bar)	code	ΔP max. (bar)	code
3/8"	40	4,5	65	16	1420203	16	1422203
3/8"	50	4,9	65	16	1420303	-	-
1/2"	40	5,3	65	16	1420204	16	1422204
1/2"	50	5,7	65	16	1420304	16	1422304
3/4"	50	10,5	75	16	1420305	10	1422305
3/4"	63	10,8	75	-	-	16	1422405
1"	63	20	90	16	1420406	11	1422406
1"	90	20	90	-	-	16	1422506
1 1/4"	90	29	110	16	1420507	14	1422507
1 1/2"	90	46	120	16	1420508	11	1422508
1 1/2"	110	46,5	120	16	1420608	16	1422608
2"	90	59	150	16	1420509	-	-
2"	110	67	150	16	1420609	10	1422609

1424 - Normally open Flow entry below the seat

Ø	control head	Kv (m³/h)	face to face	Min. air supply 2 bar	
				ΔP max. (bar)	code
3/8"	50	4,9	65	16	1424303
1/2"	50	5,7	65	16	1424304
3/4"	50	10,5	75	16	1424305
1"	63	20	90	16	1424406
1 1/4"	63	28,5	110	16	1424407
1 1/2"	90	46	120	16	1424508
2"	110	67	150	16	1424609

2014/68/EU Directive N°1115 - Risk category II - Face to face DIN 3202-4 M4 - CF8M body - PA66 actuator - PTFE-stainless steel seat - Air supply connections 1/8" - Max. air supply: 8 bar - PS: 25 bar - TS: -10°C/+180°C.



ARÈS® - Stainless steel actuated angle seat valves

1450 - Normally closed Flow entry above the seat

1454 - Normally closed Flow entry below the seat

Ø	control head	Kv (m³/h)	face to face	For compressible fluids - Min. air supply 2,5 bar		For liquids - Min. air supply 4,2 bar	
				ΔP max. (bar)	code	ΔP max. (bar)	code
1/2"	50	5,7	85	16	1450304	16	1454304
3/4"	50	10,5	95	16	1450305	10	1454305
3/4"	63	10,5	95	-	-	16	1454405
1"	63	20	105	16	1450406	11	1454406
1"	90	29	105	-	-	16	1454506
1 1/4"	90	29	120	16	1450507	14	1454507
1 1/2"	90	46	130	16	1450508	11	1454508
2"	90	67	150	16	1450509	-	-
2"	110	67	150	16	1450609	10	1454609

1452 - Normally open Flow entry below the seat

Ø	control head	Kv (m³/h)	face to face	Min. air supply 2 bar	
				ΔP max. (bar)	code
1/2"	50	5,7	85	16	1452304
3/4"	50	10,5	95	16	1452305
1"	63	20	105	16	1452406
1 1/4"	63	29	120	16	1452407
1 1/2"	90	46	130	16	1452508
2"	110	67	150	16	1452609

2 mechanical limit switch box for OMAL valves

control head	code
50	985008
63	985009
90	985010
110	985011

NAMUR pad adapter for ZEUS® & ARES® valves

code
985020N

Solenoid pilot MH, see page 174



2014/68/EU Directive N°1115 - Risk category II - Flanged RF PN16 - Face to face DIN 3202-4 M4 - CF8M body - PA66 actuator - PTFE-stainless steel seat - Air supply connections 1/8" - Max. air supply: 8 bar - PS: 16 bar - TS: -10°C/+180°C.



ARÈS® - Stainless steel actuated angle seat valve - Flanged RF PN16

1470 - Normally closed
Flow entry below the seat



DN	control head	Kv (m³/h)	face to face	For liquids - Min. air supply 2,5 bar	
				ΔP max. (bar)	code
15	50	5,3	130	16	1470304
20	50	9,2	150	10	1470305
25	63	20	160	11	1470406
32	63	29	180	14	1470507
40	90	46	200	11	1470508
50	110	59	230	10	1470609

BW & clamp versions on request



CF8M body & actuator - PTFE-stainless steel seat - PTFE-FKM gland pack - Orientable head - Air supply connection 1/8" - Max. air supply: 10 bar - Not for gas of group 1 - PS: 16 bar - TS: -10°C/+180°C.



HF - Full stainless steel actuated angle seat valve

1430 - Normally closed
Flow entry above the seat



Ø	Kv (m³/h)	face to face (mm)	For compressible fluids		
			max. ΔP (bar)	min. supply (bar)	code
1/2"	4,7	68	16	3	1430304
3/4"	9,5	75	16	4	1430305
1"	18,1	90	16	5,5	1430306
1"1/4	23,1	116	11	5	1430407A
1"1/2	32,9	116	11	6	1430408A
2"	52,8	138	11	6,5	1430509A

1434 - Normally closed
Flow entry below the seat

For liquids		
max. ΔP (bar)	min. supply (bar)	code
16	4,5	1434304
12	4,5	1434305
10	4,5	1434406
6	4,5	1434407A
10	4	1434508A
6	4	1434509A

Same features as above, except: EPDM gland pack - TS: -10°C/+100°C.

HF 32 - Full stainless steel actuated angle seat valve

1436 - Normally closed
Flow entry below the seat



Ø	Kv (m³/h)	face to face (mm)	For liquids		
			max. ΔP (bar)	min. supply (bar)	code
3/8"	4,7	74	6	5	1436303A
1/2"	4,7	74	6	5	1436304A
3/4"	5,4	84	4	5	1436305A

Solenoid pilot MH,
see page 174



97/23/EC Directive N°0036 - Risk category III - Flanged PN16 RF - On/off - Spring return, NC - GGG40 body - PTFE-graphite parabolic seat - Aluminium pneumatic actuator with anti-corrosion coating - Air supply from 6 to 10 bar - Air supply connection 1/4" NPT - PS: 16 bar - TS: -10°C/+200°C - Steam up to 12 bar, 192°C.



VL 10 - Ductile iron flanged on/off pneumatic actuated valve



DN	Kv (m³/h)	face to face (mm)	operating pressure		max. ΔP (bar)	code
			min.	max.		
15	3,8	130	6	10	12	1410015F
20	5,1	150	6	10	12	1410020F
25	9,4	160	6	10	12	1410025F
32	15,4	180	6	10	12	1410032F
40	22,2	200	6	10	12	1410040F
50	40,1	230	6	10	10	1410050F
65*	63,4	290	6	10	12	1410065F
80	89,7	310	6	10	8	1410080F
100	136,7	350	6	10	3	1410100F

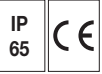
* 4 hole flanges.

Brass NPT/BSP adapter  

Ø	code
1/4"	21300202

■ Brass solenoid valves

2014/68/EU Directive - Risk category I - 2014/35/EU Directive - 2/2 way - CW617N brass body - Stainless steel inner parts - NBR membrane / EPDM KTW for ACS valves - Coil insulation class F - T30 connector (except ESM85) - Max. room temp.: +60°C (except VSO 84: +80°C) - PS: 10 bar - TS: +80°C (+90°C for ACS valves).



ESM 85 - Servo-assisted

Normally closed (opening under tension) - T22 connector - Min. ΔP: 0,3 bar.

Ø	bore (mm)	Kv (m³/h)	230V 50Hz	24V 50Hz
			code	code
3/8"	10	1,86	085001	085011
1/2"	12	2,2	085002	085012
3/4"	20	5,7	085003	085013
1"	25	9,6	085004	085014

ESM 86 - Servo-assisted

Normally closed (opening under tension) - Min. ΔP: 0,3 bar.

Ø	bore (mm)	Kv (m³/h)	230V 50Hz	24V 50Hz	48V 50Hz	12V DC	24V DC	ACS certified	
			code	code	code	code	code	230V 50Hz	24V 50Hz
3/8"	10	1,86	086001	086011	086031	086041	086051	-	-
1/2"	12	2,1	086002	086012	086032	086042	086052	086502	086512
3/4"	20	5,7	086003	086013	086033	086043	086053	086503	086513
1"	25	9,6	086004	086014	086034	086044	086054	086504	086514
1 1/4"	32	22	086005	086015	086035	086045	086055	-	-
1 1/2"	39	27	086006	086016	086036	086046	086056	-	-
2"	51	35	086007	086017	086037	086047	086057	-	-
2 1/2"	65	63	086008	086018	086038	086048	086058	-	-
3"	75	83	086009	086019	086039	086049	086059	-	-



ESM 87 - Servo-assisted

Normally open (closing under tension) - Min. ΔP: 0,3 bar.

Ø	bore (mm)	Kv (m³/h)	230V 50Hz	24V 50Hz	48V 50Hz	12V DC	24V DC	ACS certified	
			code	code	code	code	code	230V 50Hz	24V 50Hz
3/8"	10	1,86	087001	087011	087031	087041	087051	-	-
1/2"	12	2,1	087002	087012	087032	087042	087052	087502	087512
3/4"	20	5,7	087003	087013	087033	087043	087053	087503	087513
1"	25	9,6	087004	087014	087034	087044	087054	087504	087514
1 1/4"	32	22	087005	087015	087035	087045	087055	-	-
1 1/2"	39	27	087006	087016	087036	087046	087056	-	-
2"	51	35	087007	087017	087037	087047	087057	-	-
2 1/2"	65	63	087008	087018	087038	087048	087058	-	-
3"	75	83	087009	087019	087039	087049	087059	-	-



VSO 84 - Direct acting

Normally closed (opening under tension) - No ΔP required - Horizontal mounting, coil on the top.

Ø	bore (mm)	Kv (m³/h)	230V 50Hz	24V 50Hz	48V 50Hz	12V DC	24V DC	ACS certified	
			code	code	code	code	code	230V 50Hz	24V 50Hz
3/8"	10	2,2	084001	084011	084031	084041	084051	-	-
1/2"	12	2,2	084002	084012	084032	084042	084052	-	-
3/4"	20	5,5	084003	084013	084033	084043	084053	084503	084513
1"	25	7,5	084004	084014	084034	084044	084054	084504	084514
1 1/4"	32	17,5	084005	084015	084035	084045	084055	-	-
1 1/2"	39	19,0	084006	084016	084036	084046	084056	-	-
2"	51	32,4	084007	084017	084037	084047	084057	-	-



⚠ Please check max. ΔP on datasheet.

STEAM

2014/68/EU Directive - Risk category I - 2014/35/EU Directive - 2/2 way - Nickel-plated CW617N brass body - Stainless steel inner parts - PTFE plug - Coil insulation class F - B12 coil - T30 connector - Max. room temp.: +80°C - PS (AC): 10 bar, PS (DC): 5 bar - TS: +180°C.



ESV 90 - Servo-assisted

Normally closed (opening under tension) - Min. ΔP: 1 bar - Horizontal mounting, coil on the top above 1".

Ø	bore (mm)	Kv (m³/h)	230V 50Hz	24V 50Hz	48V 50Hz	24V DC
			code	code	code	code
1/2"	8	1,1	088002	088012	088032	088052
3/4"	21	6,3	088003	088013	088033	088053
1"	21	6,3	088004	088014	088034	088054
1 1/4"	38	20,4	088005	088015	088035	088055
1 1/2"	38	20,4	088006	088016	088036	088056
2"	50	34,8	088007	088017	088037	088057





2014/35/EU Directive - 2/2 way - CW617N brass body - Stainless steel inner parts - FKM membrane - B6 coil - Max. room temp.: +80°C - TS: -10°C/+150°C.

IP 65 CE

EV 66 – Mini solenoid valve 2/2

Normally closed (opening under tension) - No ΔP required.

Ø	bore (mm)	Kv (m³/h)	PS (bar)	230V AC	24V AC	PS (bar)	24V DC	12V DC
				code	code		code	code
1/8"	3	0,17	9	083694N	083695N	5	083696N	083697N
1/4"	4	0,25	6	083700N	083701N	4	083705N	083706N

2014/35/EU Directive - 3/2 way - CW617N brass body - Stainless steel inner parts - FKM membrane - 1/4" F/F - 1/8" decompression outlet - Bore 2 mm - PS (AC) : 10 bar, PS (DC) : 7 bar - Max. room temp.: +80°C - TS: +140°C.

IP 65 CE

EBB 62 - Normally closed



No ΔP required.

voltage	code
230V AC	041800N
24V AC	041801N
48V AC	041802N
110V AC	041803N
12V DC	041806N
24V DC	041807N
48V DC	041808N



EBB 61 - Normally open



No ΔP required.

voltage	code
230V AC	041850N
24V AC	041851N
48V AC	041853N
110V AC	041852N
12V DC	041856N
24V DC	041857N



COMPRESSED AIR

2014/35/EU Directive - 2/2 way - CW617N brass body - Stainless steel inner parts - FKM membrane - Coil insulation class H - B12 coil - T30 connector - PS: 20 bar - Max. room temp.: +60°C - TS: +150°C.

IP 65 CE

83-20 - Servo-assisted



Normally closed (opening under tension) - Min. ΔP: 0,1 bar.

Ø	bore (mm)	Kv (m³/h)	230V 50Hz	24V 50Hz	110V 50Hz	48V 50Hz	12V DC	24V DC
			code	code	code	code	code	code
1/4"	11	1,4	083000	083010	083020	083030	083040	083050
3/8"	11	1,5	083001	083011	083021	083031	083041	083051
1/2"	11	1,6	083002	083012	083022	083032	083042	083052



FUEL

2014/35/EU Directive - 2/2 way - CW617N brass body - Stainless steel inner parts - FKM membrane - Coil insulation class H - B12 coil - T30 connector - Max. room temp.: +80°C - TS: +150°C.

IP 65 CE

EST 93 - Direct acting



Normally closed (opening under tension) - No ΔP required.

Ø	bore (mm)	Kv (m³/h)	PS (bar) for AC coils	230V 50Hz	24V 50Hz	110V 50Hz	48V 50Hz	PS (bar) for DC coils	12V DC	24V DC
				code	code	code	code	code	code	
1/4"	3,5	0,27	15	088100	088110	088120	088130	7	088140	088150
3/8"	3,5	0,30	15	088101	088111	088121	088131	7	088141	088151
1/2"	5	0,48	5	088102	088112	088122	088132	3	088142	088152



ECM 93 - Direct acting with manual override



Normally closed (opening under tension) - No ΔP required.

Ø	bore (mm)	Kv (m³/h)	PS (bar)	230V 50Hz	24V 50Hz	PS (bar)	24V DC
				code	code		code
1/2"	5,7	0,48	5	088502	088512	3	088552



Plastic solenoid valve

2014/35/EU Directive - Food grade materials with NSF approval - Push fit fast connection for 8 mm hose - 2/2 way - PPA Thermoplastic body - Stainless steel inner parts - FKM membrane - Coil insulation class H - B4 coil - T22 connector - Max. room temp.: +65°C - TS: +5°C/+65°C.



IP 65 CE

EV 791 - Direct acting with push fit connection

Normally closed (opening under tension) - No ΔP required.

Ø	bore (mm)	Kv (m³/h)	PS (bar)	230V 50Hz	24V 50Hz	PS (bar)	24V DC
				code	code		code
6	2,5	0,12	8	079002N	079012N	6	079052N
8	2,5	0,12	8	079003N	079013N	6	079053N



■ Accessories & spare parts for Ceme solenoid valves



Electronic timer

Under tension timing control: 0,5-10 sec - Frequency control: 0,5-45 mn - Installation between coil & T30 connector - Not suitable for ESM 85 or NAMUR solenoid valves - Tensions: 24V to 230V AC/DC.

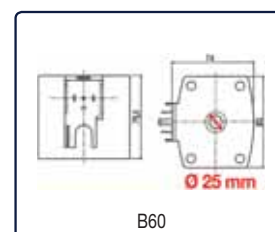
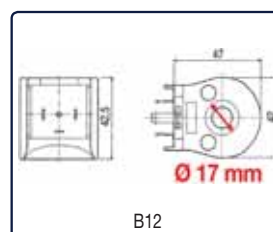
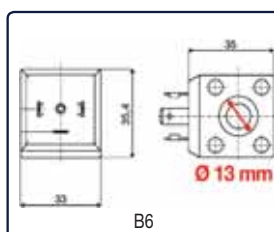
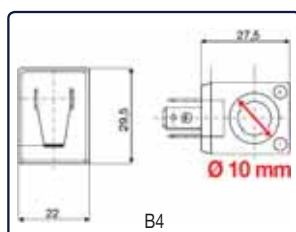
type	power (W)	solenoid valves	code
T U	12	ESM, EST, ESV - VSO up to 1"	980692
T 60	60	VSO 1"1/4 to 2"	980693

Spare coils & connectors for CEME solenoid valves

type	solenoid valve	230V 50Hz	24V 50Hz	48V 50Hz	110V 50Hz	12V DC	24V DC	230V 60Hz	24V 60Hz
B4	ESM 85 - EV 791	980300	980301	-	-	-	980302	-	-
B6	ESM 86 - EV 66 - EVB 82	980310	980311	980313	980314	980315	980316	980320	980321
B6S	ESM 87	980330	980331	980333	980334	980335	980336	-	-
B12	VSO 84 (3/8" to 1") ESV 90 - EST 93 - ECM 93 - 83-20	980410	980411	980413	980414	980415	980416	980420	980421
B60	VSO 84 (1"1/4 to 2")	980510	980511	980513	980514	980515	980516	-	-

Spare connectors

type	code
T 22	980232
T 30	980696
T 30	980696
T 30	980696
T 30	980696



KER - Reinforced tightness set

type	solenoid valves	code
B6	ESM 86, EV 66, EVB 82	980690
B12	VSO 84 3/8"-1" - EST 93 - ESV 90 - 83-20	980691

Spare membranes for ESM 86 & ESM 87

Ø	membrane (mm)	NBR / 80°C	EPDM / 110°C	ACS EPDM / 90°C	FKM / 150°C
		code	code	code	code
3/8" - 1/2"	34	980604	980614	980661	980624
3/4"	50	980632	980642	980662	980652
1"	60	980605	980615	980663	980625
1"1/4	80	980634	980644	-	980654
1"1/2	90	980606	980616	-	980626
2"	112	980607	980617	-	980627
2"1/2 - 3"	149	980608	-	-	-

Spare spring

code
980670
980671
980672
980673
980674
980675
980676

Spare membranes for VSO 84

Ø	membrane (mm)	NBR / 80°C	EPDM / 110°C	ACS EPDM / 90°C	FKM / 150°C
		code	code	code	code
3/8" - 1/2"	33	980600	980610	-	980620
3/4" - 1"	60	980601	980611	980660	980621
1"1/4 - 1"1/2	90	980602	980612	-	980622
2"1/2 - 3"	110	980603	980613	-	980623

Spare spring

code
980677
980678
980679
980679

Solenoid valves for fuel

2014/35/EU Directive - According to EN 264 - For fuel burners automatic shut off - Brass & stainless steel inner parts - NBR membrane - Normally closed (opening under tension) - Max. viscosity: 8°E - TS: -5°C/+60°C.



FUEL

MN 15

Brass body - PS: 4 bar.

Ø	bore (mm)	230V AC	24V AC
		code	code
3/8"	5,6	088190	088192
1/2"	5,6	088191	088193

Spare coils for MN 15 solenoid valves

Voltage	code
230V AC	980975
24V AC	980976

FUEL

MN 28

Aluminium body - PS: 8 bar.

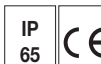
Ø	bore (mm)	230V AC	24V AC
		code	code
3/4"	24	088203	088213
1"	24	088204	088214
1"1/4	32	088205	088215
1"1/2	37	088206	088216
2"	42	088207	088217

Spare coils for MN 28 solenoid valves

Voltage	code
230V AC	980980
24V AC	980981

High pressure solenoid valves

2014/35/EU Directive - 2/2 way - Brass body - Brass and stainless steel inner parts - Normally closed (opening under tension) - Max. room temp. +60°C - Min. ΔP: 0,5 bar - TS: -10°C/+90°C.



PU 225-H

PS: 25 bar - NBR membrane.

Ø	bore (mm)	230V 50Hz	24V 50Hz
		code	code
1/2"	8	081502	081512
3/4"	13	081503	081513
1"	13	081504	081514

Spare coils & connector for PU

Voltage	code
230V AC	980550
24V AC	980551

PU 225-X

PS: 50 bar - PTFE plug.

Ø	bore (mm)	230V 50Hz	24V 50Hz
		code	code
1/2"	13	081602	081612
3/4"	25	081603	081613
1"	25	081604	081614

Spare coils & connector for PU-X

Voltage	code
230V AC	980540
24V AC	980541

Cast iron solenoid valve

2014/68/EU Directive - Risk category I - 2014/35/EU Directive - Flanged RF PN16 - GG25 body - Epoxy coated - Brass & bronze inner parts - NBR membrane - Manual safety override - Coil insulation class F - T30 connector - Max. room temp. +60°C - Min. ΔP: 0,3 bar - PS: 16 bar - TS: -10°C/+80°C - ⚠️ Only for liquids.



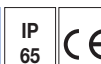
EV82 - High flow

DN	face to face (mm)	Kv (m³/h)	Normally closed		Normally open	
			230V AC	24V AC	230V AC	24V AC
			code	code	code	code
50	190	64	082007	082017	082007NO	082017NO
65*	210	89	082008	082018	082008NO	082018NO
80	225	119	082009	082019	082009NO	082019NO
100	255	222	082010	082020	082010NO	082020NO
125	285	333	082011	082021	082011NO	082021NO
150	315	470	082012	082022	082012NO	082022NO
200	420	854	082013	082023	082013NO	082023NO

* 4 hole flanges

Stainless steel solenoid valves

Excluded from 2014/68/UE Directive (article 4, §3) - 2014/35/EU Directive - F304 body - Stainless steel inner parts - NBR membrane - Max. room temp. +60°C - PS: 6 bar - TS: -15°C/+80°C.



AM 325 - Direct acting

Normally closed (opening under tension) - No ΔP required.

Ø	bore (mm)	230V AC	24V AC
		code	code
1/4"	2	041950	041951



Excluded from 2014/68/EU Directive (article 4, §3) - 2014/35/EU Directive - CF8M body - Stainless steel inner parts - FKM membrane - Coil insulation class F - T30 connector - PS: 8 bar - TS: -10°C/+90°C.



SPUY 220 - Direct acting

Normally closed (opening under tension) - No ΔP required.

Ø	230V AC		24V DC	
	bore (mm)	code	code	
1/2"	9,5	081202	081212	

2014/68/EU Directive - Risk category I / module A - 2014/35/EU Directive - CF8M body - Stainless steel inner parts - FKM membrane (EPDM membrane for SPU 225 & SPU 225-X on request) - Coil insulation class F - T30 connector - Horizontal mounting, coil on top - Normally closed (opening under tension) - TS: -10°C/+90°C.



SPU 220 - Direct acting

No ΔP required - Room temp.: -20°C/+60°C.

Ø	bore (mm)	Kv (m³/h)	PS (bar)	230V 50/60Hz	24V 50/60Hz	PS (bar)	24V DC
				code	code		code
1/2"	13	3,2	7	081002	081012	6	081052
3/4"	20	6,9	7	081003	081013	5	081053



SPU 220-X - Direct acting - ATEX

No ΔP required - Room temp.: -10°C/+50°C - II 2G/D Ex c II T4 for areas 1, 21, 2 & 22 - Supplied with 3 m overmoulded wire.

Ø	bore (mm)	Kv (m³/h)	PS (bar)	230V 50/60Hz	24V 50/60Hz	PS (bar)	24V DC
				code	code		code
1/2"	13	3,2	7	081102	081112	6	081152
3/4"	20	6,9	7	081103	081113	5	081153



SPU 225 - Servo-assisted

Min. ΔP : 0,5 bar - Room temp.: -20°C/+60°C.

Ø	bore (mm)	Kv (m³/h)	PS (bar)	230V 50/60Hz	24V 50/60Hz	24V DC
				code	code	code
3/8"	13	3,4	10	080001	080011	080051
1/2"	13	3,4	10	080002	080012	080052
3/4"	25	8,9	10	080003	080013	080053
1"	25	8,9	10	080004	080014	080054
1 1/4"	38	15,8	10	080005	080015	080055
1 1/2"	38	21,3	10	080006	080016	080056
2"	50	34,1	10	080007	080017	080057



SPU 225-X - Servo-assisted

Min. ΔP : 0,5 bar - Room temp.: -10°C/+50°C - II 2G/D Ex c II T4 for areas 1, 21, 2 & 22 - Supplied with 3 m overmoulded wire.

Ø	bore (mm)	Kv (m³/h)	PS (bar)	230V 50/60Hz	24V 50/60Hz	24V DC
				code	code	code
3/8"	13	3,4	10	080101	080111	080151
1/2"	13	3,4	10	080102	080112	080152
3/4"	25	8,9	10	080103	080113	080153
1"	25	8,9	10	080104	080114	080154
1 1/4"	38	15,8	10	080105	080115	080155
1 1/2"	38	21,3	10	080106	080116	080156
2"	50	34,1	10	080107	080117	080157



Spare coils for SPU and SPU-X solenoid valves

	230V 50Hz	24V 50Hz	48V 50Hz	110V 50Hz	12V DC	24V DC
type	code	code	code	code	code	code
SPU	980550	980551	980553	980554	980556	980552
SPU-X*	980540	980541	-	-	-	980542

* II 2G/D Ex m II T4.



Spare membranes for SPU 225 and SPU 225-X solenoid valves

Ø	FKM		EPDM	
	code		code	
3/8"	980570		980585	
1/2"	980570		980585	
3/4"	980571		980586	
1"	980571		980586	
1 1/4"	980572		980587	
1 1/2"	980573		980588	
2"	980574		980589	

Spare connector

type	code
T 30	980696



Spare membranes for SPU 220 and SPU 220-X

Ø	code
1/2"	980580
3/4"	980581

Filter cleaning solenoid valves



For dust collector application, especially reverse pulse jet filter cleaning - Fast opening - High flow - Cast aluminium body - Stainless steel inner parts - NBR membrane - Room temperature: -20°C/+60°C - PS: 7,5 bar - TS: -20°C/+120°C.

IP 65



VNP - Servo-assisted

Normally closed (opening under tension) - Min. ΔP: 0,5 bar.

Ø	type	Kv (m³/h)	230V 50/60Hz	24V 50/60Hz
			code	code
3/4"	VNP 206	10	089303	089313
1"	VNP 208	21	089304	089314
1 1/2"	VNP 212	37	089305	089315
1 1/2"	VNP 214	44	089306	-

Spare membranes for VNP



Ø	code
3/4"	980190
1"	980191
1 1/2"	980192



VEM - Operated by solenoid valve

Normally closed (opening under tension) - Min. ΔP: 0,5 bar.

Ø	type	Kv (m³/h)	code
3/4"	VEM 206	10	0894206
1"	VEM 208	21	0894208
1 1/2"	VEM 212	37	0894212
1 1/2"	VEM 214	44	0894214
2"	VEM 216	78	0894216
2 1/2"	VEM 220	86	0894220

not on stock, on request.

Spare coils & connector for VNP



230V 50/60Hz	24V 50/60Hz	24V DC
code	code	code
980564	980565	980566

Electric actuated valves

Compact electric actuated ball valves

Ball valves equipped with compact actuator - 90° operating angle - Plastic enclosure - Steel reducing gears - Position indicator - 2 thread wiring - 1,5 m wire - Full bore - Room temp.: -15°C/+50°C - PS: 10 bar - TS: 0°C/+90°C.



Lyva 2 NC - Brass ball valve - Normally closed

CW617N body & ball - PTFE seats - Stem tightness: EPDM.



Ø	power	code
1/2"	24V AC/DC	89221C0232
3/4"	24V AC/DC	89221C0233
1"	24V AC/DC	89221C0234

Ø	power	code
1/2"	230V AC	89221C0252
3/4"	230V AC	89221C0253
1"	230V AC	89221C0254

Lyva 2 NO - Brass ball valve - Normally open

CW617N body & ball - PTFE seats - Stem tightness: EPDM.



Ø	power	code
1/2"	24V AC/DC	89222C0232
3/4"	24V AC/DC	89222C0233
1"	24V AC/DC	89222C0234

Ø	power	code
1/2"	230V AC	89222C0252
3/4"	230V AC	89222C0253
1"	230V AC	89222C0254

Lyva 3 NC - Stainless steel ball valve - Normally closed

CF8M body & ball - PTFE seats - Stem tightness: EPDM.



Ø	power	code
1/2"	24V AC/DC	89321C0232
3/4"	24V AC/DC	89321C0233
1"	24V AC/DC	89321C0234

Ø	power	code
1/2"	230V AC	89321C0252
3/4"	230V AC	89321C0253
1"	230V AC	89321C0254

Lyva 3 NC - Stainless steel ball valve - Normally closed with manual override

CF8M body & ball - PTFE seats - Stem tightness: EPDM.



Ø	power	code
1/2"	24V AC/DC	89321C0262
3/4"	24V AC/DC	89321C0263
1"	24V AC/DC	89321C0264

Lyva 3 NO - Stainless steel ball valve - Normally open

CF8M body & ball - PTFE seats - Stem tightness: EPDM.



Ø	power	code
1/2"	24V AC/DC	89322C0232
3/4"	24V AC/DC	89322C0233
1"	24V AC/DC	89322C0234

Ø	power	code
1/2"	230V AC	89322C0252
3/4"	230V AC	89322C0253
1"	230V AC	89322C0254

Aluminium actuators

Valve mounting acc. to ISO 5211 - II 2G h for areas 1 & 2 - Solenoid pilot valve connection acc. to NAMUR VDI/VDE 3845 - Rack and pinion actuator - 90° operating angle (adjustable limit screws $\pm 5^\circ$) - Aluminium body & caps - Aluminium piston - Position indicator - Environment working temp.: -20°C/+80°C - Max. air supply: 8 bar - Air supply connection 1/4".



NKD - Double acting

type	avail. torque (Nm) at air supply 6 bar	ISO		VDI/VDE	code
NKD052	24	F03/F05	11	NAMUR 1	010002
NKD063	44	F05/F07	14	NAMUR 1	010003
NKD083	94	F05/F07	17	NAMUR 1	010005

NKS - Spring return

type	avail. torque (Nm) at air supply 6 bar		ISO		VDI/VDE	code
	air opening	spring closing				
NKS052	14	10	F03/F05	11	NAMUR 1	010102
NKS063	27	16	F05/F07	14	NAMUR 1	010103
NKS083	56	38	F05/F07	17	NAMUR 1	010105
NKS092	79	56	F05/F07	17	NAMUR 1	010106
NKS105	122	76	F07/F10	22	NAMUR 1	010107SE

Design acc. to EN 15714-3 - II 2G/D c for areas 1, 2, 21 & 22 - SIL 2 (& SIL 3 capable) - Valve mounting acc. to ISO 5211 - Limit switch box bracket connection & solenoid pilot valve connection acc. to NAMUR VDI/VDE 3845 - Rack and pinion actuator - 90° operating angle (adjustable limit screws $\pm 5^\circ$) - Anodized aluminum body - Epoxy coated aluminium caps - Position indicator - Environment working temp.: -30°C/+100°C - Max. air supply: 8 bar - Air supply connection 1/4".



ADA - Double acting

type	avail. torque (Nm) at air supply 6 bar	ISO pad		VDI/VDE	code	Standard gaskets set code
ADA20	19	F05	14	NAMUR 2	015100B	041150B
ADA40	41	F05	14	NAMUR 2	015101B	041151B
ADA80	77	F05/F07	17	NAMUR 2	015102B	041152B
ADA130	118	F05/F07	17	NAMUR 2	015103B	041153B
ADA200	175	F07/F10	17	NAMUR 2	015104B	041154B
ADA300	291	F07/F10	22	NAMUR 2	015105B	041155B
ADA500	433	F10	22	NAMUR 2	015106B	041156B
ADA850	718	F10/F12	27	NAMUR 2	015107B	041157B
ADA1200	1038	F10/F14	36	NAMUR 2	015108B	041158B
ADA1750	1413	F14	36	NAMUR 2	015109B	041159B

not on stock, on request.



ASR - Spring return

type	avail. torque (Nm) at air supply 6 bar	ISO pad		VDI/VDE	code	Standard gaskets set code
	air opening	spring closing				
ASR20	14	7	F05	14	NAMUR 2	016100B
ASR40	26	17	F05	14	NAMUR 2	016101B
ASR80	51	30	F05/F07	17	NAMUR 2	016102B
ASR130	80	45	F05/F07	17	NAMUR 2	016103B
ASR200	113	73	F07/F10	17	NAMUR 2	016104B
ASR300	190	119	F07/F10	22	NAMUR 2	016105B
ASR500	283	177	F10	22	NAMUR 2	016106B
ASR850	488	371	F10/F12	27	NAMUR 2	016107B
ASR1200	698	400	F10/F14	36	NAMUR 2	016108B
ASR1750	877	630	F14	36	NAMUR 2	016109B

not on stock, on request.



Design acc. to EN 15714-3 - C € II 2G/D c for areas 1, 2, 21 & 22 - SIL 2 (& SIL 3 capable) - Valve mounting acc. to ISO 5211 - Limit switch box bracket connection & solenoid pilot valve connection acc. to NAMUR VDI/VDE 3845 - Rack and pinion actuator - 90° operating angle (adjustable limit screws ±5°) - Anodized aluminum body - Epoxy coated aluminium caps - Position indicator - Environment working temp.: -20°C/+80°C - Max. air supply: 8 bar - Air supply connection 1/4".



RE - Double acting

type	avail. torque (Nm) at air supply 6 bar	ISO		VDI/VDE	code	Standard gaskets set code
RE43	13	F03/F05	11	NAMUR 1	017004RE	041243
RE51	20,1	F03/F05	11	NAMUR 1	017006RE	041244
RE64	35,5	F05	14	NAMUR 1	017007RE	041245
RE76	70,6	F05/F07	17	NAMUR 1	017008RE	041246
RE86	103,4	F05/F07	17	NAMUR 1	017009RE	041247
RE101	164,8	F07/F10	17	NAMUR 1	017010RE	041248
RE116	262,3	F07/F10	22	NAMUR 3	017011RE	041249
RE126	339,8	F07/F10	22	NAMUR 3	017012RE	041250
RE146	530,1	F10/F12	27	NAMUR 3	017013RE	041251
RE161	689,2	F12	27	NAMUR 4	017014RE	041252
RE181	939,4	F14	36	NAMUR 4	017015RE	041253
RE201	1292,0	F14	36	NAMUR 4	017016RE	041254
RE241	2235,0	F14	36	NAMUR 4	017018RE	041255
RE271	3235,0	F16	36	NAMUR 4	017017RE	041256

not on stock, on request.

RES - Spring return

type	avail. torque (Nm) at air supply 6 bar air opening	spring closing	ISO		VDI/VDE	code	Standard gaskets set code
RES43	8,1	5	F03/F05	11	NAMUR 1	017104RE	041243
RES51	11,6	8,5	F03/F05	11	NAMUR 1	017106RE	041244
RES64	21,4	14,1	F05	14	NAMUR 1	017107RE	041245
RES76	42,1	28,5	F05/F07	17	NAMUR 1	017108RE	041246
RES86	67,7	35,7	F05/F07	17	NAMUR 1	017109RE	041247
RES101	100,2	64,6	F07/F10	17	NAMUR 1	017110RE	041248
RES116	161,4	100,9	F07/F10	22	NAMUR 3	017111RE	041249
RES126	210	129,8	F07/F10	22	NAMUR 3	017112RE	041250
RES146	324,9	205,2	F10/F12	27	NAMUR 3	017113RE	041251
RES161	405,3	283,8	F12	27	NAMUR 4	017114RE	041252
RES181	561,1	376,3	F14	36	NAMUR 4	017115RE	041253
RES201	772,3	519,6	F14	36	NAMUR 4	017116RE	041254

Same features as RE / RES pneumatic actuator except:

- RE PTFE / RES PTFE: PTFE coated aluminium caps and stainless steel shaft - C5M protection acc. to ISO 12944.
- APINOX: full stainless steel body - 90° operating angle, no adjustable limit screws.



RE PTFE - Double acting

type	avail. torque (Nm) at air supply 6 bar	ISO		VDI/VDE	code
RE43 PTFE	13	F03/F05	11	NAMUR 1	017034
RE51 PTFE	20,1	F03/F05	11	NAMUR 1	017036
RE64 PTFE	35,5	F05	14	NAMUR 1	017037
RE76 PTFE	70,6	F05/F07	17	NAMUR 1	017038

RES PTFE - Spring return

type	avail. torque (Nm) at air supply 6 bar air opening	spring closing	ISO		VDI/VDE	code
RESR51 PTFE	11,6	8,5	F03/F05	11	NAMUR 1	017136
RESR64 PTFE	21,4	14,1	F05	14	NAMUR 1	017137
RESR76 PTFE	42,1	28,5	F05/F07	17	NAMUR 1	017138
RESR86 PTFE	67,7	35,7	F05/F07	17	NAMUR 1	017139

APINOX - Full stainless steel

double acting	ISO		code	spring return	ISO		code
AP42	F03/F05	11	017204	APS42	F03/F05	11	017304
AP50	F03/F05	11	017206	APS50	F03/F05	11	017306
AP63	F05	14	017207	APS63	F05	14	017307
AP75	F05/F07	17	017208	APS75	F05/F07	17	017308
AP85	F05/F07	17	017209	APS85	F05/F07	17	017309
AP100	F07/F10	22	017210	APS100	F07/F10	22	017310
AP115	F07/F10	22	017211				
AP125	F07/F10	22	017212				

not on stock, on request.

Other type on request





**Additional
delivery time
3-5 days**

CE II 2G/D - SIL 2 (& SIL 3 capable) - Valve mounting acc. to ISO 5211 - Limit switch box bracket connection & solenoid pilot valve connection acc. to NAMUR VDI/VDE 3845 - Rack & pinion actuator - 90° operating angle (adjustable limit screws -5°/+10° & +80°/+95° for types 0025 to 0600, and from -3°/+10° & +80°/+93° for types 0950 to 4000) - Chrome-plated & polyurethane coated aluminium body & caps - Position indicator - Environment working temp. -20°C/+80°C - Max. air supply: 8 bar - Air supply connection: 1/4".



PD - Double acting

type	avail. torque (Nm) at air supply 6 bar	ISO pad	□	VDI/VDE	code
PD0012	15	F04	9	31x41	PD0012
PD0025	27	F05/F03	11	30x80	PD0025
PD0040	51	F05/F07	14	30x80	PD0040
PD0065	77	F05/F07	14	30x80	PD0065
PD0100	115	F07/F05	17	30x80	PD0100
PD0150	183	F07/F10	17	30x80	PD0150
PD0200	251	F10/F07	22	30x80	PD0200
PD0350	436	F10/F07	22	30x80	PD0350
PD0600	741	F12/F10	27	30x130	PD0600
PD0950	1107	F14/F10	36	30x130	PD0950
PD1600	1829	F16	46	30x130	PD1600
PD2500	2922	F16	46	30x130	PD2500
PD4000	4954	F25	55	30x130	PD4000



PE - Spring return

type	avail. torque (Nm) at air supply 6 bar		ISO pad	□	VDI/VDE	springs/ combination	code
	air opening	air closing					
PE0012	10	7	F04	9	31x41	2/N20	PE0012
PE0025	16	8	F05/F03	11	30x80	10/N50	PE0025
PE0040	30	16	F05/F07	14	30x80	10/N50	PE0040
PE0065	45	23	F05/F07	14	30x80	10/N50	PE0065
PE0100	68	36	F07/F05	17	30x80	10/N50	PE0100
PE0150	109	59	F07/F10	17	30x80	10/N50	PE0150
PE0200	148	78	F10/F07	22	30x80	10/N50	PE0200
PE0350	260	141	F10/F07	22	30x80	10/N50	PE0350
PE0600	439	235	F12/F10	27	30x130	10/N50	PE0600
PE0950	683	410	F14/F10	36	30x130	5/N50	PE0950
PE1600	1149	658	F16	46	30x130	5/N50	PE1600
PE2500	1900	1187	F16	46	30x130	5/N50	PE2500
PE4000	3047	1961	F25	55	30x130	5/N50	PE4000

⚠ Please consult for other spring combinations.

Plastic actuators

CE II 2 GD c T6 - SIL 2 (& SIL 3 capable) - Valve mounting acc. to ISO 5211 - Limit switch box bracket connection acc. to NAMUR 1 - Solenoid pilot connection acc. to NAMUR VDI/VDE 3845 - Rack and pinion actuator - 90° operating angle - Reinforced fiberglass polyamide body - Position indicator - TS: -32°C/+90°C - Max. air supply: 8 bar - Air supply connection 1/4".

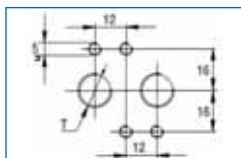


PP - Double acting

type	avail. torque (Nm) at air supply 6 bar	ISO	⊗	VDI/VDE	code	Standard gaskets set code
PPW	17	F04	11	NAMUR 1	012100	041110
PP00	25	F05	14	NAMUR 1	012103	041111
PP10	71	F05/F07	17	NAMUR 1	012106	041112
PP20	165	F07	22	NAMUR 1	012109	041113

PPS - Spring return

type	avail. torque (Nm) at air supply 6 bar		ISO	⊗	VDI/VDE	code	Standard gaskets set code
	air opening	spring closing					
PPWS	10,6	6,5	F04	11	NAMUR 1	012120	041110
PP00S	13,7	11,3	F05	14	NAMUR 1	012123	041111
PP10S	40,2	30,8	F05/F07	17	NAMUR 1	012126	041112
PP20S	101,3	64,2	F07	22	NAMUR 1	012129	041113



Namur solenoid pilot valves

Namur interface - Anodized aluminium body - NBR sealing - 3/2-5/2 ways / solenoid operated / Spring return (except ref. 4220: 5/2 ways - dual solenoids operated) - Operating pressure: 2 bar to 10 bar (except CY: 1,5 bar to 8 bar) - SIL 2 (& SIL 3 capable) - IP65 coil.



CY - Monostable SHAKO 3/2-5/2

Flowrate: 500 l/min - Operating pressure: 1,5 to 8 bar - 1/4" inlet & outlet ports - Manual override - TS: -10°C/+50°C.

voltage	code
230V AC	042190
24V DC	042191

Spare coil + connector

For CY solenoid pilot valves

voltage	code
230V AC	980260
24V AC	980263
24V DC	980261



551 - Monostable ASCO 551 3/2-5/2

1/4" inlet & 1/8" outlet ports - TS: -25°C/+60°C.

voltage	code
230V AC	041640
24V AC	041641
110V AC	041642
24V DC	041644

Spare coil + connector

For 551 solenoid pilot valves

voltage	code
230V AC	980200
24V AC	980201
24V DC	980205
12V DC	980204

Parker 4212 - Monostable LUCIFER 341N05 3/2-5/2

1/4" inlet & outlet ports - TS: -10°C/+50°C.

voltage	code
230V AC	042120
24V AC	042121
48V AC	042122
110V AC	042123
12V DC	042124
24V DC	042125

Parker 4221 - Bistable LUCIFER 347N03 5/2

1/4" inlet & 1/8" outlet ports - TS: -20°C/+50°C.

voltage	code
230V AC	042210
24V AC	042211
48V AC	042212
110V AC	042213
24V DC	042215

Namur interface - ATEX protection - SIL 2 (& SIL 3 capable) - Anodized aluminium body - NBR sealing - 3/2-5/2 ways / solenoid operated / Spring return - Operating pressure: 2 bar to 10 bar - 1/4" inlet port & 1/8" outlet port. TS ASCO: -25°C/+60°C ; TS LUCIFER: -20°C/+50°C (except 4240: -25°C/+80°C).



4280 - Monostable ASCO 551-LPKF

CE ⚡ II 2 G Ex d IIB+H2 / CE ⚡ II 2 D Ex tb IIIC Db IP67 for areas 1-21 & 2-22.

voltage	code
230V AC	042800
24V AC	042801
24V DC	042805

4282 - Monostable ASCO 551-PV

CE ⚡ II 2 G Ex mb IIC T4 Gb / CE ⚡ II 2 D Ex mb IIIC T100°C Db IP67 - For areas 1-21 & 2-22 - With 2 m overmoulded wire.

voltage	code
230V AC	042820
24V AC	042821
24V DC	042825



4283 - Monostable ASCO 551-LISC

CE ⚡ II 1 G Ex ia IIC T6 Ga / CE ⚡ II 2 D Ex ib IIIC T85°C Db IP67 for area 0-20, 1-21 & 2-22.

voltage	code
24V DC	042835

4281 - Monostable ASCO 551-WBLP

CE ⚡ II 2 G Ex e mb IIC / CE ⚡ II 2 D Ex tb IIIC IP67 for areas 2-22.

voltage	code
230V AC	042810
24V AC	042811
24V DC	042815

Parker 4231 - Monostable LUCIFER 341N35

CE ⚡ II 2 GD Ex me II T4 IP66/IP67 for areas 1-21 & 2-22.

voltage	code
230V AC	042310
24V AC	042311
24V DC	042312

Parker 4251 - Monostable LUCIFER 341N35

CE ⚡ II 2 GD Ex md IIC T4 IP66/IP67 for areas 1-21 & 2-22.

voltage	code
230V AC	042510
48V AC	042513



Parker 4240 - Monostable LUCIFER 341N3190

CE ⚡ II 1 GD Ex ia IIC T6 IP67 for areas 0-20.

voltage	code
24V DC	042403

Parker 4271 - Monostable LUCIFER 341N05

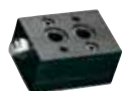
CE ⚡ II 3 GD Ex nAC IIC T5 IP65 for areas 2-22.

voltage	code
230V AC	042710
24V AC	042711
110V AC	042713
24V DC	042712

Accessories for Namur solenoid pilot valves

NAMUR quick exhaust

For spring return actuator



type	code
NX1	041503B

NAMUR flow regulator



type	actuator	code
NF2	double acting	041506
NF3	spring return	041507

NAMUR adapter



type	code
2x 1/4" NPT	041508
ISO T1	041200

Brass silencer



Ø	code
1/8"	041192
1/4"	041193
3/8"	041198
1/2"	041300
3/4"	041194

Brass quick exhaust

PS: 12 bar - TS: +80°C.



Ø	code
1/4"	21661022
1/2"	21661024

Brass throttle valve



Ø	code
1/8"	041196
1/4"	041195

Stainless steel silencer



Ø	code
1/8"	041191
1/4"	041197
3/8"	041189
1/2"	041190
3/4"	041188

Stainless steel quick exhaust

PS: 2-10 bar - TS: -20°C/+80°C.



Ø	code
1/4"	041510
3/8"	041511
1/2"	041512
3/4"	041513

Brass NPT/BSP adapter



Ø	code
1/4"	21300202

Solenoid pilot valves 3/2

EBB 62 - Normally closed



EBB 61 - Normally open

CW617N brass body - 1/4" F/F - 1/8" decompression outlet - Bore 2 mm - PS (AC): 10 bar, PS (DC): 7 bar - TS: 140°C.



voltage	NC code	NO code
230V AC	041800N	041850N
24V AC	041801N	041851N
48V AC	041802N	041853N
110V AC	041803N	041852N
12V DC	041806N	041856N
24V DC	041807N	041857N
48V DC	041808N	-

MH - 3/2 function

Anodised aluminium body - 1/8" M/F - Bore 1,2 mm - Manual setting & adjustable fitting - PS: 10 bar - TS: -10°C/+50°C.



voltage	code
230V AC	041901B
24V AC	041902B
24V DC	041903B
coil 230V AC	980222B
coil 24V AC	980223B
coil 24V DC	980224B
fitting M1/4"-F1/8"	21040201

Positioners

R 99 - Positioner for 1/4 turn valves

Aluminium body - Polycarbonate enclosure - IP 54 (IP 65 on request) - Max. air supply: 10 bar - Air supply connection 1/4" NPT - Pneumatic signal 3-15 psi or electric signal 4-20 mA (0-10V on request) - PG9 connection - Position indicator - Includes pressure gauges box & Universal bracket Namur 1, 2 & 3.



type		amb. temp.	code
R99P	Pneumatic DA / SR	-20°C/+70°C	3260210M
R99E	Electropneumatic DA / SR 4-20 mA	-20°C/+70°C	3260220M

⚠ Mounting & tubing not included, see below.

PTL7 - Limit switch box

Aluminium body - IP65 - Mounting on NAMUR actuator & R 99 positionner - Position indicator - PG9 connection - Universal bracket NAMUR 1, 2 & 3 included.



type		amb. temp.	code
PTL7 T	Position transmitter 4-20 mA	-20°C/+70°C	3260240
PTL7 E	2 electric switches	-20°C/+70°C	3260244

YT 3300 - Smart positioner for 1/4 turn valves

Aluminium body and enclosure - IP66 - Air supply between 1,4bar & 7 bar. Air supply connection 1/4" NPT - Electric signal 4-20 mA - PID control - Position indicator - Local control unit - LCD screen - Self-calibration function - Includes pressure gauges box & Universal bracket Namur 1, 2 & 3.



type		amb. temp.	code
YT 3300R	Electropneumatic 4-20mA	-30°C/+85°C	3267001

⚠ Mounting & tubing not included, see below.

Mounting & tubing for R99 & YT 3300 positioners

Rilsan tubing, brass fittings.

Actreg actuators	Alphair actuators	code
-	RE51	AP42-AP50
All	RE64-RE201	AP63-AP200
-	-	AP240-AP330
		999TUBPOS11
		999TUBPOS12
		999TUBPOS13

Limit switch boxes

■ Plastic limit switch boxes



SP - Universal limit switch box IP65

Black noryl compact box - Anti-UV polycarbonate cover with flat indicator - Includes universal adjustable bracket for NAMUR 1, 2 & 3 - Includes gland pack M20 x 1,5.

IP
65

type	switches	amb. temp.	code
SP 012	2 SPDT silver plated mechanical switches 250V AC - 5A	-15°C/+80°C	0460012N
SP 732	2 inductive detectors 3 threads PNP 10-30V DC P+F NBB2 V3 E2	-15°C/+80°C	0460014N

■ Aluminium limit switch boxes



APL 210 - Limit switch box IP67 for Actreg & NK actuators

Epoxy coated aluminium housing - 3D position indicator - Without gland pack & cap - Includes stainless steel bracket.

IP
67

type	switches	code
APL 210	2 SPDT mechanical switches 250V AC - 3A - For ADA/ASR actuators	0460000N
APL 210	2 SPDT mechanical switches 250V AC - 3A - For NKD/NKS actuators	0460001N



SM - Universal limit switch box IP65

Aluminium compact box - Anti-UV polycarbonate cover with 3D position indicator - Includes universal adjustable bracket for NAMUR 1, 2 & 3 - Includes gland pack M20 x 1,5.

SIL 3
on request
IP
65

type	switches	amb. temp.	code
SM 012	2 SPDT silver plated mechanical switches 250V AC - 5A	-15°C/+80°C	0460512N
SM 732	2 inductive detectors 3 threads PNP 10-30V DC P+F NBB2 V3 E2	-15°C/+80°C	0460514N

SF - Limit switch box IP67

Polyester coated aluminium box & cover - Stainless steel stem - Adjustable 3D position indicator - 2 wire inlets M20 x 1,5 - F05 ISO pad - Stem VDI/VDE 3845 - **Without gland pack, cap & bracket.**

SIL 3
on request
IP
67

type	switches	amb. temp.	code
SF 01200	2 SPDT silver plated mechanical switches 250V AC - 5A	-20°C/+80°C	0462012
SF 73200	2 inductive detectors 3 threads PNP 10-30V DC P+F NBB2 V3 E2	-20°C/+70°C	0462732
SF 75200	2 inductive detectors 2 threads NO/NC 5-36V DC IFM IS 5026	-20°C/+80°C	0462752
SF 83200	2 inductive detectors 2 threads NO 5-60V DC P+F NBB3 V3 Z4	-20°C/+80°C	0462832
	Indicator for 3 way L valves		980186
	Indicator for 3 way T valves		980187



500 - Stainless steel mounting set for SF limit switch boxes

Includes bracket VDI/VDE 3845, gland pack & cap M20.

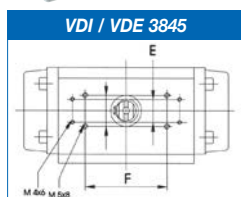
Spare gland pack & cap

Polyamide - TS: -30°C/+100°C.

type	length F (mm)	width E (mm)	height (mm)	stem height (mm)	code
Kit NAMUR 0	50	25	46	20	050210
Kit NAMUR 1	80	30	45	20	050072
Kit NAMUR 2	80	30	55	30	050061
Kit NAMUR 3	130	30	55	30	050073
Kit NAMUR 4	130	30	75	50	050081



For wires Ø 3,5-8 mm	code
Gland pack M20 x 1,5	980181
Cap M20 x 1,5	980182



■ ATEX limit switch boxes

SF-3GD - Limit switch box IP65 ATEX Ex "n"

Polyester coated polyester aluminium box & cover - Stainless steel stem - Adjustable 3D position indicator - 2 wire inlets M20 x 1,5 - F05 ISO pad - Stem VDI/VDE 3845 - **Without gland pack, cap & bracket.**

SF3D: C ⚡ II 3D Ex td A22 IP65 T85°C - SF3G: C ⚡ II 3G Ex nA IIC T6 & C ⚡ II 3D Ex td A22 IP65 T80°C.

SIL 3
on request
IP
65
Zones
2, 22

type	switches	zones	Amb. temp.	code
SF3D 01200	2 SPDT silver plated mechanical switches 250V AC - 5A	22	-20°C/+60°C	0476012
SF3G 6H200	2 inductive detectors 3 threads PNP 10-30V DC P+F NBB2 V3 E2	2 & 22	-20°C/+41°C	0476010



SIB - Limit switch box IP67 ATEX Ex "ia"

ATEX certification for complete box & switches - Aluminium box - Anti-UV polycarbonate cover - Adjustable 3D position indicator - **Without gland pack, cap & bracket.**

C ⚡ II 2G Ex ia IIC T6 Gb & C ⚡ II 2D Ex ia IIb T44°C Db IP65-67.

SIL 3
on request
IP
67
Zones
1, 21, 2, 22

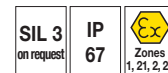
type	switches	Amb. temp.	code
SIB 70221-2	2 inductive detectors NAMUR P+F NJ2 V3N / N - NO	-20°C/+80°C	04747022





SK - Limit switch box IP67 anti-explosion IIC

Polyester coated aluminium box & cover - Stainless steel stem - Adjustable 3D position indicator - 2 wire inlets 1/2" NPT - Universal adjustable bracket VDI/VDE 3845 for NAMUR 1, 2, 3 & 4 - **Without gland pack & cap.**
 C E II 2G Ex d IIC T6/T5/T4 & C E II 2D Ex tb IIC T85°/100°C/135°C Db IP66-67

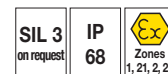


type	switches	amb. temp.	code
SK 01200	2 SPDT silver plated mechanical switches 250V AC - 5A / 24V DC-3A	-20°C/+80°C	0477012



SY - Limit switch box IP68 anti-explosion IIC

Coated polyester aluminium box & cover - Stainless steel stem - Adjustable 3D position indicator - 2 inlets M25 x 1,5 - F05 ISO pad - Stem VDI/VDE 3845 - **Without gland pack, cap & bracket.**
 C E II 2G Ex d IIC T6/T5/T4 & C E II 2D Ex tb IIC T110°/110°C/140°C Db IP68

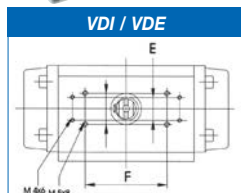


type	switches	amb. temp.	code
SY 01200-8	2 SPDT silver plated mechanical switches 250V AC - 5A	-20°C/+80°C	0475012
	Indicator for 3 way L valves		980186
	Indicator for 3 way T valves		980187



615 - Stainless steel bracket VDI/VDE 3845 for SF, SIB & SY limit switch boxes

type	length F (mm)	width E (mm)	stem height (mm)	height (mm)	code
NAMUR 1	80	30	45	20	061659N
NAMUR 2	80	30	55	30	061615N
NAMUR 3	130	30	55	30	061660N
NAMUR 4	130	30	75	50	061662N



Spare gland packs & caps

For wires Ø 3,2-8,7 mm	code
polyamide & glass fiber	
Gland pack ATEX SI M20 x 1,5	980185
Cap M20 x 1,5	980182
chrome-plated brass	
Gland pack ATEX ADF 1/2" NPT	980176
Cap ATEX ADF 1/2" NPT	980178
Gland pack ATEX ADF M20 x 1,5	980179
Cap ATEX ADF M20 x 1,5	980169
Gland pack ATEX ADF M25 x 1,5	980165
Cap ATEX ADF M25 x 1,5	980164

Position detectors

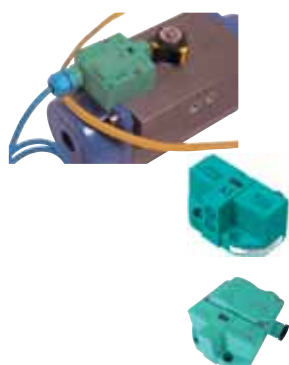
Inductive position detector IFM



type	switches	amb. temp.	code
IN 5225	Dual detector - IP 67 - 10-36V DC - 2 NO outlets - With base for M12 connector	-25°C/+80°C	121138N
EVC 811	M12 connector for IN 5225		121148
IN 0108	Dual detector - IP 67 - 20-250V AC/DC - 2 NO outlets - With base for M18 connector	-25°C/+80°C	121134N
E 10013	M18 connector for IN 0108		121137
IN 0110	Dual detector - IP 67 - 20-250V AC/DC - 2 NO outlets - With 2 m wire	-25°C/+80°C	121133N
Inductive position detector IFM with terminal chamber			
IN 0131	Dual detector - IP 67 - 20-250 V AC/DC - 2 NO outlets - With base for M20 gland pack	-25°C/+70°C	121279N
IN 5334	Dual detector - IP 67 - 10-36V DC - 2 NO outlets - With base for M12 + M25 connectors	-25°C/+70°C	121280N
IN 5409	Dual detector - IP 67 - 10-30V DC - 2 NO outlets - With base for M20 gland pack	-25°C/+70°C	121281N
ATEX inductive position detector IFM			
NN 5013	Dual detector - ATEX Ex ia IIC T6 - IP67 - 8V DC - 2 NC outlets - With base for M18 connector	-20°C/+70°C	121135N
E 1003A	M18 angle connector for NN 5013 - ATEX Ex ia IIC T6		121145
NN 5008	Dual detector - ATEX Ex ia IIC T6 - IP67 - 8V DC - 2 NC outlets - With base for M12 connector	-20°C/+70°C	121146N
ENC 04A	M12 angle connector for NN 5008 - ATEX Ex ia IIC T6		121140
Detector cam for inductive position detector IFM			
E17327 Ø65	Detector cam for ADA/ASR (Actreg) actuators		121270
E12517 Ø53	Detector cam for RE43 to RE101 (Alphair) actuators		121271
E17328 Ø102	Detector cam for RE116 to RE201 (Alphair) actuators		121274

not on stock, on request.

Inductive position detector P+F



type	switches	amb. temp.	code
NBN3-F31-Z8-V1	Dual detector - IP 67 - 6-60V DC - 2 NO outlets - With base for M12 connector	-25°C/+70°C	121131
Inductive position detector P+F with terminal chamber			
NBN3-F31K-E8-K	Dual detector - IP 67 - 10-30V DC - 2 PNP inlets & solenoid pilot valve outlet - With base for M12 + M20 gland pack - ⚠ Not for ADA/ASR (Actreg) actuators	-25°C/+70°C	122133
ATEX inductive position detector P+F			
NCN3-F31K-N4-K	Dual detector - ATEX EX ia IIC T6 - IP 67 - 8V DC - 2 NC outlets - With base for M12 + M20 gland pack		122136
Detector cam for inductive position detector P+F			
BT65A	Cam P+F Namur 1 & 2		122131
BT115A	Cam P+F Namur 3 & 4		122132

Quarter-turn actuators - HVAC - IP67

Specifications: Compact type - 90° operating angle ($\pm 2^\circ$, except for T15 $\pm 5^\circ$) - ISO 5211 pad, star connection - ABS plastic enclosure - Steel reducing box - Room temp.: -20°C/+60°C (except for T15: -15°C/+50°C) - S4 duty service: 50% of time (except for T15: S4 duty service: 30% of time).

Standard equipment: adjustable limit switches + 2 auxiliary limit switches - Thermal protection - 3D position indicator - Manual override by allen key - Parallel connection possible.



T15 - Electric actuator - 15 Nm

2-wire connection - Electric connection: M12 gland pack with 1,5 m cable.

type	fonction	torque (Nm)	operating time 90° (s)	electrical power (W)	ISO 5211		voltage	code
T15	On-off	15	12	30	F03/F05	11	110 - 230V AC	022500
T15	On-off	15	12	20	F03/F05	11	12 - 24V DC & 24V AC	022501



Standard



Wireless



Intelligent, regulation, timer

TCR02 - Electric actuator - 20 Nm

Electric connection: M10 gland pack with 1,5 m cable.

type	fonction	torque (Nm)	operating time 90° (s)	electrical power (W)	ISO 5211		voltage	code
On-off actuators								
TCR02N	On-off	20	10	15	F03/F05	11	95-265V AC/DC	024110
TCR02N	On-off	20	10	15	F03/F05	11	24V AC/DC	024111
TCR02N	On-off	15	15	15	F03/F05	11	12V DC	024112
TCR02NH	Quick-acting	15	6	25	F03/F05	11	95-265V AC/DC	024130
TCR02NH	Quick-acting	15	6	100	F03/F05	11	24V AC/DC	024131
TCR02NKT32	Capacitor return	15	15	36	F03/F05	11	95-265V AC/DC	024120
TCR02NKT32	Capacitor return	15	15	36	F03/F05	11	24V AC/DC	024121
TCR02D	Timer	20	10	15	F03/F05	11	95-265V AC/DC	024160
TCR02D	Timer	20	10	15	F03/F05	11	24V AC/DC	024161
Regulating actuators								
TCR02C	Clever	20	10	15	F03/F05	11	95-265V AC/DC	024140
TCR02C	Clever	20	10	15	F03/F05	11	24V AC/DC	024141
TCR02T	Regulation 4-20 mA	20	10	15	F03/F05	11	95-265V AC/DC	024150
TCR02T	Regulation 4-20 mA	20	10	15	F03/F05	11	24V AC/DC	024151
TCR02TKT32	Regulation 4-20 mA + Capacitor return	15	15	36	F03/F05	11	95-265V AC/DC	024190
TCR02TKT32	Regulation 4-20 mA + Capacitor return	15	15	36	F03/F05	11	24V AC/DC	024191

TCR05 - Electric actuator - 50 Nm

Electric connection: M20 gland pack with 1,5 m cable.

type	fonction	torque (Nm)	operating time 90° (s)	electrical power (W)	ISO 5211		voltage	code
On-off actuators								
TCR05N	On-off	50	12	25	F05/F07	14	95-265V AC/DC	024310
TCR05N	On-off	50	12	25	F05/F07	14	24V AC/DC	024311
TCR05N	On-off	50	12	25	F05/F07	14	12V DC	024312
TCR05NH	Quick-acting	40	5	40	F05/F07	14	95-265V AC/DC	024330
TCR05NH	Quick-acting	40	5	40	F05/F07	14	24V AC/DC	024331
TCR05NKT32	Capacitor return	45	12	40	F05/F07	14	95-265V AC/DC	024320
TCR05NKT32	Capacitor return	45	12	40	F05/F07	14	24V AC/DC	024321
Regulating actuators								
TCR05C	Clever	50	12	25	F05/F07	14	95-265V AC/DC	024340
TCR05C	Clever	50	12	25	F05/F07	14	24V AC/DC	024341
TCR05T	Regulation 4-20 mA	50	12	25	F05/F07	14	95-265V AC/DC	024350
TCR05T	Regulation 4-20 mA	50	12	25	F05/F07	14	24V AC/DC	024351
TCR05TKT32	Regulation 4-20 mA + Capacitor return	50	12	40	F05/F07	14	95-265V AC/DC	024390
TCR05TKT32	Regulation 4-20 mA + Capacitor return	50	12	40	F05/F07	14	24V AC/DC	024391



Standard



Capacitor return



Intelligent, regulation



TCR11 - Electric actuator - 100 Nm

Electric connection: 2x M14 gland pack with 1,5 m cable.

type	fonction	torque (Nm)	operating time 90° (s)	electrical power (W)	ISO 5211		voltage	code
On-off actuators								
TCR11N	On-off	110	10	100	F05/F07	17	95-265V AC/DC	024610
TCR11N	On-off	110	10	100	F05/F07	17	24V AC/DC	024611
TCR11NH	Quick-acting	80	5	100	F05/F07	17	95-265V AC/DC	024630
TCR11NH	Quick-acting	80	5	100	F05/F07	17	24V AC/DC	024631
TCR11NKT32	Capacitor return	95	10	100	F05/F07	17	95-265V AC/DC	024620
TCR11NKT32	Capacitor return	110	10	100	F05/F07	17	24V AC/DC	024621
Regulating actuators								
TCR11C	Clever	90	10	100	F05/F07	17	95-265V AC/DC	024640
TCR11C	Clever	90	10	100	F05/F07	17	24V AC/DC	024641
TCR11T	Regulation 4-20 mA	110	10	100	F05/F07	17	95-265V AC/DC	024650
TCR11T	Regulation 4-20 mA	110	10	100	F05/F07	17	24V AC/DC	024651
TCR11TKT32	Regulation 4-20 mA + Capacitor return	80	10	100	F05/F07	17	95-265V AC/DC	024690
TCR11TKT32	Regulation 4-20 mA + Capacitor return	80	10	100	F05/F07	17	24V AC/DC	024691

NEW

TCR20 - Electric actuator - 200 Nm

Electric connection: M20 gland pack with 1,5m cable.



type	fonction	torque (Nm)	operating time 90° (s)	electrical power (W)	ISO 5211		voltage	code
On-off actuators								
TCR20N	On-off	200	25	50	F07/F10	22	95-265V AC/DC	024700
TCR20N	On-off	200	25	80	F07/F10	22	24V AC/DC	024701
TCR20NKT32	Capacitor return	200	25	50	F07/F10	22	95-265V AC/DC	024710
TCR20NKT32	Capacitor return	200	25	80	F07/F10	22	24V AC/DC	024711

NEW

TCR40 - Electric actuator - 400 Nm

Electric connection: M20 gland pack with 1,5m cable.

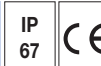


type	fonction	torque (Nm)	operating time 90° (s)	electrical power (W)	ISO 5211		voltage	code
On-off actuators								
TCR40N	On-off	400	25	50	F07/F10	22	95-265V AC/DC	024720
TCR40N	On-off	400	25	80	F07/F10	22	24V AC/DC	024721

Quarter-turn actuators - Industry - IP67

Specifications: Compact type - 90° operating angle - Comply with EN 15714-2 standard - ISO 5211 pad, star connection - Epoxy coated aluminium enclosure - Steel reducing box - Room temp.: -20°C/+70°C (except SA05-X: -20°C/+55°C).

Standard equipment: 2 adjustable limit switches + 2 auxiliary limit switches - Thermal protection - Position indicator with led - Supplied electrical connection: gland pack M20 x 1,5 (except SA05-X).



SA03 - Electric actuator - 30 Nm

Resistance heater 3W - Duty service: S2-15 min / S4: 50% of time - Declutchable manual override by key (included).

type	torque (Nm)	operating time 90° (s)	electrical power (W)	ISO 5211		voltage	code
SA03	30	12	18	F03/F05	11	230V AC	023000
SA03	30	9/7	18	F03/F05	11	24V AC/DC	023001



SA05 - Electric actuator - 50 Nm

Resistance heater 5W - Duty service: S2-15 min / S4: 50% of time - Manual override by key (included), except SA05-S.

type	torque (Nm)	operating time 90° (s)	electrical power (W)	ISO 5211		voltage	code
SA05	50	17	6	F03/F05/F07	14	230V AC	023010
SA05	50	10	15	F03/F05/F07	14	24V AC/DC	023011
SA05	50	11	6	F03/F05/F07	14	12V DC	023012
special execution: slow closing							
SA05-S	50	100	6	F03/F05/F07	14	230V AC	023020
SA05-S	50	100	6	F03/F05/F07	14	24V AC/DC	023021



SA05-X - ATEX electric actuator - 50 Nm

Resistance heater 5W - Manual override by key (included) - Duty service: S2-15 min / S4: 50% of time - C € II 2G Ex d IIB T4, areas 1 & 2.



type	torque (Nm)	operating time 90° (s)	electrical power (W)	ISO 5211		voltage	code
SA05-X	50	17	6	F03/F05/F07	14	230V AC	023310
SA05-X	50	17	6	F03/F05/F07	14	24V AC/DC	023311



type	code
Gland-pack ATEX 1/2" M20 x 1,5	980179
Cap ATEX 1/2" M20 x 1,5	980169



SA05-PCU - 4-20 mA / Proportional control unit electric actuator - 50 Nm

Includes control card 4-20 mA, 0-10 V, 2-10 V and potentiometer 4-20 mA.

type	torque (Nm)	operating time 90° (s)	electrical power (W)	ISO 5211		voltage	code
SA05-PCU	50	17	6	F03/F05/F07	14	230V AC	023050
SA05-PCU	50	17	6	F03/F05/F07	14	24V AC/DC	023051



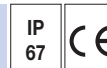
SA05-SCP - Fail safe / Safety electric actuator - 50 Nm

Back to original position if lack of current - Built-in security super capacitor.

type	torque (Nm)	operating time 90° (s)	electrical power (W)	ISO 5211		voltage	code
SA05-SCP	50	8	120	F03/F05/F07	14	230V AC	023065
SA05-SCP	50	8	60	F03/F05/F07	14	24V DC	023066

Specifications: Positive safety with spring return - Compact type - 90° operating angle $\pm 5^\circ$ - ISO 5211 pad, star connection - Epoxy coated aluminium enclosure - Steel reducing box - Room temp.: -20°C/+55°C.

Standard equipment: 2 adjustable limit switches + 2 auxiliary limit switches - Thermal protection - Position indicator with led - Supplied electrical connection: gland pack M20 x 1,5.



SR03 - Spring return electric actuator - 30 Nm

Resistance heater 20W - Duty service: S2-15 min - Manual override by key (included).

type	torque (Nm)	operating time 90° (s)	electrical power (W)	ISO 5211		voltage	code
SR03	30	10-35	4,7-10	F03/F05	11	230V AC	023070
SR03	30	10-35	4,7-10	F03/F05	11	24V AC/DC	023071



INV - Reverse box

For SA or NA actuator operation - 3 positions switch - Switch-off 240V-3A - IP66.

code
043800N



Specifications: Compact type - 90° operating angle (±5°) - ISO 5211 pad, star connection - Epoxy coated aluminium enclosure - Steel reducing box - Room temp.: -20°C/+70°C - Torque limiter (except NA06 & NA09) - S2 duty service: 70% of time.

Standard equipment: 2 adjustable limit switches - 2 dry auxiliary limit switches 250V 16A - Thermal protection - Resistance heater 20W - Position indicator - Manual override by handwheel - Supplied electrical connection: gland packing M20 x 1,5.



NA - Electric actuator

type	torque (Nm)	operating time 90° (s)	electrical power (W)	ISO		230V AC	3-400V AC	24V AC	24V DC
						code	code	code	code
NA06	60	17	15	F07	17	023110	023113	023111	023114
NA09	90	17	25	F07	17	023120	023123	023121	023124
NA15	150	20	40	F07/F10	17	023130	023133	023131	023134
NA28	280	24	40	F10/F12	22	023150	023153	023151	023154
NA38	380	24	60	F10/F12	27	023160	023163	-	-
NA60	600	29	90	F12/F14	27	023180	023183	-	-
NA100	1000	29	180	F12/F14	27	023200	023203	-	-
NA150	1500	87	98	F14/F16	36	023210	023213	-	-
NA200	2000	87	180	F14/F16	36	023220	023223	-	-
NA250	2500	87	180	F14/F16	46	023230	023233	-	-

NA-X - ATEX electric actuator

Specifications and equipment: same as NA actuator, except: II 2 G Ex d II B T4, areas 1 & 2.



type	torque (Nm)	operating time 90° (s)	electrical power (W)	ISO		230V AC
						code
NA06-X	60	17	15	F07	17	023320
NA09-X	90	17	25	F07	17	023330
NA15-X	150	20	40	F07/F10	17	023340
NA28-X	280	24	40	F10/F12	22	023360
NA38-X	380	24	60	F10/F12	27	023370
NA60-X	600	29	90	F12/F14	27	023390

type	code
Gland-pack ATEX 1/2" M20 x 1,5	980179
Cap ATEX 1/2" M20 x 1,5	980169

NA-PCU - 4-20 mA / Proportional control unit electric actuator

Specifications and equipment: same as NA - Includes control card & potentiometer 4-20 mA.

type	torque (Nm)	operating time 90° (s)	electrical power (W)	ISO		230V AC
						code
NA09-PCU	90	17	25	F07	17	023550
NA15-PCU	150	20	40	F07/F10	17	023560
NA28-PCU	280	24	40	F10/F12	22	023580

NA-RBP - Fail safe / Security electric actuator

Specifications and equipment: same as NA - Back to original position if lack of current - Built-in rechargeable security battery.

type	torque (Nm)	operating time 90° (s)	electrical power (W)	ISO		230V AC
						code
NA09-RBP	90	17	25	F07	17	023720
NA15-RBP	150	20	40	F07/F10	17	023730

Specifications: Positive safety with spring return - 90° operating angle - ISO 5211 pad, star connection - Epoxy coated aluminium enclosure - Room temp.: -20°C/+55°C - S2 duty service: 15 min.

Standard equipment: Resistance heater 20W - Manual override by handwheel.



SR - Spring return electric actuator

type	torque (Nm)	operating time 90° (s)	spring closing (s)	electrical power (W)	ISO		230V AC
							code
SR05	50	16/14	1	40	F07	14	023080
SR10	100	20/19	1	60	F07/F10	17	023090
SR30	300	89/82	2	60	F10/F12	22	023106

SR-X - ATEX spring return electric actuator

Specifications and equipment: same as SR actuator, except: II 2 G Ex d II B T4, areas 1 & 2.



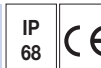
type	torque (Nm)	operating time 90° (s)	spring closing (s)	electrical power (W)	ISO		230V AC
							code
SR05-X	50	16/14	1	40	F07	14	023450
SR10-X	100	20/19	1	60	F07/F10	17	023460
SR30-X	300	89/82	2	60	F10/F12	22	023470

Quarter-turn Bernard actuators – IP68

2014/108/EU Directive - 2014/35/EU Directive.

Specifications: Compact type - 90° operating angle - On-off class A actuator acc. to EN 15714-2 - Protection C4 acc. to ISO 12944 - ISO 5211 pad, star connection - Epoxy coated aluminium enclosure - Lifetime lubrication - Room temp.: -20°C/+60°C - S4 duty service: 30% of time, up to 120 start/h at peak.

Standard equipment: 2 SPDT adjustable limit switches - 2 dry auxiliary limit switches - 3D position indicator - Manual override by hexagonal key 10mm - Electrical connection: 2 entries M20 (gland packing not included).



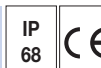
AQL - Electric actuator

type	torque (Nm)	operating time 90° (s)	electrical power (W)	ISO		230V AC + 24V DC code
AQ1L	15	13	20	F03/F04/F05	14	028400
AQ3L	30	15	20	F03/F04/F05	14	028410
AQ7L	70	15	20	F05/F07	22	028430

2014/108/EU Directive - 2014/35/EU Directive.

Specifications: Compact type - 90° operating angle - On-off class A actuator acc. to EN 15714-2 - Protection C4 acc. to ISO 12944 - ISO 5211 pad, star connection - Epoxy coated aluminium enclosure - Lifetime lubrication - Room temp.: -20°C/+60°C - S4 duty service: 30% of time, up to 360 start/h at peak.

Standard equipment: 2 SPDT adjustable limit switches - 2 dry auxiliary limit switches - 3D position indicator - Resistance heater - Torque limiter from AQ-25 to AQ-50 - Manual override by handwheel - Electrical connection: gland packing M20 (not included).



AQ SWITCH - Electric actuator

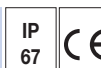
type	torque (Nm)	operating time 90° (s)	electrical power (W)		ISO		230V AC	3-400V AC	24V DC
			230V AC	3-400V AC			code	code	code
AQ5	50	16	15	30	F05/F07	14	028440	028445	028441
AQ10	100	25	15	30	F05/F07	17	028450	028455	028451
AQ15	150	25	30	30	F05/F07	17	028460	028465	028461
AQ25	250	30	40	40	F07/F10	22	028470	028475	028471
AQ30	300	35	40	40	F07/F10	27	028480	028485	-
AQ50	500	35	60	70	F07/F10	27	028490	028495	-

not on stock, on request.

Multi-turn Regada actuators - IP67

Specifications: On/off multi-turn actuators - ISO 5211 pad - S4 duty service: 25% of time / 10 cycles/hour.

Standard equipment: Resistance heater 20W - Torque limiter - Manual override by handwheel - Electrical connection: not included.



SO2 - Multi-turn electric actuator for rotating non-rising stem linear valves

Room temperature range: -10°C/+55°C.



type	torque (Nm)	speed (rpm)	electrical power (W)	ISO	stem (Ø x pitch)	230V AC	3-400V AC
						code	code
SO2	61	12,5	300	F10	20 x 4	027101	-
SO2	76	10	300	F10	20 x 4	027102	-
SO2	68	12,5	240	F10	20 x 4	-	027103
SO2	85	10	240	F10	20 x 4	-	027104

SO2-MO3 - Multi-turn electric actuator for rotating rising stem linear valves

Room temperature range: -25°C/+55°C.



type	torque (Nm)	speed (rpm)	electrical power (W)	ISO	stem (Ø x pitch)	230V AC code
SO2	38	20	300	F10	20 x 4	027100
MO3	60	40	500	F10	25 x 5	027150

Multi-turn Auma actuators - IP68

Specifications: On/off multi-turn actuators - ISO 5211 pad - Room temp.: -25°C/+80°C - S2 intermittent duty service: 15 min.

Standard equipment: Resistance heater 20W - Torque limiter - Manual override by handwheel - Electrical connection: M20, M25 & M32 x 1,5.



SA - Multi-turn electric actuator for rotating non-rising stem linear valves

Coupling type: B3 - Machined steel drive nut for splined shafts.

type	torque (Nm)	speed (rpm)	electrical power (W)	ISO	☑	3~400V AC code
SA07.6	60	45	200	F10	20	027026
SA10.2	120	45	400	F10	20	027036
SA14.2	250	45	750	F10	30	027046

SA - Multi-turn electric actuator for rotating rising stem linear valves

Coupling type: A - Non-machined brass drive nut.

type	torque (Nm)	speed (rpm)	electrical power (W)	ISO	Ø stem max. (mm)	3~400V AC code
SA07.2	30	45	100	F10	34	027015
SA07.6	60	45	200	F10	34	027025
SA10.2	120	45	400	F10	40	027035

Accessories for actuated valves

Stem extension for actuated valves

RH 100 - Stainless steel stem extension

Height 100 mm - ISO pad base F04/F05 - ISO pad top F05/F07.

valves type	Ø	code	Ø	code
715 XS	1/2" to 1 1/2"	RHVM01	2"	RHVM02
780 XS - 781 XS	1/2" to 1 1/2"	RHVM01	2"	RHVM02
747 XS	1/2" to 1 1/4"	RHVM01	1 1/2" to 2"	RHVM02
736 XS - 746 XS	1/2" to 1 1/4"	RHVM01	1 1/2" to 2"	RHVM02
702 - 703 XS	1/2" to 1 1/4"	RHVM01	1 1/2" to 2"	RHVM02
710 - 711	1/2" to 1 1/4"	RHVM01	1 1/2" to 2"	RHVM02
765 XS	1/2" to 1 1/4"	RHVM01	1 1/2" to 2"	RHVM02

Stem extension for all purposes

RHV-XS - Stainless steel stem extension

valves type	Ø	ISO pad	height (mm)	code
702 XS - 703 XS	1/2" to 3/4"	F03/F04	61	RHVXS03
715 XS - 736 XS	1" to 1 1/4"	F04/F05	67	RHVXS05
746 XS	1" to 1 1/4"	F04/F05	67	RHVXS05
747 XS - 765 XS	1 1/2" to 2"	F05/F07	86	RHVXS07
771 XS - 780 XS	1 1/2" to 2"	F05/F07	86	RHVXS07

Declutchable gear box

RMD - Declutchable gear box

Cast iron GG25 body - Steel wheel - To select a gear box, add the valve torque & the actuator torque (compressed springs).

type	valve		actuator		torque (Nm)	code
	ISO	☑ F	ISO	☑ M		
RMD 0A	F05	17	F05	14	125	041480
RMD 1A	F07/F10	22	F07	17	270	041481
RMD 2A	F10/F12	27	F10/F12	22	800	041482
RMD 3A	F12	27	F12	27	1150	041483
RMD 4A	F14	36	F14	36	2500	041484