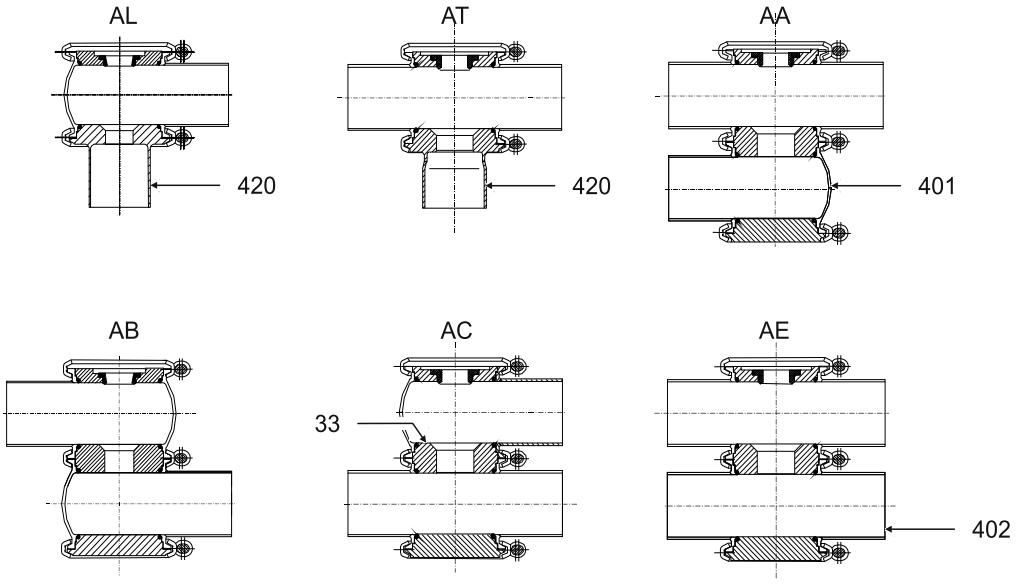
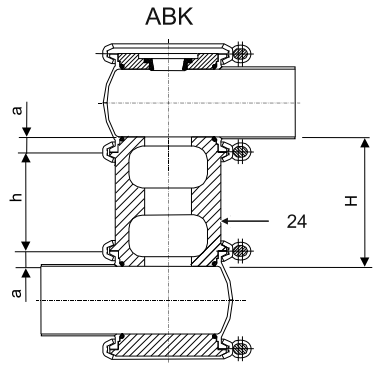
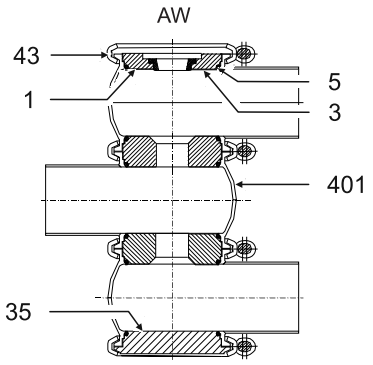
Control Valve Housings for ARCA Diaphragm Actuator







If an additional bearing is used item 35 is not used

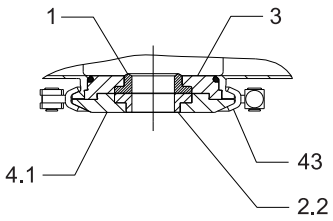


Table of dimensions

Dimension	DN 25	DN 40	DN 50	DN 65	DN 80	DN 100	DN 125	DN 150
a	12	12	12	15	15	15	15	15
h	15	52	52	75	75	80	170	170
H	39	76	76	105	105	115	200	200

When ordering, also specify the housing connection, item 420, or the seat ring, item 33, in addition to the housing combination. Does not apply for ABK!
For housing combinations AA, AB, AC and AE, an additional bearing is possible for nominal widths DN 125 and 6" IPS. This also applies for housing combinations AW and ABK in the nominal widths from DN 40 and from 2" OD.

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Spare Parts List, Items 1-5, 24, Metric Sizes (DN 25 - DN 65)

Item	Designation	Material	DN 25	DN 40	DN 50	DN 65
1	Sealing ring	EPDM FKM	924-084 924-082	924-084 924-082	924-084 924-082	924-085 924-083
2.1	Bearing, top Bearing, top 3A	PTFE/carbon SUSTA-PVDF	935-004 --	935-004 --	935-004 --	935-002 935-099
2.2	Bearing, bottom Bearing, bottom 3A	PTFE/carbon SUSTA-PVDF	935-001 935-098	935-001 935-098	935-001 935-098	935-002 935-099
3	Sealing disk	1.4404	221-141.01	221-141.02	221-141.02	221-141.03
4.1	Bearing disk D	1.4305	--	221-142.10	221-142.10	221-142.11
5	O-ring	EPDM FKM	930-309 930-168	930-144 930-171	930-144 930-171	930-150 930-176
24	3-stage seat	1.4404	229-168.19	229-168.21	229-168.22	229-168.27

Spare Parts List, Items 1-5, 24, Metric Sizes (DN 80 - DN 150)

Item	Designation	Material	DN 80	DN 100	DN 125	DN 150
1	Sealing ring	EPDM FKM	924-085 924-083	924-085 924-083	924-088 924-087	924-088 924-087
2.1	Bearing, top Bearing, top 3A	PTFE/carbon SUSTA-PVDF	935-002 935-099	935-002 935-099	935-003 935-102	935-003 935-102
2.2	Bearing, bottom Bearing, bottom 3A	PTFE/carbon SUSTA-PVDF	935-002 935-099	935-002 935-099	935-003 935-102	935-003 935-102
3	Sealing disk	1.4404	221-141.03	221-141.04	221-141.07	221-141.05
4.1	Bearing disk D	1.4305	221-142.11	221-142.12	221-142.13	221-142.13
5	O-ring	EPDM FKM	930-150 930-176	930-156 930-178	930-372 930-178	930-260 930-259
24	3-stage seat	1.4404	229-168.23	229-168.24	--	--

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Spare Parts List, V-Ring (DN 25 - DN 65)

Designation	Hole dia.	KVS Value	Material	DN 25	DN 40	DN 50	DN 65
V-ring	11	2.5	EPDM FKM	932-058 932-049	--	--	--
	16	4.0	EPDM FKM	932-058 932-049	--	--	--
	19	7.0	EPDM FKM	932-017 932-029	932-017 932-029	--	--
	24	11.0	EPDM FKM	932-017 932-029	932-017 932-029	932-017 932-029	--
	32	18.0	EPDM FKM	--	932-046 932-030	932-046 932-030	932-046 932-030
	37	26.0	EPDM FKM	--	--	932-019 932-032	932-019 932-032
	48	43.0	EPDM FKM	--	--	--	932-021 932-033
	62	50.0	EPDM FKM				932-023 932-034
	62	68.0	EPDM FKM	--	--	--	--
	62	85.0	EPDM FKM	--	--	--	--
	73	100	EPDM FKM	--	--	--	--
	90	150	EPDM FKM	--	--	--	--
	96	260	EPDM FKM	--	--	--	--
	115	260	EPDM FKM	--	--	--	--
	135	380	EPDM FKM	--	--	--	--

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Spare Parts List, V-Ring (DN 80 - DN 150)

Designation	Hole dia.	KVS Value	Material	DN 80	DN 100	DN 125	DN 150
V-ring	11	2.5	EPDM FKM	--	--	--	--
	16	4.0	EPDM FKM	--	--	--	--
	19	7.0	EPDM FKM	--	--	--	--
	24	11.0	EPDM FKM	--	--	--	--
	32	18.0	EPDM FKM	--	--	--	--
	37	26.0	EPDM FKM	932-019 932-032	--	--	--
	48	43.0	EPDM FKM	932-021 932-033	932-021 932-033	--	--
	62	50.0	EPDM FKM				
	62	68.0	EPDM FKM	932-023 932-034	932-023 932-034	--	--
	62	85.0	EPDM FKM	932-023 932-034	--	--	--
	73	100	EPDM FKM	--	932-024 932-035	932-024 932-035	--
	90	150	EPDM FKM	--	932-027 932-038	932-027 932-038	932-027 932-038
	96	260	EPDM FKM	--	--	932-028 932-039	--
	115	260	EPDM FKM	--	--	932-059 932-063	932-059 932-063
	135	380	EPDM FKM	--	--	932-045 932-044	932-045 932-044

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Spare Parts List, Seat Ring A, Metallic Seal, Metric Sizes (DN 25 - DN 65)

Item	Hole dia.	KVS Value	Material	DN 25	DN 40	DN 50	DN 65
33	5	0.4	1.4404	221-107.84	--	--	--
	7	1.0	1.4404	221-107.83	--	--	--
	11	2.5	1.4404	221-107.52	--	--	--
	16	4.0	1.4404	221-107.54	--	--	--
	19	11.0	1.4404	221-107.53	221-107.59	--	--
	24	11.0	1.4404	221-107.58	221-107.60	221-107.60	--
	32	18.0	1.4404	--	221-107.61	221-107.61	221-107.63
	37	26.0	1.4404	--	--	221-107.62	221-107.64
	48	43.0	1.4404	--	--	--	221-107.65
	62	50.0	1.4404	--	--	--	221-107.66
	62	68.0	1.4404	--	--	--	--
	62	85.0	1.4404	--	--	--	--
	73	100	1.4404	--	--	--	--
	90	150	1.4404	--	--	--	--
	96	260	1.4404	--	--	--	--

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Spare Parts List, Seat Ring A, Metallic Seal, Metric Sizes (DN 80 - DN 150)

Item	Hole dia.	KVS Value	Material	DN 80	DN 100	DN 125	DN 150
33	5	0.4	1.4404	--	--	--	--
	7	1.0	1.4404	--	--	--	--
	11	2.5	1.4404	--	--	--	--
	16	4.0	1.4404	--	--	--	--
	19	11.0	1.4404	--	--	--	--
	24	11.0	1.4404	--	--	--	--
	32	18.0	1.4404	--	--	--	--
	37	26.0	1.4404	221-107.64	--	--	--
	48	43.0	1.4404	221-107.65	221-107.67	--	--
	62	50.0	1.4404	--	--	--	--
	62	68.0	1.4404	221-107.66	221-107.68	--	--
	62	85.0	1.4404	221-107.66	--	--	--
	73	100	1.4404	--	221-107.69	221-107.71	--
	90	150	1.4404	--	221-107.70	221-107.72	221-107.74
	96	260	1.4404	--	--	221-107.73	--
	115	260	1.4404	--	221-107.70	221-107.72	221-107.75
	135	380	1.4404	--	--	221-107.73	221-107.76

Spare Parts List, Seat Ring A for V-Ring Seal, Metric Sizes (DN 25 - DN 65)

Item	Hole dia.	KVS Value	Material	DN 25	DN 40	DN 50	DN 65
33	11	2.5	1.4404	221-107.51	--	--	--
	16	4.0	1.4404	221-107.49	--	--	--
	19	7.0	1.4404	221-107.50	221-107.59	--	--
	24	11.0	1.4404	221-107.48	221-107.60	221-107.60	--
	32	18.0	1.4404	--	221-107.61	221-107.61	221-107.63
	37	26.0	1.4404	--	--	221-107.62	221-107.64
	48	43.0	1.4404	--	--	--	221-107.65
	62	50.0	1.4404	--	--	--	221-107.66
	62	68.0	1.4404	--	--	--	--
	62	85.0	1.4404	--	--	--	--
	73	100	1.4404	--	--	--	--
	90	150	1.4404	--	--	--	--
	96	260	1.4404	--	--	--	--

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Spare Parts List, Seat Ring A for V-Ring Seal, Metric Sizes (DN 80 - DN 150)

Item	Hole dia.	KVS Value	Material	DN 80	DN 100	DN 125	DN 150
33	11	2.5	1.4404	--	--	--	--
	16	4.0	1.4404	--	--	--	--
	19	7.0	1.4404	--	--	--	--
	24	11.0	1.4404	--	--	--	--
	32	18.0	1.4404	--	--	--	--
	37	26.0	1.4404	221-107.64	--	--	--
	48	43.0	1.4404	221-107.65	221-107.67	--	--
	62	50.0	1.4404	--	--	--	--
	62	68.0	1.4404	221-107.66	221-107.68	--	--
	62	85.0	1.4404	221-107.66	--	--	--
	73	100	1.4404	--	221-107.69	221-107.71	--
	90	150	1.4404	--	221-107.70	221-107.72	221-107.74
	96	260	1.4404	--	--	221-107.73	--
	115	260	1.4404	--	221-107.70	221-107.72	221-107.75
	135	380	1.4404	--	--	221-107.73	221-107.76

Spare Parts List, Items 35, 36, 43-45, 401, 402, Metric Sizes (DN 25 - DN 65)

Item	Designation	Material	DN 25	DN 40	DN 50	DN 65
35	Cover	1.4404	221-144.01	221-144.02	221-144.02	221-144.03
36	Locking ring	1.4301	--	--	221-143.02	221-143.03
43	Clamp connection KL	1.4401	221-507.02	221-507.04	221-507.04	221-507.09
44	Hex screw	A2-70	--	--	--	--
45	Hex nut	1.4305	912-035	912-035	912-035	912-036
401	Housing, 1 socket(s)	1.4404	221-101.19	221-101.21	221-101.22	221-101.05
402	Housing, 2 socket(s)	1.4404	221-102.41	221-102.43	221-102.44	221-102.05

Spare Parts List, Items 35, 36, 43-45, 401, 402, Metric Sizes (DN 80 - DN 150)

Item	Designation	Material	DN 80	DN 100	DN 125	DN 150
35	Cover	1.4404	221-144.03	221-144.04	221-144.06	221-144.05
36	Locking ring	1.4404	221-143.03	221-143.04	221-143.06	--
43	Clamp connection KL	1.4401	221-507.09	221-507.11	221-507.13	221-507.14
44	Hex screw	A2-70	--	--	901-296	901-296
45	Hex nut	1.4305	912-036	912-036	912-025	912-025
401	Housing, 1 socket(s)	1.4404	221-101.06	221-101.07	221-101.18	221-101.17
402	Housing, 2 socket(s)	1.4404	221-102.06	221-102.07	221-102.29	221-102.17

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Spare Parts List, Housing Connection A, Metallic Seal, Metric Sizes (DN 25 - DN 65)

Item	Hole dia.	KVS Value	Material	DN 25	DN 40	DN 50	DN 65
420	11	2.5	1.4404	221-132.75	--	--	--
	16	4.0	1.4404	221-132.78	--	--	--
	19	7.0	1.4404	221-132.80	221-132.94	--	--
	24	11.0	1.4404	221-132.79	221-131.91	221-132.95	--
	32	18.0	1.4404	--	221-107.61	221-132.96	221-132.98
	37	26.0	1.4404	--	--	221-132.97	221-407.04
	48	43.0	1.4404	--	--	--	221-132.56
	62	50.0	1.4404	--	--	--	221-407.05
	62	68.0	1.4404	--	--	--	--
	62	85.0	1.4404	--	--	--	--
	73	100	1.4404	--	--	--	--
	90	150	1.4404	--	--	--	--
	96	260	1.4404	--	--	--	--

Spare Parts List, Housing Connection A, Metallic Seal, Metric Sizes (DN 80 - DN 150)

Item	Hole dia.	KVS Value	Material	DN 80	DN 100	DN 125	DN 150
420	11	2.5	1.4404	--	--	--	--
	16	4.0	1.4404	--	--	--	--
	19	7.0	1.4404	--	--	--	--
	24	11.0	1.4404	--	--	--	--
	32	18.0	1.4404	--	--	--	--
	37	26.0	1.4404	221-132.99	--	--	--
	48	43.0	1.4404	221-131.10	221-131.13	--	--
	62	50.0	1.4404	--	--	--	--
	62	68.0	1.4404	221-131.11	221-131.17	--	--
	62	85.0	1.4404	221-131.11	--	--	--
	73	100	1.4404	--	221-131.23	221-131.29	--
	90	150	1.4404	--	221-131.27	221-131.30	--
	96	260	1.4404	--	--	221-131.31	--

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Spare Parts List

Control Valve Housings for ARCA Diaphragm Actuator

Spare Parts List, Housing Connection A for V-Ring Seal, Metric Sizes (DN 25 - DN 65)

Item	Hole dia.	KVS Value	Material	DN 25	DN 40	DN 50	DN 65
420	11	2.5	1.4404	221-132.82	--	--	--
	16	4.0	1.4404	221-132.83	--	--	--
	19	7.0	1.4404	221-132.84	221-132.57	--	--
	24	11.0	1.4404	221-132.85	221-132.89	221-132.58	--
	32	18.0	1.4404	--	221-132.90	221-132.59	221-132.61
	37	26.0	1.4404	--	--	221-132.60	221-407.91
	48	43.0	1.4404	--	--	--	221-132.92
	62	50.0	1.4404	--	--	--	221-407.93
	62	68.0	1.4404	--	--	--	--
	62	85.0	1.4404	--	--	--	--
	73	100	1.4404	--	--	--	--
	90	150	1.4404	--	--	--	--
	96	260	1.4404	--	--	--	--

Spare Parts List, Housing Connection A for V-Ring Seal, Metric Sizes (DN 80 - DN 150)

Item	Hole dia.	KVS Value	Material	DN 80	DN 100	DN 125	DN 150
420	11	2.5	1.4404	--	--	--	--
	16	4.0	1.4404	--	--	--	--
	19	7.0	1.4404	--	--	--	--
	24	11.0	1.4404	--	--	--	--
	32	18.0	1.4404	--	--	--	--
	37	26.0	1.4404	221-132.62	--	--	--
	48	43.0	1.4404	221-132.63	221-132.65	--	--
	62	50.0	1.4404	--	--	--	--
	62	68.0	1.4404	221-132.64	221-132.66	--	--
	62	85.0	1.4404	221-132.64	--	--	--
	73	100	1.4404	--	221-132.67	221-132.69	--
	90	150	1.4404	--	221-132.68	221-132.70	--
	96	260	1.4404	--	--	221-132.71	--

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Spare Parts List

Control Valve Housings for ARCA Diaphragm Actuator

Spare Parts List, Items 1-5, 24, Inch OD

Item	Designation	Material	1" OD	1.5" OD	2" OD	2.5" OD	3" OD	4" OD
1	Sealing ring	EPDM FKM	924-084 924-082	924-084 924-082	924-084 924-082	924-085 924-083	924-085 924-083	924-085 924-083
2.1	Bearing, top Bearing, 3A	PTFE/carbon SUSTA-PVDF	935-004 --	935-004 --	935-004 --	935-002 935-099	935-002 935-099	935-002 935-099
2.2	Bearing, bottom Bearing, 3A	PTFE/carbon SUSTA-PVDF	935-001 935-098	935-001 935-098	935-001 935-098	935-002 935-099	935-002 935-099	935-002 935-099
3	Sealing disk	1.4404	221-141.01	221-141.02	221-141.02	221-141.03	221-141.03	221-141.04
4.1	Bearing disk D	1.4305	--	221-142.10	221-142.10	221-142.11	221-142.11	221-142.12
5	O-ring	EPDM FKM	930-309 930-168	930-144 930-171	930-144 930-171	930-150 930-176	930-150 930-176	930-156 930-178

Spare Parts List, Seat Ring A, Metallic Seal, Inch OD

Item	Hole dia.	KVS Value	Material	1" OD	1.5" OD	2" OD	2.5" OD	3" OD	4" OD
33	11	2.5	1.4404	221-107.52	--	--	--	--	--
	16	4.0	1.4404	221-107.54	--	--	--	--	--
	19	11.0	1.4404	221-107.53	221-107.59	--	--	--	--
	24	11.0	1.4404	221-107.58	221-107.60	221-107.60	--	--	--
	32	18.0	1.4404	--	221-107.61	221-107.61	221-107.63	--	--
	37	26.0	1.4404	--	--	221-107.62	221-107.64	221-107.64	--
	48	43.0	1.4404	--	--	--	221-107.65	221-107.65	221-107.67
	62	50.0	1.4404	--	--	--	221-107.66	--	--
	62	68.0	1.4404	--	--	--	--	221-107.66	221-107.68
	62	85.0	1.4404	--	--	--	--	221-107.66	--
	73	100	1.4404	--	--	--	--	--	221-107.69
	90	150	1.4404	--	--	--	--	--	221-107.70

Spare Parts List, Seat Ring A for V-Ring Seal, Inch OD

Item	Hole dia.	KVS Value	Material	1" OD	1.5" OD	2" OD	2.5" OD	3" OD	4" OD
33	11	2.5	1.4404	221-107.51	--	--	--	--	--
	16	4.0	1.4404	221-107.49	--	--	--	--	--
	19	7.0	1.4404	221-107.50	221-107.59	--	--	--	--
	24	11.0	1.4404	221-107.48	221-107.60	221-107.60	--	--	--
	32	18.0	1.4404	--	221-107.61	221-107.61	221-107.63	--	--
	37	26.0	1.4404	--	--	221-107.62	221-107.64	221-107.64	--
	48	43.0	1.4404	--	--	--	221-107.65	221-107.65	221-107.67
	62	50.0	1.4404	--	--	--	221-107.66	--	--
	62	68.0	1.4404	--	--	--	--	221-107.66	221-107.68
	62	85.0	1.4404	--	--	--	--	221-107.66	--
	73	100	1.4404	--	--	--	--	--	221-107.69
	90	150	1.4404	--	--	--	--	--	221-107.70

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Spare Parts List

Control Valve Housings for ARCA Diaphragm Actuator

Spare Parts List, Items 35, 36, 43-45, 401, 402, Inch OD

Item	Designation	Material	1" OD	1.5" OD	2" OD	2.5" OD	3" OD	4" OD
35	Cover	1.4404	221-144.01	221-144.02	221-144.02	221-144.03	221-144.03	221-144.04
36	Locking ring	1.4301	--	--	221-143.02	221-143.03	221-143.03	221-143.04
43	Clamp connection KL	1.4401	221-507.02	221-507.04	221-507.04	221-507.09	221-507.09	221-507.11
401	Housing, 1 socket(s)	1.4404	221-101.27	221-101.28	221-101.29	221-101.30	221-101.31	221-101.32
402	Housing, 2 socket(s)	1.4404	221-102.52	221-102.53	221-102.54	221-102.55	221-102.56	221-102.57

Spare Parts List, Housing Connection A, Metallic Seal, Inch OD

Item	Hole dia.	KVS Value	Material	1" OD	1.5" OD	2" OD	2.5" OD	3" OD	4" OD
420	11	2.5	1.4404	221-407.06	--	--	--	--	--
	16	4.0	1.4404	221-407.07	--	--	--	--	--
	19	7.0	1.4404	221-407.08	--	--	--	--	--
	24	11.0	1.4404	--	221-132.48	--	--	--	--
	32	18.0	1.4404	--	221-407.11	--	--	--	--
	37	26.0	1.4404	--	--	221-407.14	--	--	--
	48	43.0	1.4404	--	--	221-132.98	221-407.20	221-407.23	--
	62	50.0	1.4404	--	--	--	221-107.66	--	--
	62	85.0	1.4404	--	--	--	--	221-407.24	--

Spare Parts List, Housing Connection A for V-Ring Seal, Inch OD

Item	Hole dia.	KVS Value	Material	1" OD	1.5" OD	2" OD	2.5" OD	3" OD	4" OD
420	11	2.5	1.4404	221-132.87	--	--	--	--	--
	19	7.0	1.4404	221-132.45	221-132.40	221-132.42	--	--	--
	24	11.0	1.4404	221-131.85	221-131.86	221-132.43	--	--	--
	32	18.0	1.4404	--	221-132.88	--	--	--	--
	37	26.0	1.4404	--	221-132.41	221-132.44	221-132.54	221-132.37	--
	48	43.0	1.4404	--	--	--	221-132.38	221-132.36	--
	62	50.0	1.4404	--	--	--	--	221-407.44	
	62	68.0	1.4404	--	--	--	--	--	--
	62	85.0	1.4404	--	--	--	--	221-407.44	--
	73	100	1.4404	--	--	--	--	--	221-131.26
	90	150	1.4404	--	--	--	--	--	221-132.39

Spare Parts List, Items 1-5, 24, Inch IPS

Item	Designation	Material	2" IPS	3" IPS	4" IPS	6" IPS
1	Sealing ring	EPDM FKM	924-084 924-082	924-085 924-083	924-085 924-083	924-088 924-087
2.1	Bearing, top Bearing, 3A	PTFE/carbon SUSTA-PVDF	935-004 --	935-002 935-099	935-002 935-099	935-003 935-102
2.2	Bearing, bottom Bearing, 3A	PTFE/carbon SUSTA-PVDF	935-001 935-098	935-002 935-099	935-002 935-099	935-003 935-102

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Spare Parts List, Items 1-5, 24, Inch IPS (Forts.)

Item	Designation	Material	2" IPS	3" IPS	4" IPS	6" IPS
3	Sealing disk	1.4404	221-141.02	221-141.03	221-141.04	221-141.05
4.1	Bearing disk D	1.4305	221-142.10	221-142.11	221-142.12	221-142.14
5	O-ring	EPDM FKM	930-144 930-171	930-150 930-176	930-156 930-178	930-372 930-178

Spare Parts List, Seat Ring A, Metallic Seal, Inch IPS

Item	Hole dia.	KVS Value	Material	2" IPS	3" IPS	4" IPS	6" IPS
33	24	11.0	1.4404	221-107.60	--	--	--
	32	18.0	1.4404	221-107.61	--	--	--
	37	26.0	1.4404	221-107.62	221-107.64	--	--
	48	43.0	1.4404	--	221-107.65	221-107.67	--
	62	68.0	1.4404	--	221-107.66	221-107.68	--
	62	85.0	1.4404	--	221-107.66	--	--
	73	100	1.4404	--	--	221-107.69	--
	90	150	1.4404	--	--	221-107.70	221-107.74
	96	260	1.4404	--	--	--	--
	115	260	1.4404	--	--	--	221-107.75
	135	380	1.4404	--	--	--	221-107.76

Spare Parts List, Seat Ring A for V-Ring Seal, Inch IPS

Item	Hole dia.	KVS Value	Material	2" IPS	3" IPS	4" IPS	6" IPS
33	24	11.0	1.4404	221-107.60	--	--	--
	32	18.0	1.4404	221-107.61	--	--	--
	37	26.0	1.4404	221-107.62	221-107.64	--	--
	48	43.0	1.4404	--	221-107.65	221-107.67	--
	62	68.0	1.4404	--	221-107.66	221-107.68	--
	62	85.0	1.4404	--	221-107.66		--
	73	100	1.4404	--	--	221-107.69	--
	90	150	1.4404	--	--	221-107.70	221-107.74
	115	260	1.4404	--	--	--	221-107.75
	135	380	1.4404	--	--	--	221-107.76

Spare Parts List, Items 35, 36, 43-45, 401, 402, Inch IPS

Item	Designation	Material	2" IPS	3" IPS	4" IPS	6" IPS
35	Cover	1.4404	221-144.02	221-144.03	221-144.04	221-144.05
36	Locking ring	1.4301	--	--	--	--
43	Clamp connection KL	1.4401	221-507.04	221-507.03	221-507.11	221-507.14
401	Housing, 1 socket(s)	1.4404	221-101.37	35	221-101.36	221-101.17
402	Housing, 2 socket(s)	1.4404	221-102.62	221-102.59	221-102.60	221-102.17

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Spare Parts List

Control Valve Housings for ARCA Diaphragm Actuator

Spare Parts List, Housing Connection A, Metallic Seal, Inch IPS

Item	Hole dia.	KVS Value	Material	2" IPS	3" IPS	4" IPS	6" IPS
420	62	150	1.4404	--	--	--	221-131.55
	90	85.0	1.4404	--	--	--	221-131.55
	115	260	1.4404	--	--	--	221-407.01
	135	380	1.4404	--	--	--	221-407.02

Spare Parts List, Housing Connection A for V-Ring Seal, Inch IPS

Item	Hole dia.	KVS Value	Material	2" IPS	3" IPS	4" IPS	6" IPS
420	90	150	1.4404	--	--	--	221-132.72
	115	260	1.4404	--	--	--	221-132.73
	135	380	1.4404	--	--	--	221-132.74

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