Mil-Spec O-Ring Cross-Reference by AS568 Dash

Revision 2026-10-12. Compiled by Conquest Seal Corporation, a distributor of O-rings, seals and gaskets, from the public DLA ASSIST records each family names. Online: conquestseal.com/charts/mil-spec-o-ring-cross-reference.

License: CC BY 4.0 (creativecommons.org/licenses/by/4.0/). The table may be reused with credit to Conquest Seal Corporation and a link to conquestseal.com.

Conquest Seal is a distributor. The parts are made by manufacturers, on the relevant qualified products list where the document has one, and Conquest Seal is not itself listed on any qualified products list. Orders are handled under Conquest Seal's AS9100D quality management system, whose certificate scope includes distribution.

A part number on the same dash names the same nominal size under a different document. The compound, the tolerances and the inspection come from that document, so one part number is not a substitute for another unless the print allows it.

This table is Conquest Seal's own compilation of public US Government records: the DoD drawings and slash sheets on DLA ASSIST, and the DoD cancellation notices that carry a part-number cross-reference. Each family's dash list was taken from its sheet or notice, and sample rows were compared with the AS568 nominal size; every row compared matched. Only part numbers and dash numbers are printed here, with no dimension or tolerance figure.

To look up one part number and open its size page, use the O-ring part number cross-reference tool. For each document's status and the successor its record names, see the mil-spec O-ring status tracker.

The 20 part-number families and their records

Each family is listed only where its DoD record ties its dashes to the AS568 sizes. The tolerance column compares the sheet's tolerance with AS568's in words only; the drawing governs.

Part number form	Document	Dashes listed	Status and successor	Tolerance against AS568	Record and read date
MS28775-xxx	MS28775, hydraulic O-ring drawing under MIL-P-25732 Marked by dash below: sheet note 5 (182 sizes inactive for new design) and sheet note 1 (static seals only).	349: 001-050, 102-178, 201-284, 309-395, 425-475	Canceled 2000-09-29, superseded by SAE-AS28775 with the part numbers unchanged	Equal to AS568's at the smaller sizes, tighter at the larger sizes (every row checked)	DLA ASSIST ident 41724, 2026-09-29
M83461/1-xxx	MIL-P-83461/1, hydraulic nitrile O-ring sheet The sheet states that its dash numbers conform with the AS568 dash system; its Table II sizes are not MIL-G-5514 gland sizes.	349: 001-050, 102-178, 201-284, 309-395, 425-475	Canceled 2003-10-01; DoD withdrew its adoption of SAE-AMS-P-83461/1 on 2010-01-20, naming SAE-AS83461/1	Equal on the rows checked	DLA ASSIST ident 33814, 2026-09-29
M83461/2-9xx	MIL-P-83461/2, hydraulic nitrile boss gasket sheet The part number is M83461/2 with the three-digit AS568 dash, as the sheet's example M83461/2-903 shows.	20: 901-914, 916, 918, 920, 924, 928, 932	Canceled 2003-10-01; DoD withdrew its adoption of SAE-AMS-P-83461/2 on 2010-01-20, naming SAE-AS83461/2	Equal on the rows checked	DLA ASSIST ident 71937, 213940, 277054, 2026-09-29
MS28778-n	MS28778, straight thread tube fitting boss gasket drawing under MIL-P-5510 The dash is the tube OD in sixteenths: MS28778-2 is at the AS568-902 nominal size.	14: 902-906, 908, 910, 912, 914, 916, 920, 924, 928, 932	Canceled 2001-03-01, superseded by SAE-AS28778 with the part numbers unchanged	Tighter from -8 (all 14 rows compared)	DLA ASSIST ident 41727, 2026-09-29

Part number form	Document	Dashes listed	Status and successor	Tolerance against AS568	Record and read date
MS29513-xxx	MS29513, fuel-resistant O-ring drawing under MIL-P-5315	316: 001-050, 110-178, 210-284, 325-395, 425-475	Canceled 2001-03-01, superseded by SAE-AS29513 with the part numbers unchanged	Tighter at the larger sizes	DLA ASSIST ident 41788, 2026-09-27
MS29512-yy	MS29512, fuel-resistant boss gasket drawing under MIL-P-5315 The dash is the tube OD in sixteenths: MS29512-01 is at the AS568-901 nominal size.	20: 901-914, 916, 918, 920, 924, 928, 932	Canceled 2001-03-01, superseded by SAE-AS29512 with the part numbers unchanged	Tighter from -07	DLA ASSIST ident 41787, 2026-09-27
MS9021-xxx	MS9021, AMS7271 nitrile O-ring drawing	320: 001-050, 106-178, 210-284, 325-395, 425-475	Canceled 1998-12-02; the notice refers future acquisitions to AS3578, part number for part number	Tighter at the larger sizes (rows checked)	DLA ASSIST ident 37639, 2026-09-29
AS3578-xxx	SAE AS3578, AMS7271 nitrile O-ring Listed at the 320 dashes the MS9021 cancellation notice cross-references, MS9021-xxx to AS3578-xxx.	320: 001-050, 106-178, 210-284, 325-395, 425-475	SAE: Reaffirmed 2018-08-23; DoD adoption Active	Not stated: the SAE text was not read	DLA ASSIST ident 37639, 200255, 2026-09-29
MS29561-xxx	MS29561, synthetic-lubricant-resistant O-ring drawing under MIL-R-7362	191: 004-028, 110-149, 210-274, 325-349, 425-460	Canceled 2001-03-01, superseded by SAE-AS29561 with the part numbers unchanged	Not compared	DLA ASSIST ident 41825, 2026-09-29
M83485/1-xxx and -9xx	MIL-R-83485/1, low-temperature FKM O-ring sheet	369: 001-050, 102-178, 201-284, 309-395, 425-475, 901-914, 916, 918, 920, 924, 928, 932	Canceled 2002-10-23; future acquisitions may refer to SAE-AMS-R-83485/1, which SAE canceled in June 2015	Equal on the rows checked	DLA ASSIST ident 33840, 212228, 2026-09-29
M25988/1-xxx and -9xx	MIL-DTL-25988/1, fluorosilicone O-ring sheet	369: 001-050, 102-178, 201-284, 309-395, 425-475, 901-914, 916, 918, 920, 924, 928, 932	Active (validation notice 2026-04-21); the base MIL-DTL-25988 is inactive for new design	Equal at 368 of 369 dashes; tighter at -164 (all rows compared)	DLA ASSIST ident 18214, 2026-09-29
M25988/2-xxx	MIL-DTL-25988/2, fluorosilicone O-ring sheet (dimensions by reference to /1)	349: 001-050, 102-178, 201-284, 309-395, 425-475	Active (validation notice 2026-04-21)	As M25988/1	DLA ASSIST ident 18215, 18214, 2026-09-29
M25988/3-xxx	MIL-DTL-25988/3, fluorosilicone O-ring sheet (dimensions by reference to /1)	349: 001-050, 102-178, 201-284, 309-395, 425-475	Active (validation notice 2026-04-21)	As M25988/1	DLA ASSIST ident 18216, 18214, 2026-09-29
M25988/4-xxx	MIL-DTL-25988/4, fluorosilicone O-ring sheet (dimensions by reference to /1)	349: 001-050, 102-178, 201-284, 309-395, 425-475	Active (validation notice 2026-04-21)	As M25988/1	DLA ASSIST ident 18217, 18214, 2026-09-29
MS9386-xxx	MS9386, AMS7267 silicone O-ring drawing Printed in the DoD form: the notice keeps the MS part number.	349: 001-050, 102-178, 201-284, 309-395, 425-475	Canceled 1999-10-15, superseded by SAE-AS9386 with the part numbers unchanged	Tighter at the larger sizes	DLA ASSIST ident 37861, 2026-09-27
MS9068-xxx	MS9068, AMS3304 silicone O-ring drawing	229: 004-045, 110-163, 210-281, 325-349, 425-460	Canceled 1999-12-14; the notice refers future acquisitions to AS3582, part number for part number	Tighter at the larger sizes (rows checked)	DLA ASSIST ident 37660, 2026-09-29

Part number form	Document	Dashes listed	Status and successor	Tolerance against AS568	Record and read date
AS3582-xxx	SAE AS3582, AMS3304 silicone O-ring Listed at the 229 dashes the MS9068 cancellation notice cross-references, MS9068-xxx to AS3582-xxx.	229: 004-045, 110-163, 210-281, 325-349, 425-460	SAE: Reaffirmed 2018-08-23; DoD adoption Active	Not stated: the SAE text was not read	DLA ASSIST ident 37660, 201167, 2026-09-29
M83412/1-xxx and -9xx	MIL-R-83412/1, hydrazine-resistant EPDM O-ring sheet The sheet marks the sizes that are not MIL-G-5514 sizes.	369: 001-050, 102-178, 201-284, 309-395, 425-475, 901-914, 916, 918, 920, 924, 928, 932	Canceled 2002-10-08; future acquisitions may refer to SAE-AMS-R-83412/1	Equal on the rows checked	DLA ASSIST ident 33724, 212184, 2026-09-29
AN6230-n (legacy)	AN6230, Air Force-Navy hydraulic O-ring standard Legacy callout: listed at the MS28775 dash its chart names.	52: 223-274	Canceled 1993-12-01; the notice's chart takes AN6230-1 to -52 to MS28775-223 to -274	As MS28775	DLA ASSIST ident 54710, 41724, 2026-09-29
MS9385-yy (legacy)	MS9385, AMS7267 silicone boss gasket drawing Legacy callout. The dash is the tube OD in sixteenths: MS9385-01 is at the AS568-901 nominal size.	20: 901-914, 916, 918, 920, 924, 928, 932	Canceled 1999-12-29 for SAE-AS9385; SAE canceled AS9385 in October 2020, and DoD withdrew its adoption on 2024-02-22, naming SAE-AS9386	Tighter from -07	DLA ASSIST ident 37860, 207707, 2026-09-27

Part numbers by AS568 dash

Grouped by series. Each dash links to its AS568 size page. A cell lists the part numbers as the record prints them; an empty cell means no family in this table lists that dash. Marks: [i] MS28775 sheet note 5: inactive for new design; [s] MS28775 sheet note 1: static seals only.

Mil-spec O-ring part numbers at each AS568 dash, revision 2026-10-12

AS568 dash	Nitrile, hydraulic	Nitrile, fuel	Nitrile, AMS7271	Synthetic lubricant, MIL-R-7362	FKM, low temperature	Fluorosilicone	Silicone	EPDM, hydrazine	Legacy callouts
0xx series									
-001	MS28775-001 M83461/1-001	MS29513-001	MS9021-001 AS3578-001		M83485/1-001	M25988/1-001 M25988/2-001 M25988/3-001 M25988/4-001	MS9386-001	M83412/1-001	
-002	MS28775-002 M83461/1-002	MS29513-002	MS9021-002 AS3578-002		M83485/1-002	M25988/1-002 M25988/2-002 M25988/3-002 M25988/4-002	MS9386-002	M83412/1-002	
-003	MS28775-003 M83461/1-003	MS29513-003	MS9021-003 AS3578-003		M83485/1-003	M25988/1-003 M25988/2-003 M25988/3-003 M25988/4-003	MS9386-003	M83412/1-003	
-004	MS28775-004 M83461/1-004	MS29513-004	MS9021-004 AS3578-004	MS29561-004	M83485/1-004	M25988/1-004 M25988/2-004 M25988/3-004 M25988/4-004	MS9386-004 MS9068-004 AS3582-004	M83412/1-004	
-005	MS28775-005 M83461/1-005	MS29513-005	MS9021-005 AS3578-005	MS29561-005	M83485/1-005	M25988/1-005 M25988/2-005 M25988/3-005 M25988/4-005	MS9386-005 MS9068-005 AS3582-005	M83412/1-005	
-006	MS28775-006 M83461/1-006	MS29513-006	MS9021-006 AS3578-006	MS29561-006	M83485/1-006	M25988/1-006 M25988/2-006 M25988/3-006 M25988/4-006	MS9386-006 MS9068-006 AS3582-006	M83412/1-006	

AS568 dash	Nitrile, hydraulic	Nitrile, fuel	Nitrile, AMS7271	Synthetic lubricant, MIL-R-7362	FKM, low temperature	Fluorosilicone	Silicone	EPDM, hydrazine	Legacy callouts
-007	MS28775-007 M83461/1-007	MS29513-007	MS9021-007 AS3578-007	MS29561-007	M83485/1-007	M25988/1-007 M25988/2-007 M25988/3-007 M25988/4-007	MS9386-007 MS9068-007 AS3582-007	M83412/1-007	
-008	MS28775-008 M83461/1-008	MS29513-008	MS9021-008 AS3578-008	MS29561-008	M83485/1-008	M25988/1-008 M25988/2-008 M25988/3-008 M25988/4-008	MS9386-008 MS9068-008 AS3582-008	M83412/1-008	
-009	MS28775-009 M83461/1-009	MS29513-009	MS9021-009 AS3578-009	MS29561-009	M83485/1-009	M25988/1-009 M25988/2-009 M25988/3-009 M25988/4-009	MS9386-009 MS9068-009 AS3582-009	M83412/1-009	
-010	MS28775-010 M83461/1-010	MS29513-010	MS9021-010 AS3578-010	MS29561-010	M83485/1-010	M25988/1-010 M25988/2-010 M25988/3-010 M25988/4-010	MS9386-010 MS9068-010 AS3582-010	M83412/1-010	
-011	MS28775-011 M83461/1-011	MS29513-011	MS9021-011 AS3578-011	MS29561-011	M83485/1-011	M25988/1-011 M25988/2-011 M25988/3-011 M25988/4-011	MS9386-011 MS9068-011 AS3582-011	M83412/1-011	
-012	MS28775-012 M83461/1-012	MS29513-012	MS9021-012 AS3578-012	MS29561-012	M83485/1-012	M25988/1-012 M25988/2-012 M25988/3-012 M25988/4-012	MS9386-012 MS9068-012 AS3582-012	M83412/1-012	
-013	MS28775-013[S] M83461/1-013	MS29513-013	MS9021-013 AS3578-013	MS29561-013	M83485/1-013	M25988/1-013 M25988/2-013 M25988/3-013 M25988/4-013	MS9386-013 MS9068-013 AS3582-013	M83412/1-013	
-014	MS28775-014[S] M83461/1-014	MS29513-014	MS9021-014 AS3578-014	MS29561-014	M83485/1-014	M25988/1-014 M25988/2-014 M25988/3-014 M25988/4-014	MS9386-014 MS9068-014 AS3582-014	M83412/1-014	
-015	MS28775-015[S] M83461/1-015	MS29513-015	MS9021-015 AS3578-015	MS29561-015	M83485/1-015	M25988/1-015 M25988/2-015 M25988/3-015 M25988/4-015	MS9386-015 MS9068-015 AS3582-015	M83412/1-015	
-016	MS28775-016[S] M83461/1-016	MS29513-016	MS9021-016 AS3578-016	MS29561-016	M83485/1-016	M25988/1-016 M25988/2-016 M25988/3-016 M25988/4-016	MS9386-016 MS9068-016 AS3582-016	M83412/1-016	
-017	MS28775-017[S] M83461/1-017	MS29513-017	MS9021-017 AS3578-017	MS29561-017	M83485/1-017	M25988/1-017 M25988/2-017 M25988/3-017 M25988/4-017	MS9386-017 MS9068-017 AS3582-017	M83412/1-017	
-018	MS28775-018[S] M83461/1-018	MS29513-018	MS9021-018 AS3578-018	MS29561-018	M83485/1-018	M25988/1-018 M25988/2-018 M25988/3-018 M25988/4-018	MS9386-018 MS9068-018 AS3582-018	M83412/1-018	
-019	MS28775-019[S] M83461/1-019	MS29513-019	MS9021-019 AS3578-019	MS29561-019	M83485/1-019	M25988/1-019 M25988/2-019 M25988/3-019 M25988/4-019	MS9386-019 MS9068-019 AS3582-019	M83412/1-019	
-020	MS28775-020[S] M83461/1-020	MS29513-020	MS9021-020 AS3578-020	MS29561-020	M83485/1-020	M25988/1-020 M25988/2-020 M25988/3-020 M25988/4-020	MS9386-020 MS9068-020 AS3582-020	M83412/1-020	
-021	MS28775-021[S] M83461/1-021	MS29513-021	MS9021-021 AS3578-021	MS29561-021	M83485/1-021	M25988/1-021 M25988/2-021 M25988/3-021 M25988/4-021	MS9386-021 MS9068-021 AS3582-021	M83412/1-021	
-022	MS28775-022[S] M83461/1-022	MS29513-022	MS9021-022 AS3578-022	MS29561-022	M83485/1-022	M25988/1-022 M25988/2-022 M25988/3-022 M25988/4-022	MS9386-022 MS9068-022 AS3582-022	M83412/1-022	
-023	MS28775-023[S] M83461/1-023	MS29513-023	MS9021-023 AS3578-023	MS29561-023	M83485/1-023	M25988/1-023 M25988/2-023 M25988/3-023 M25988/4-023	MS9386-023 MS9068-023 AS3582-023	M83412/1-023	
-024	MS28775-024[S] M83461/1-024	MS29513-024	MS9021-024 AS3578-024	MS29561-024	M83485/1-024	M25988/1-024 M25988/2-024 M25988/3-024 M25988/4-024	MS9386-024 MS9068-024 AS3582-024	M83412/1-024	
-025	MS28775-025[S] M83461/1-025	MS29513-025	MS9021-025 AS3578-025	MS29561-025	M83485/1-025	M25988/1-025 M25988/2-025 M25988/3-025 M25988/4-025	MS9386-025 MS9068-025 AS3582-025	M83412/1-025	

AS568 dash	Nitrile, hydraulic	Nitrile, fuel	Nitrile, AMS7271	Synthetic lubricant, MIL-R-7362	FKM, low temperature	Fluorosilicone	Silicone	EPDM, hydrazine	Legacy callouts
-026	MS28775-026[s] M83461/1-026	MS29513-026	MS9021-026 AS3578-026	MS29561-026	M83485/1-026	M25988/1-026 M25988/2-026 M25988/3-026 M25988/4-026	MS9386-026 MS9068-026 AS3582-026	M83412/1-026	
-027	MS28775-027[s] M83461/1-027	MS29513-027	MS9021-027 AS3578-027	MS29561-027	M83485/1-027	M25988/1-027 M25988/2-027 M25988/3-027 M25988/4-027	MS9386-027 MS9068-027 AS3582-027	M83412/1-027	
-028	MS28775-028[s] M83461/1-028	MS29513-028	MS9021-028 AS3578-028	MS29561-028	M83485/1-028	M25988/1-028 M25988/2-028 M25988/3-028 M25988/4-028	MS9386-028 MS9068-028 AS3582-028	M83412/1-028	
-029	MS28775-029[i] M83461/1-029	MS29513-029	MS9021-029 AS3578-029		M83485/1-029	M25988/1-029 M25988/2-029 M25988/3-029 M25988/4-029	MS9386-029 MS9068-029 AS3582-029	M83412/1-029	
-030	MS28775-030[i] M83461/1-030	MS29513-030	MS9021-030 AS3578-030		M83485/1-030	M25988/1-030 M25988/2-030 M25988/3-030 M25988/4-030	MS9386-030 MS9068-030 AS3582-030	M83412/1-030	
-031	MS28775-031[i] M83461/1-031	MS29513-031	MS9021-031 AS3578-031		M83485/1-031	M25988/1-031 M25988/2-031 M25988/3-031 M25988/4-031	MS9386-031 MS9068-031 AS3582-031	M83412/1-031	
-032	MS28775-032[i] M83461/1-032	MS29513-032	MS9021-032 AS3578-032		M83485/1-032	M25988/1-032 M25988/2-032 M25988/3-032 M25988/4-032	MS9386-032 MS9068-032 AS3582-032	M83412/1-032	
-033	MS28775-033[i] M83461/1-033	MS29513-033	MS9021-033 AS3578-033		M83485/1-033	M25988/1-033 M25988/2-033 M25988/3-033 M25988/4-033	MS9386-033 MS9068-033 AS3582-033	M83412/1-033	
-034	MS28775-034[i] M83461/1-034	MS29513-034	MS9021-034 AS3578-034		M83485/1-034	M25988/1-034 M25988/2-034 M25988/3-034 M25988/4-034	MS9386-034 MS9068-034 AS3582-034	M83412/1-034	
-035	MS28775-035[i] M83461/1-035	MS29513-035	MS9021-035 AS3578-035		M83485/1-035	M25988/1-035 M25988/2-035 M25988/3-035 M25988/4-035	MS9386-035 MS9068-035 AS3582-035	M83412/1-035	
-036	MS28775-036[i] M83461/1-036	MS29513-036	MS9021-036 AS3578-036		M83485/1-036	M25988/1-036 M25988/2-036 M25988/3-036 M25988/4-036	MS9386-036 MS9068-036 AS3582-036	M83412/1-036	
-037	MS28775-037[i] M83461/1-037	MS29513-037	MS9021-037 AS3578-037		M83485/1-037	M25988/1-037 M25988/2-037 M25988/3-037 M25988/4-037	MS9386-037 MS9068-037 AS3582-037	M83412/1-037	
-038	MS28775-038[i] M83461/1-038	MS29513-038	MS9021-038 AS3578-038		M83485/1-038	M25988/1-038 M25988/2-038 M25988/3-038 M25988/4-038	MS9386-038 MS9068-038 AS3582-038	M83412/1-038	
-039	MS28775-039[i] M83461/1-039	MS29513-039	MS9021-039 AS3578-039		M83485/1-039	M25988/1-039 M25988/2-039 M25988/3-039 M25988/4-039	MS9386-039 MS9068-039 AS3582-039	M83412/1-039	
-040	MS28775-040[i] M83461/1-040	MS29513-040	MS9021-040 AS3578-040		M83485/1-040	M25988/1-040 M25988/2-040 M25988/3-040 M25988/4-040	MS9386-040 MS9068-040 AS3582-040	M83412/1-040	
-041	MS28775-041[i] M83461/1-041	MS29513-041	MS9021-041 AS3578-041		M83485/1-041	M25988/1-041 M25988/2-041 M25988/3-041 M25988/4-041	MS9386-041 MS9068-041 AS3582-041	M83412/1-041	
-042	MS28775-042[i] M83461/1-042	MS29513-042	MS9021-042 AS3578-042		M83485/1-042	M25988/1-042 M25988/2-042 M25988/3-042 M25988/4-042	MS9386-042 MS9068-042 AS3582-042	M83412/1-042	
-043	MS28775-043[i] M83461/1-043	MS29513-043	MS9021-043 AS3578-043		M83485/1-043	M25988/1-043 M25988/2-043 M25988/3-043 M25988/4-043	MS9386-043 MS9068-043 AS3582-043	M83412/1-043	

AS568 dash	Nitrile, hydraulic	Nitrile, fuel	Nitrile, AMS7271	Synthetic lubricant, MIL-R-7362	FKM, low temperature	Fluorosilicone	Silicone	EPDM, hydrazine	Legacy callouts
-044	MS28775-044[i] M83461/1-044	MS29513-044	MS9021-044 AS3578-044		M83485/1-044	M25988/1-044 M25988/2-044 M25988/3-044 M25988/4-044	MS9386-044 MS9068-044 AS3582-044	M83412/1-044	
-045	MS28775-045[i] M83461/1-045	MS29513-045	MS9021-045 AS3578-045		M83485/1-045	M25988/1-045 M25988/2-045 M25988/3-045 M25988/4-045	MS9386-045 MS9068-045 AS3582-045	M83412/1-045	
-046	MS28775-046[i] M83461/1-046	MS29513-046	MS9021-046 AS3578-046		M83485/1-046	M25988/1-046 M25988/2-046 M25988/3-046 M25988/4-046	MS9386-046	M83412/1-046	
-047	MS28775-047[i] M83461/1-047	MS29513-047	MS9021-047 AS3578-047		M83485/1-047	M25988/1-047 M25988/2-047 M25988/3-047 M25988/4-047	MS9386-047	M83412/1-047	
-048	MS28775-048[i] M83461/1-048	MS29513-048	MS9021-048 AS3578-048		M83485/1-048	M25988/1-048 M25988/2-048 M25988/3-048 M25988/4-048	MS9386-048	M83412/1-048	
-049	MS28775-049[i] M83461/1-049	MS29513-049	MS9021-049 AS3578-049		M83485/1-049	M25988/1-049 M25988/2-049 M25988/3-049 M25988/4-049	MS9386-049	M83412/1-049	
-050	MS28775-050[i] M83461/1-050	MS29513-050	MS9021-050 AS3578-050		M83485/1-050	M25988/1-050 M25988/2-050 M25988/3-050 M25988/4-050	MS9386-050	M83412/1-050	
1xx series									
-102	MS28775-102[i] M83461/1-102				M83485/1-102	M25988/1-102 M25988/2-102 M25988/3-102 M25988/4-102	MS9386-102	M83412/1-102	
-103	MS28775-103[i] M83461/1-103				M83485/1-103	M25988/1-103 M25988/2-103 M25988/3-103 M25988/4-103	MS9386-103	M83412/1-103	
-104	MS28775-104[i] M83461/1-104				M83485/1-104	M25988/1-104 M25988/2-104 M25988/3-104 M25988/4-104	MS9386-104	M83412/1-104	
-105	MS28775-105[i] M83461/1-105				M83485/1-105	M25988/1-105 M25988/2-105 M25988/3-105 M25988/4-105	MS9386-105	M83412/1-105	
-106	MS28775-106[i] M83461/1-106		MS9021-106 AS3578-106		M83485/1-106	M25988/1-106 M25988/2-106 M25988/3-106 M25988/4-106	MS9386-106	M83412/1-106	
-107	MS28775-107[i] M83461/1-107		MS9021-107 AS3578-107		M83485/1-107	M25988/1-107 M25988/2-107 M25988/3-107 M25988/4-107	MS9386-107	M83412/1-107	
-108	MS28775-108[i] M83461/1-108		MS9021-108 AS3578-108		M83485/1-108	M25988/1-108 M25988/2-108 M25988/3-108 M25988/4-108	MS9386-108	M83412/1-108	
-109	MS28775-109[i] M83461/1-109		MS9021-109 AS3578-109		M83485/1-109	M25988/1-109 M25988/2-109 M25988/3-109 M25988/4-109	MS9386-109	M83412/1-109	
-110	MS28775-110 M83461/1-110	MS29513-110	MS9021-110 AS3578-110	MS29561-110	M83485/1-110	M25988/1-110 M25988/2-110 M25988/3-110 M25988/4-110	MS9386-110 MS9068-110 AS3582-110	M83412/1-110	
-111	MS28775-111 M83461/1-111	MS29513-111	MS9021-111 AS3578-111	MS29561-111	M83485/1-111	M25988/1-111 M25988/2-111 M25988/3-111 M25988/4-111	MS9386-111 MS9068-111 AS3582-111	M83412/1-111	
-112	MS28775-112 M83461/1-112	MS29513-112	MS9021-112 AS3578-112	MS29561-112	M83485/1-112	M25988/1-112 M25988/2-112 M25988/3-112 M25988/4-112	MS9386-112 MS9068-112 AS3582-112	M83412/1-112	

AS568 dash	Nitrile, hydraulic	Nitrile, fuel	Nitrile, AMS7271	Synthetic lubricant, MIL-R-7362	FKM, low temperature	Fluorosilicone	Silicone	EPDM, hydrazine	Legacy callouts
-113	MS28775-113 M83461/1-113	MS29513-113	MS9021-113 AS3578-113	MS29561-113	M83485/1-113	M25988/1-113 M25988/2-113 M25988/3-113 M25988/4-113	MS9386-113 MS9068-113 AS3582-113	M83412/1-113	
-114	MS28775-114 M83461/1-114	MS29513-114	MS9021-114 AS3578-114	MS29561-114	M83485/1-114	M25988/1-114 M25988/2-114 M25988/3-114 M25988/4-114	MS9386-114 MS9068-114 AS3582-114	M83412/1-114	
-115	MS28775-115 M83461/1-115	MS29513-115	MS9021-115 AS3578-115	MS29561-115	M83485/1-115	M25988/1-115 M25988/2-115 M25988/3-115 M25988/4-115	MS9386-115 MS9068-115 AS3582-115	M83412/1-115	
-116	MS28775-116 M83461/1-116	MS29513-116	MS9021-116 AS3578-116	MS29561-116	M83485/1-116	M25988/1-116 M25988/2-116 M25988/3-116 M25988/4-116	MS9386-116 MS9068-116 AS3582-116	M83412/1-116	
-117	MS28775-117[S] M83461/1-117	MS29513-117	MS9021-117 AS3578-117	MS29561-117	M83485/1-117	M25988/1-117 M25988/2-117 M25988/3-117 M25988/4-117	MS9386-117 MS9068-117 AS3582-117	M83412/1-117	
-118	MS28775-118[S] M83461/1-118	MS29513-118	MS9021-118 AS3578-118	MS29561-118	M83485/1-118	M25988/1-118 M25988/2-118 M25988/3-118 M25988/4-118	MS9386-118 MS9068-118 AS3582-118	M83412/1-118	
-119	MS28775-119[S] M83461/1-119	MS29513-119	MS9021-119 AS3578-119	MS29561-119	M83485/1-119	M25988/1-119 M25988/2-119 M25988/3-119 M25988/4-119	MS9386-119 MS9068-119 AS3582-119	M83412/1-119	
-120	MS28775-120[S] M83461/1-120	MS29513-120	MS9021-120 AS3578-120	MS29561-120	M83485/1-120	M25988/1-120 M25988/2-120 M25988/3-120 M25988/4-120	MS9386-120 MS9068-120 AS3582-120	M83412/1-120	
-121	MS28775-121[S] M83461/1-121	MS29513-121	MS9021-121 AS3578-121	MS29561-121	M83485/1-121	M25988/1-121 M25988/2-121 M25988/3-121 M25988/4-121	MS9386-121 MS9068-121 AS3582-121	M83412/1-121	
-122	MS28775-122[S] M83461/1-122	MS29513-122	MS9021-122 AS3578-122	MS29561-122	M83485/1-122	M25988/1-122 M25988/2-122 M25988/3-122 M25988/4-122	MS9386-122 MS9068-122 AS3582-122	M83412/1-122	
-123	MS28775-123[S] M83461/1-123	MS29513-123	MS9021-123 AS3578-123	MS29561-123	M83485/1-123	M25988/1-123 M25988/2-123 M25988/3-123 M25988/4-123	MS9386-123 MS9068-123 AS3582-123	M83412/1-123	
-124	MS28775-124[S] M83461/1-124	MS29513-124	MS9021-124 AS3578-124	MS29561-124	M83485/1-124	M25988/1-124 M25988/2-124 M25988/3-124 M25988/4-124	MS9386-124 MS9068-124 AS3582-124	M83412/1-124	
-125	MS28775-125[S] M83461/1-125	MS29513-125	MS9021-125 AS3578-125	MS29561-125	M83485/1-125	M25988/1-125 M25988/2-125 M25988/3-125 M25988/4-125	MS9386-125 MS9068-125 AS3582-125	M83412/1-125	
-126	MS28775-126[S] M83461/1-126	MS29513-126	MS9021-126 AS3578-126	MS29561-126	M83485/1-126	M25988/1-126 M25988/2-126 M25988/3-126 M25988/4-126	MS9386-126 MS9068-126 AS3582-126	M83412/1-126	
-127	MS28775-127[S] M83461/1-127	MS29513-127	MS9021-127 AS3578-127	MS29561-127	M83485/1-127	M25988/1-127 M25988/2-127 M25988/3-127 M25988/4-127	MS9386-127 MS9068-127 AS3582-127	M83412/1-127	
-128	MS28775-128[S] M83461/1-128	MS29513-128	MS9021-128 AS3578-128	MS29561-128	M83485/1-128	M25988/1-128 M25988/2-128 M25988/3-128 M25988/4-128	MS9386-128 MS9068-128 AS3582-128	M83412/1-128	
-129	MS28775-129[S] M83461/1-129	MS29513-129	MS9021-129 AS3578-129	MS29561-129	M83485/1-129	M25988/1-129 M25988/2-129 M25988/3-129 M25988/4-129	MS9386-129 MS9068-129 AS3582-129	M83412/1-129	
-130	MS28775-130[S] M83461/1-130	MS29513-130	MS9021-130 AS3578-130	MS29561-130	M83485/1-130	M25988/1-130 M25988/2-130 M25988/3-130 M25988/4-130	MS9386-130 MS9068-130 AS3582-130	M83412/1-130	

AS568 dash	Nitrile, hydraulic	Nitrile, fuel	Nitrile, AMS7271	Synthetic lubricant, MIL-R-7362	FKM, low temperature	Fluorosilicone	Silicone	EPDM, hydrazine	Legacy callouts
-131	MS28775-131[S] M83461/1-131	MS29513-131	MS9021-131 AS3578-131	MS29561-131	M83485/1-131	M25988/1-131 M25988/2-131 M25988/3-131 M25988/4-131	MS9386-131 MS9068-131 AS3582-131	M83412/1-131	
-132	MS28775-132[S] M83461/1-132	MS29513-132	MS9021-132 AS3578-132	MS29561-132	M83485/1-132	M25988/1-132 M25988/2-132 M25988/3-132 M25988/4-132	MS9386-132 MS9068-132 AS3582-132	M83412/1-132	
-133	MS28775-133[S] M83461/1-133	MS29513-133	MS9021-133 AS3578-133	MS29561-133	M83485/1-133	M25988/1-133 M25988/2-133 M25988/3-133 M25988/4-133	MS9386-133 MS9068-133 AS3582-133	M83412/1-133	
-134	MS28775-134[S] M83461/1-134	MS29513-134	MS9021-134 AS3578-134	MS29561-134	M83485/1-134	M25988/1-134 M25988/2-134 M25988/3-134 M25988/4-134	MS9386-134 MS9068-134 AS3582-134	M83412/1-134	
-135	MS28775-135[S] M83461/1-135	MS29513-135	MS9021-135 AS3578-135	MS29561-135	M83485/1-135	M25988/1-135 M25988/2-135 M25988/3-135 M25988/4-135	MS9386-135 MS9068-135 AS3582-135	M83412/1-135	
-136	MS28775-136[S] M83461/1-136	MS29513-136	MS9021-136 AS3578-136	MS29561-136	M83485/1-136	M25988/1-136 M25988/2-136 M25988/3-136 M25988/4-136	MS9386-136 MS9068-136 AS3582-136	M83412/1-136	
-137	MS28775-137[S] M83461/1-137	MS29513-137	MS9021-137 AS3578-137	MS29561-137	M83485/1-137	M25988/1-137 M25988/2-137 M25988/3-137 M25988/4-137	MS9386-137 MS9068-137 AS3582-137	M83412/1-137	
-138	MS28775-138[S] M83461/1-138	MS29513-138	MS9021-138 AS3578-138	MS29561-138	M83485/1-138	M25988/1-138 M25988/2-138 M25988/3-138 M25988/4-138	MS9386-138 MS9068-138 AS3582-138	M83412/1-138	
-139	MS28775-139[S] M83461/1-139	MS29513-139	MS9021-139 AS3578-139	MS29561-139	M83485/1-139	M25988/1-139 M25988/2-139 M25988/3-139 M25988/4-139	MS9386-139 MS9068-139 AS3582-139	M83412/1-139	
-140	MS28775-140[S] M83461/1-140	MS29513-140	MS9021-140 AS3578-140	MS29561-140	M83485/1-140	M25988/1-140 M25988/2-140 M25988/3-140 M25988/4-140	MS9386-140 MS9068-140 AS3582-140	M83412/1-140	
-141	MS28775-141[S] M83461/1-141	MS29513-141	MS9021-141 AS3578-141	MS29561-141	M83485/1-141	M25988/1-141 M25988/2-141 M25988/3-141 M25988/4-141	MS9386-141 MS9068-141 AS3582-141	M83412/1-141	
-142	MS28775-142[S] M83461/1-142	MS29513-142	MS9021-142 AS3578-142	MS29561-142	M83485/1-142	M25988/1-142 M25988/2-142 M25988/3-142 M25988/4-142	MS9386-142 MS9068-142 AS3582-142	M83412/1-142	
-143	MS28775-143[S] M83461/1-143	MS29513-143	MS9021-143 AS3578-143	MS29561-143	M83485/1-143	M25988/1-143 M25988/2-143 M25988/3-143 M25988/4-143	MS9386-143 MS9068-143 AS3582-143	M83412/1-143	
-144	MS28775-144[S] M83461/1-144	MS29513-144	MS9021-144 AS3578-144	MS29561-144	M83485/1-144	M25988/1-144 M25988/2-144 M25988/3-144 M25988/4-144	MS9386-144 MS9068-144 AS3582-144	M83412/1-144	
-145	MS28775-145[S] M83461/1-145	MS29513-145	MS9021-145 AS3578-145	MS29561-145	M83485/1-145	M25988/1-145 M25988/2-145 M25988/3-145 M25988/4-145	MS9386-145 MS9068-145 AS3582-145	M83412/1-145	
-146	MS28775-146[S] M83461/1-146	MS29513-146	MS9021-146 AS3578-146	MS29561-146	M83485/1-146	M25988/1-146 M25988/2-146 M25988/3-146 M25988/4-146	MS9386-146 MS9068-146 AS3582-146	M83412/1-146	
-147	MS28775-147[S] M83461/1-147	MS29513-147	MS9021-147 AS3578-147	MS29561-147	M83485/1-147	M25988/1-147 M25988/2-147 M25988/3-147 M25988/4-147	MS9386-147 MS9068-147 AS3582-147	M83412/1-147	
-148	MS28775-148[S] M83461/1-148	MS29513-148	MS9021-148 AS3578-148	MS29561-148	M83485/1-148	M25988/1-148 M25988/2-148 M25988/3-148 M25988/4-148	MS9386-148 MS9068-148 AS3582-148	M83412/1-148	

AS568 dash	Nitrile, hydraulic	Nitrile, fuel	Nitrile, AMS7271	Synthetic lubricant, MIL-R-7362	FKM, low temperature	Fluorosilicone	Silicone	EPDM, hydrazine	Legacy callouts
-149	MS28775-149[s] M83461/1-149	MS29513-149	MS9021-149 AS3578-149	MS29561-149	M83485/1-149	M25988/1-149 M25988/2-149 M25988/3-149 M25988/4-149	MS9386-149 MS9068-149 AS3582-149	M83412/1-149	
-150	MS28775-150[i] M83461/1-150	MS29513-150	MS9021-150 AS3578-150		M83485/1-150	M25988/1-150 M25988/2-150 M25988/3-150 M25988/4-150	MS9386-150 MS9068-150 AS3582-150	M83412/1-150	
-151	MS28775-151[i] M83461/1-151	MS29513-151	MS9021-151 AS3578-151		M83485/1-151	M25988/1-151 M25988/2-151 M25988/3-151 M25988/4-151	MS9386-151 MS9068-151 AS3582-151	M83412/1-151	
-152	MS28775-152[i] M83461/1-152	MS29513-152	MS9021-152 AS3578-152		M83485/1-152	M25988/1-152 M25988/2-152 M25988/3-152 M25988/4-152	MS9386-152 MS9068-152 AS3582-152	M83412/1-152	
-153	MS28775-153[i] M83461/1-153	MS29513-153	MS9021-153 AS3578-153		M83485/1-153	M25988/1-153 M25988/2-153 M25988/3-153 M25988/4-153	MS9386-153 MS9068-153 AS3582-153	M83412/1-153	
-154	MS28775-154[i] M83461/1-154	MS29513-154	MS9021-154 AS3578-154		M83485/1-154	M25988/1-154 M25988/2-154 M25988/3-154 M25988/4-154	MS9386-154 MS9068-154 AS3582-154	M83412/1-154	
-155	MS28775-155[i] M83461/1-155	MS29513-155	MS9021-155 AS3578-155		M83485/1-155	M25988/1-155 M25988/2-155 M25988/3-155 M25988/4-155	MS9386-155 MS9068-155 AS3582-155	M83412/1-155	
-156	MS28775-156[i] M83461/1-156	MS29513-156	MS9021-156 AS3578-156		M83485/1-156	M25988/1-156 M25988/2-156 M25988/3-156 M25988/4-156	MS9386-156 MS9068-156 AS3582-156	M83412/1-156	
-157	MS28775-157[i] M83461/1-157	MS29513-157	MS9021-157 AS3578-157		M83485/1-157	M25988/1-157 M25988/2-157 M25988/3-157 M25988/4-157	MS9386-157 MS9068-157 AS3582-157	M83412/1-157	
-158	MS28775-158[i] M83461/1-158	MS29513-158	MS9021-158 AS3578-158		M83485/1-158	M25988/1-158 M25988/2-158 M25988/3-158 M25988/4-158	MS9386-158 MS9068-158 AS3582-158	M83412/1-158	
-159	MS28775-159[i] M83461/1-159	MS29513-159	MS9021-159 AS3578-159		M83485/1-159	M25988/1-159 M25988/2-159 M25988/3-159 M25988/4-159	MS9386-159 MS9068-159 AS3582-159	M83412/1-159	
-160	MS28775-160[i] M83461/1-160	MS29513-160	MS9021-160 AS3578-160		M83485/1-160	M25988/1-160 M25988/2-160 M25988/3-160 M25988/4-160	MS9386-160 MS9068-160 AS3582-160	M83412/1-160	
-161	MS28775-161[i] M83461/1-161	MS29513-161	MS9021-161 AS3578-161		M83485/1-161	M25988/1-161 M25988/2-161 M25988/3-161 M25988/4-161	MS9386-161 MS9068-161 AS3582-161	M83412/1-161	
-162	MS28775-162[i] M83461/1-162	MS29513-162	MS9021-162 AS3578-162		M83485/1-162	M25988/1-162 M25988/2-162 M25988/3-162 M25988/4-162	MS9386-162 MS9068-162 AS3582-162	M83412/1-162	
-163	MS28775-163[i] M83461/1-163	MS29513-163	MS9021-163 AS3578-163		M83485/1-163	M25988/1-163 M25988/2-163 M25988/3-163 M25988/4-163	MS9386-163 MS9068-163 AS3582-163	M83412/1-163	
-164	MS28775-164[i] M83461/1-164	MS29513-164	MS9021-164 AS3578-164		M83485/1-164	M25988/1-164 M25988/2-164 M25988/3-164 M25988/4-164	MS9386-164	M83412/1-164	
-165	MS28775-165[i] M83461/1-165	MS29513-165	MS9021-165 AS3578-165		M83485/1-165	M25988/1-165 M25988/2-165 M25988/3-165 M25988/4-165	MS9386-165	M83412/1-165	
-166	MS28775-166[i] M83461/1-166	MS29513-166	MS9021-166 AS3578-166		M83485/1-166	M25988/1-166 M25988/2-166 M25988/3-166 M25988/4-166	MS9386-166	M83412/1-166	

AS568 dash	Nitrile, hydraulic	Nitrile, fuel	Nitrile, AMS7271	Synthetic lubricant, MIL-R-7362	FKM, low temperature	Fluorosilicone	Silicone	EPDM, hydrazine	Legacy callouts
-167	MS28775-167[i] M83461/1-167	MS29513-167	MS9021-167 AS3578-167		M83485/1-167	M25988/1-167 M25988/2-167 M25988/3-167 M25988/4-167	MS9386-167	M83412/1-167	
-168	MS28775-168[i] M83461/1-168	MS29513-168	MS9021-168 AS3578-168		M83485/1-168	M25988/1-168 M25988/2-168 M25988/3-168 M25988/4-168	MS9386-168	M83412/1-168	
-169	MS28775-169[i] M83461/1-169	MS29513-169	MS9021-169 AS3578-169		M83485/1-169	M25988/1-169 M25988/2-169 M25988/3-169 M25988/4-169	MS9386-169	M83412/1-169	
-170	MS28775-170[i] M83461/1-170	MS29513-170	MS9021-170 AS3578-170		M83485/1-170	M25988/1-170 M25988/2-170 M25988/3-170 M25988/4-170	MS9386-170	M83412/1-170	
-171	MS28775-171[i] M83461/1-171	MS29513-171	MS9021-171 AS3578-171		M83485/1-171	M25988/1-171 M25988/2-171 M25988/3-171 M25988/4-171	MS9386-171	M83412/1-171	
-172	MS28775-172[i] M83461/1-172	MS29513-172	MS9021-172 AS3578-172		M83485/1-172	M25988/1-172 M25988/2-172 M25988/3-172 M25988/4-172	MS9386-172	M83412/1-172	
-173	MS28775-173[i] M83461/1-173	MS29513-173	MS9021-173 AS3578-173		M83485/1-173	M25988/1-173 M25988/2-173 M25988/3-173 M25988/4-173	MS9386-173	M83412/1-173	
-174	MS28775-174[i] M83461/1-174	MS29513-174	MS9021-174 AS3578-174		M83485/1-174	M25988/1-174 M25988/2-174 M25988/3-174 M25988/4-174	MS9386-174	M83412/1-174	
-175	MS28775-175[i] M83461/1-175	MS29513-175	MS9021-175 AS3578-175		M83485/1-175	M25988/1-175 M25988/2-175 M25988/3-175 M25988/4-175	MS9386-175	M83412/1-175	
-176	MS28775-176[i] M83461/1-176	MS29513-176	MS9021-176 AS3578-176		M83485/1-176	M25988/1-176 M25988/2-176 M25988/3-176 M25988/4-176	MS9386-176	M83412/1-176	
-177	MS28775-177[i] M83461/1-177	MS29513-177	MS9021-177 AS3578-177		M83485/1-177	M25988/1-177 M25988/2-177 M25988/3-177 M25988/4-177	MS9386-177	M83412/1-177	
-178	MS28775-178[i] M83461/1-178	MS29513-178	MS9021-178 AS3578-178		M83485/1-178	M25988/1-178 M25988/2-178 M25988/3-178 M25988/4-178	MS9386-178	M83412/1-178	
2xx series									
-201	MS28775-201[i] M83461/1-201				M83485/1-201	M25988/1-201 M25988/2-201 M25988/3-201 M25988/4-201	MS9386-201	M83412/1-201	
-202	MS28775-202[i] M83461/1-202				M83485/1-202	M25988/1-202 M25988/2-202 M25988/3-202 M25988/4-202	MS9386-202	M83412/1-202	
-203	MS28775-203[i] M83461/1-203				M83485/1-203	M25988/1-203 M25988/2-203 M25988/3-203 M25988/4-203	MS9386-203	M83412/1-203	
-204	MS28775-204[i] M83461/1-204				M83485/1-204	M25988/1-204 M25988/2-204 M25988/3-204 M25988/4-204	MS9386-204	M83412/1-204	
-205	MS28775-205[i] M83461/1-205				M83485/1-205	M25988/1-205 M25988/2-205 M25988/3-205 M25988/4-205	MS9386-205	M83412/1-205	
-206	MS28775-206[i] M83461/1-206				M83485/1-206	M25988/1-206 M25988/2-206 M25988/3-206 M25988/4-206	MS9386-206	M83412/1-206	

AS568 dash	Nitrile, hydraulic	Nitrile, fuel	Nitrile, AMS7271	Synthetic lubricant, MIL-R-7362	FKM, low temperature	Fluorosilicone	Silicone	EPDM, hydrazine	Legacy callouts
-207	MS28775-207[i] M83461/1-207				M83485/1-207	M25988/1-207 M25988/2-207 M25988/3-207 M25988/4-207	MS9386-207	M83412/1-207	
-208	MS28775-208[i] M83461/1-208				M83485/1-208	M25988/1-208 M25988/2-208 M25988/3-208 M25988/4-208	MS9386-208	M83412/1-208	
-209	MS28775-209[i] M83461/1-209				M83485/1-209	M25988/1-209 M25988/2-209 M25988/3-209 M25988/4-209	MS9386-209	M83412/1-209	
-210	MS28775-210 M83461/1-210	MS29513-210	MS9021-210 AS3578-210	MS29561-210	M83485/1-210	M25988/1-210 M25988/2-210 M25988/3-210 M25988/4-210	MS9386-210 MS9068-210 AS3582-210	M83412/1-210	
-211	MS28775-211 M83461/1-211	MS29513-211	MS9021-211 AS3578-211	MS29561-211	M83485/1-211	M25988/1-211 M25988/2-211 M25988/3-211 M25988/4-211	MS9386-211 MS9068-211 AS3582-211	M83412/1-211	
-212	MS28775-212 M83461/1-212	MS29513-212	MS9021-212 AS3578-212	MS29561-212	M83485/1-212	M25988/1-212 M25988/2-212 M25988/3-212 M25988/4-212	MS9386-212 MS9068-212 AS3582-212	M83412/1-212	
-213	MS28775-213 M83461/1-213	MS29513-213	MS9021-213 AS3578-213	MS29561-213	M83485/1-213	M25988/1-213 M25988/2-213 M25988/3-213 M25988/4-213	MS9386-213 MS9068-213 AS3582-213	M83412/1-213	
-214	MS28775-214 M83461/1-214	MS29513-214	MS9021-214 AS3578-214	MS29561-214	M83485/1-214	M25988/1-214 M25988/2-214 M25988/3-214 M25988/4-214	MS9386-214 MS9068-214 AS3582-214	M83412/1-214	
-215	MS28775-215 M83461/1-215	MS29513-215	MS9021-215 AS3578-215	MS29561-215	M83485/1-215	M25988/1-215 M25988/2-215 M25988/3-215 M25988/4-215	MS9386-215 MS9068-215 AS3582-215	M83412/1-215	
-216	MS28775-216 M83461/1-216	MS29513-216	MS9021-216 AS3578-216	MS29561-216	M83485/1-216	M25988/1-216 M25988/2-216 M25988/3-216 M25988/4-216	MS9386-216 MS9068-216 AS3582-216	M83412/1-216	
-217	MS28775-217 M83461/1-217	MS29513-217	MS9021-217 AS3578-217	MS29561-217	M83485/1-217	M25988/1-217 M25988/2-217 M25988/3-217 M25988/4-217	MS9386-217 MS9068-217 AS3582-217	M83412/1-217	
-218	MS28775-218 M83461/1-218	MS29513-218	MS9021-218 AS3578-218	MS29561-218	M83485/1-218	M25988/1-218 M25988/2-218 M25988/3-218 M25988/4-218	MS9386-218 MS9068-218 AS3582-218	M83412/1-218	
-219	MS28775-219 M83461/1-219	MS29513-219	MS9021-219 AS3578-219	MS29561-219	M83485/1-219	M25988/1-219 M25988/2-219 M25988/3-219 M25988/4-219	MS9386-219 MS9068-219 AS3582-219	M83412/1-219	
-220	MS28775-220 M83461/1-220	MS29513-220	MS9021-220 AS3578-220	MS29561-220	M83485/1-220	M25988/1-220 M25988/2-220 M25988/3-220 M25988/4-220	MS9386-220 MS9068-220 AS3582-220	M83412/1-220	
-221	MS28775-221 M83461/1-221	MS29513-221	MS9021-221 AS3578-221	MS29561-221	M83485/1-221	M25988/1-221 M25988/2-221 M25988/3-221 M25988/4-221	MS9386-221 MS9068-221 AS3582-221	M83412/1-221	
-222	MS28775-222 M83461/1-222	MS29513-222	MS9021-222 AS3578-222	MS29561-222	M83485/1-222	M25988/1-222 M25988/2-222 M25988/3-222 M25988/4-222	MS9386-222 MS9068-222 AS3582-222	M83412/1-222	
-223	MS28775-223[s] M83461/1-223	MS29513-223	MS9021-223 AS3578-223	MS29561-223	M83485/1-223	M25988/1-223 M25988/2-223 M25988/3-223 M25988/4-223	MS9386-223 MS9068-223 AS3582-223	M83412/1-223	AN6230-1
-224	MS28775-224[s] M83461/1-224	MS29513-224	MS9021-224 AS3578-224	MS29561-224	M83485/1-224	M25988/1-224 M25988/2-224 M25988/3-224 M25988/4-224	MS9386-224 MS9068-224 AS3582-224	M83412/1-224	AN6230-2
-225	MS28775-225[s] M83461/1-225	MS29513-225	MS9021-225 AS3578-225	MS29561-225	M83485/1-225	M25988/1-225 M25988/2-225 M25988/3-225 M25988/4-225	MS9386-225 MS9068-225 AS3582-225	M83412/1-225	AN6230-3

AS568 dash	Nitrile, hydraulic	Nitrile, fuel	Nitrile, AMS7271	Synthetic lubricant, MIL-R-7362	FKM, low temperature	Fluorosilicone	Silicone	EPDM, hydrazine	Legacy callouts
-226	MS28775-226[S] M83461/1-226	MS29513-226	MS9021-226 AS3578-226	MS29561-226	M83485/1-226	M25988/1-226 M25988/2-226 M25988/3-226 M25988/4-226	MS9386-226 MS9068-226 AS3582-226	M83412/1-226	AN6230-4
-227	MS28775-227[S] M83461/1-227	MS29513-227	MS9021-227 AS3578-227	MS29561-227	M83485/1-227	M25988/1-227 M25988/2-227 M25988/3-227 M25988/4-227	MS9386-227 MS9068-227 AS3582-227	M83412/1-227	AN6230-5
-228	MS28775-228[S] M83461/1-228	MS29513-228	MS9021-228 AS3578-228	MS29561-228	M83485/1-228	M25988/1-228 M25988/2-228 M25988/3-228 M25988/4-228	MS9386-228 MS9068-228 AS3582-228	M83412/1-228	AN6230-6
-229	MS28775-229[S] M83461/1-229	MS29513-229	MS9021-229 AS3578-229	MS29561-229	M83485/1-229	M25988/1-229 M25988/2-229 M25988/3-229 M25988/4-229	MS9386-229 MS9068-229 AS3582-229	M83412/1-229	AN6230-7
-230	MS28775-230[S] M83461/1-230	MS29513-230	MS9021-230 AS3578-230	MS29561-230	M83485/1-230	M25988/1-230 M25988/2-230 M25988/3-230 M25988/4-230	MS9386-230 MS9068-230 AS3582-230	M83412/1-230	AN6230-8
-231	MS28775-231[S] M83461/1-231	MS29513-231	MS9021-231 AS3578-231	MS29561-231	M83485/1-231	M25988/1-231 M25988/2-231 M25988/3-231 M25988/4-231	MS9386-231 MS9068-231 AS3582-231	M83412/1-231	AN6230-9
-232	MS28775-232[S] M83461/1-232	MS29513-232	MS9021-232 AS3578-232	MS29561-232	M83485/1-232	M25988/1-232 M25988/2-232 M25988/3-232 M25988/4-232	MS9386-232 MS9068-232 AS3582-232	M83412/1-232	AN6230-10
-233	MS28775-233[S] M83461/1-233	MS29513-233	MS9021-233 AS3578-233	MS29561-233	M83485/1-233	M25988/1-233 M25988/2-233 M25988/3-233 M25988/4-233	MS9386-233 MS9068-233 AS3582-233	M83412/1-233	AN6230-11
-234	MS28775-234[S] M83461/1-234	MS29513-234	MS9021-234 AS3578-234	MS29561-234	M83485/1-234	M25988/1-234 M25988/2-234 M25988/3-234 M25988/4-234	MS9386-234 MS9068-234 AS3582-234	M83412/1-234	AN6230-12
-235	MS28775-235[S] M83461/1-235	MS29513-235	MS9021-235 AS3578-235	MS29561-235	M83485/1-235	M25988/1-235 M25988/2-235 M25988/3-235 M25988/4-235	MS9386-235 MS9068-235 AS3582-235	M83412/1-235	AN6230-13
-236	MS28775-236[S] M83461/1-236	MS29513-236	MS9021-236 AS3578-236	MS29561-236	M83485/1-236	M25988/1-236 M25988/2-236 M25988/3-236 M25988/4-236	MS9386-236 MS9068-236 AS3582-236	M83412/1-236	AN6230-14
-237	MS28775-237[S] M83461/1-237	MS29513-237	MS9021-237 AS3578-237	MS29561-237	M83485/1-237	M25988/1-237 M25988/2-237 M25988/3-237 M25988/4-237	MS9386-237 MS9068-237 AS3582-237	M83412/1-237	AN6230-15
-238	MS28775-238[S] M83461/1-238	MS29513-238	MS9021-238 AS3578-238	MS29561-238	M83485/1-238	M25988/1-238 M25988/2-238 M25988/3-238 M25988/4-238	MS9386-238 MS9068-238 AS3582-238	M83412/1-238	AN6230-16
-239	MS28775-239[S] M83461/1-239	MS29513-239	MS9021-239 AS3578-239	MS29561-239	M83485/1-239	M25988/1-239 M25988/2-239 M25988/3-239 M25988/4-239	MS9386-239 MS9068-239 AS3582-239	M83412/1-239	AN6230-17
-240	MS28775-240[S] M83461/1-240	MS29513-240	MS9021-240 AS3578-240	MS29561-240	M83485/1-240	M25988/1-240 M25988/2-240 M25988/3-240 M25988/4-240	MS9386-240 MS9068-240 AS3582-240	M83412/1-240	AN6230-18
-241	MS28775-241[S] M83461/1-241	MS29513-241	MS9021-241 AS3578-241	MS29561-241	M83485/1-241	M25988/1-241 M25988/2-241 M25988/3-241 M25988/4-241	MS9386-241 MS9068-241 AS3582-241	M83412/1-241	AN6230-19
-242	MS28775-242[S] M83461/1-242	MS29513-242	MS9021-242 AS3578-242	MS29561-242	M83485/1-242	M25988/1-242 M25988/2-242 M25988/3-242 M25988/4-242	MS9386-242 MS9068-242 AS3582-242	M83412/1-242	AN6230-20
-243	MS28775-243[S] M83461/1-243	MS29513-243	MS9021-243 AS3578-243	MS29561-243	M83485/1-243	M25988/1-243 M25988/2-243 M25988/3-243 M25988/4-243	MS9386-243 MS9068-243 AS3582-243	M83412/1-243	AN6230-21

AS568 dash	Nitrile, hydraulic	Nitrile, fuel	Nitrile, AMS7271	Synthetic lubricant, MIL-R-7362	FKM, low temperature	Fluorosilicone	Silicone	EPDM, hydrazine	Legacy callouts
-244	MS28775-244[s] M83461/1-244	MS29513-244	MS9021-244 AS3578-244	MS29561-244	M83485/1-244	M25988/1-244 M25988/2-244 M25988/3-244 M25988/4-244	MS9386-244 MS9068-244 AS3582-244	M83412/1-244	AN6230-22
-245	MS28775-245[s] M83461/1-245	MS29513-245	MS9021-245 AS3578-245	MS29561-245	M83485/1-245	M25988/1-245 M25988/2-245 M25988/3-245 M25988/4-245	MS9386-245 MS9068-245 AS3582-245	M83412/1-245	AN6230-23
-246	MS28775-246[s] M83461/1-246	MS29513-246	MS9021-246 AS3578-246	MS29561-246	M83485/1-246	M25988/1-246 M25988/2-246 M25988/3-246 M25988/4-246	MS9386-246 MS9068-246 AS3582-246	M83412/1-246	AN6230-24
-247	MS28775-247[s] M83461/1-247	MS29513-247	MS9021-247 AS3578-247	MS29561-247	M83485/1-247	M25988/1-247 M25988/2-247 M25988/3-247 M25988/4-247	MS9386-247 MS9068-247 AS3582-247	M83412/1-247	AN6230-25
-248	MS28775-248[i] M83461/1-248	MS29513-248	MS9021-248 AS3578-248	MS29561-248	M83485/1-248	M25988/1-248 M25988/2-248 M25988/3-248 M25988/4-248	MS9386-248 MS9068-248 AS3582-248	M83412/1-248	AN6230-26
-249	MS28775-249[i] M83461/1-249	MS29513-249	MS9021-249 AS3578-249	MS29561-249	M83485/1-249	M25988/1-249 M25988/2-249 M25988/3-249 M25988/4-249	MS9386-249 MS9068-249 AS3582-249	M83412/1-249	AN6230-27
-250	MS28775-250[i] M83461/1-250	MS29513-250	MS9021-250 AS3578-250	MS29561-250	M83485/1-250	M25988/1-250 M25988/2-250 M25988/3-250 M25988/4-250	MS9386-250 MS9068-250 AS3582-250	M83412/1-250	AN6230-28
-251	MS28775-251[i] M83461/1-251	MS29513-251	MS9021-251 AS3578-251	MS29561-251	M83485/1-251	M25988/1-251 M25988/2-251 M25988/3-251 M25988/4-251	MS9386-251 MS9068-251 AS3582-251	M83412/1-251	AN6230-29
-252	MS28775-252[i] M83461/1-252	MS29513-252	MS9021-252 AS3578-252	MS29561-252	M83485/1-252	M25988/1-252 M25988/2-252 M25988/3-252 M25988/4-252	MS9386-252 MS9068-252 AS3582-252	M83412/1-252	AN6230-30
-253	MS28775-253[i] M83461/1-253	MS29513-253	MS9021-253 AS3578-253	MS29561-253	M83485/1-253	M25988/1-253 M25988/2-253 M25988/3-253 M25988/4-253	MS9386-253 MS9068-253 AS3582-253	M83412/1-253	AN6230-31
-254	MS28775-254[i] M83461/1-254	MS29513-254	MS9021-254 AS3578-254	MS29561-254	M83485/1-254	M25988/1-254 M25988/2-254 M25988/3-254 M25988/4-254	MS9386-254 MS9068-254 AS3582-254	M83412/1-254	AN6230-32
-255	MS28775-255[i] M83461/1-255	MS29513-255	MS9021-255 AS3578-255	MS29561-255	M83485/1-255	M25988/1-255 M25988/2-255 M25988/3-255 M25988/4-255	MS9386-255 MS9068-255 AS3582-255	M83412/1-255	AN6230-33
-256	MS28775-256[i] M83461/1-256	MS29513-256	MS9021-256 AS3578-256	MS29561-256	M83485/1-256	M25988/1-256 M25988/2-256 M25988/3-256 M25988/4-256	MS9386-256 MS9068-256 AS3582-256	M83412/1-256	AN6230-34
-257	MS28775-257[i] M83461/1-257	MS29513-257	MS9021-257 AS3578-257	MS29561-257	M83485/1-257	M25988/1-257 M25988/2-257 M25988/3-257 M25988/4-257	MS9386-257 MS9068-257 AS3582-257	M83412/1-257	AN6230-35
-258	MS28775-258[i] M83461/1-258	MS29513-258	MS9021-258 AS3578-258	MS29561-258	M83485/1-258	M25988/1-258 M25988/2-258 M25988/3-258 M25988/4-258	MS9386-258 MS9068-258 AS3582-258	M83412/1-258	AN6230-36
-259	MS28775-259[i] M83461/1-259	MS29513-259	MS9021-259 AS3578-259	MS29561-259	M83485/1-259	M25988/1-259 M25988/2-259 M25988/3-259 M25988/4-259	MS9386-259 MS9068-259 AS3582-259	M83412/1-259	AN6230-37
-260	MS28775-260[i] M83461/1-260	MS29513-260	MS9021-260 AS3578-260	MS29561-260	M83485/1-260	M25988/1-260 M25988/2-260 M25988/3-260 M25988/4-260	MS9386-260 MS9068-260 AS3582-260	M83412/1-260	AN6230-38
-261	MS28775-261[i] M83461/1-261	MS29513-261	MS9021-261 AS3578-261	MS29561-261	M83485/1-261	M25988/1-261 M25988/2-261 M25988/3-261 M25988/4-261	MS9386-261 MS9068-261 AS3582-261	M83412/1-261	AN6230-39

AS568 dash	Nitrile, hydraulic	Nitrile, fuel	Nitrile, AMS7271	Synthetic lubricant, MIL-R-7362	FKM, low temperature	Fluorosilicone	Silicone	EPDM, hydrazine	Legacy callouts
-262	MS28775-262[i] M83461/1-262	MS29513-262	MS9021-262 AS3578-262	MS29561-262	M83485/1-262	M25988/1-262 M25988/2-262 M25988/3-262 M25988/4-262	MS9386-262 MS9068-262 AS3582-262	M83412/1-262	AN6230-40
-263	MS28775-263[i] M83461/1-263	MS29513-263	MS9021-263 AS3578-263	MS29561-263	M83485/1-263	M25988/1-263 M25988/2-263 M25988/3-263 M25988/4-263	MS9386-263 MS9068-263 AS3582-263	M83412/1-263	AN6230-41
-264	MS28775-264[i] M83461/1-264	MS29513-264	MS9021-264 AS3578-264	MS29561-264	M83485/1-264	M25988/1-264 M25988/2-264 M25988/3-264 M25988/4-264	MS9386-264 MS9068-264 AS3582-264	M83412/1-264	AN6230-42
-265	MS28775-265[i] M83461/1-265	MS29513-265	MS9021-265 AS3578-265	MS29561-265	M83485/1-265	M25988/1-265 M25988/2-265 M25988/3-265 M25988/4-265	MS9386-265 MS9068-265 AS3582-265	M83412/1-265	AN6230-43
-266	MS28775-266[i] M83461/1-266	MS29513-266	MS9021-266 AS3578-266	MS29561-266	M83485/1-266	M25988/1-266 M25988/2-266 M25988/3-266 M25988/4-266	MS9386-266 MS9068-266 AS3582-266	M83412/1-266	AN6230-44
-267	MS28775-267[i] M83461/1-267	MS29513-267	MS9021-267 AS3578-267	MS29561-267	M83485/1-267	M25988/1-267 M25988/2-267 M25988/3-267 M25988/4-267	MS9386-267 MS9068-267 AS3582-267	M83412/1-267	AN6230-45
-268	MS28775-268[i] M83461/1-268	MS29513-268	MS9021-268 AS3578-268	MS29561-268	M83485/1-268	M25988/1-268 M25988/2-268 M25988/3-268 M25988/4-268	MS9386-268 MS9068-268 AS3582-268	M83412/1-268	AN6230-46
-269	MS28775-269[i] M83461/1-269	MS29513-269	MS9021-269 AS3578-269	MS29561-269	M83485/1-269	M25988/1-269 M25988/2-269 M25988/3-269 M25988/4-269	MS9386-269 MS9068-269 AS3582-269	M83412/1-269	AN6230-47
-270	MS28775-270[i] M83461/1-270	MS29513-270	MS9021-270 AS3578-270	MS29561-270	M83485/1-270	M25988/1-270 M25988/2-270 M25988/3-270 M25988/4-270	MS9386-270 MS9068-270 AS3582-270	M83412/1-270	AN6230-48
-271	MS28775-271[i] M83461/1-271	MS29513-271	MS9021-271 AS3578-271	MS29561-271	M83485/1-271	M25988/1-271 M25988/2-271 M25988/3-271 M25988/4-271	MS9386-271 MS9068-271 AS3582-271	M83412/1-271	AN6230-49
-272	MS28775-272[i] M83461/1-272	MS29513-272	MS9021-272 AS3578-272	MS29561-272	M83485/1-272	M25988/1-272 M25988/2-272 M25988/3-272 M25988/4-272	MS9386-272 MS9068-272 AS3582-272	M83412/1-272	AN6230-50
-273	MS28775-273[i] M83461/1-273	MS29513-273	MS9021-273 AS3578-273	MS29561-273	M83485/1-273	M25988/1-273 M25988/2-273 M25988/3-273 M25988/4-273	MS9386-273 MS9068-273 AS3582-273	M83412/1-273	AN6230-51
-274	MS28775-274[i] M83461/1-274	MS29513-274	MS9021-274 AS3578-274	MS29561-274	M83485/1-274	M25988/1-274 M25988/2-274 M25988/3-274 M25988/4-274	MS9386-274 MS9068-274 AS3582-274	M83412/1-274	AN6230-52
-275	MS28775-275[i] M83461/1-275	MS29513-275	MS9021-275 AS3578-275		M83485/1-275	M25988/1-275 M25988/2-275 M25988/3-275 M25988/4-275	MS9386-275 MS9068-275 AS3582-275	M83412/1-275	
-276	MS28775-276[i] M83461/1-276	MS29513-276	MS9021-276 AS3578-276		M83485/1-276	M25988/1-276 M25988/2-276 M25988/3-276 M25988/4-276	MS9386-276 MS9068-276 AS3582-276	M83412/1-276	
-277	MS28775-277[i] M83461/1-277	MS29513-277	MS9021-277 AS3578-277		M83485/1-277	M25988/1-277 M25988/2-277 M25988/3-277 M25988/4-277	MS9386-277 MS9068-277 AS3582-277	M83412/1-277	
-278	MS28775-278[i] M83461/1-278	MS29513-278	MS9021-278 AS3578-278		M83485/1-278	M25988/1-278 M25988/2-278 M25988/3-278 M25988/4-278	MS9386-278 MS9068-278 AS3582-278	M83412/1-278	
-279	MS28775-279[i] M83461/1-279	MS29513-279	MS9021-279 AS3578-279		M83485/1-279	M25988/1-279 M25988/2-279 M25988/3-279 M25988/4-279	MS9386-279 MS9068-279 AS3582-279	M83412/1-279	

AS568 dash	Nitrile, hydraulic	Nitrile, fuel	Nitrile, AMS7271	Synthetic lubricant, MIL-R-7362	FKM, low temperature	Fluorosilicone	Silicone	EPDM, hydrazine	Legacy callouts
-280	MS28775-280[i] M83461/1-280	MS29513-280	MS9021-280 AS3578-280		M83485/1-280	M25988/1-280 M25988/2-280 M25988/3-280 M25988/4-280	MS9386-280 MS9068-280 AS3582-280	M83412/1-280	
-281	MS28775-281[i] M83461/1-281	MS29513-281	MS9021-281 AS3578-281		M83485/1-281	M25988/1-281 M25988/2-281 M25988/3-281 M25988/4-281	MS9386-281 MS9068-281 AS3582-281	M83412/1-281	
-282	MS28775-282[i] M83461/1-282	MS29513-282	MS9021-282 AS3578-282		M83485/1-282	M25988/1-282 M25988/2-282 M25988/3-282 M25988/4-282	MS9386-282	M83412/1-282	
-283	MS28775-283[i] M83461/1-283	MS29513-283	MS9021-283 AS3578-283		M83485/1-283	M25988/1-283 M25988/2-283 M25988/3-283 M25988/4-283	MS9386-283	M83412/1-283	
-284	MS28775-284[i] M83461/1-284	MS29513-284	MS9021-284 AS3578-284		M83485/1-284	M25988/1-284 M25988/2-284 M25988/3-284 M25988/4-284	MS9386-284	M83412/1-284	
3xx series									
-309	MS28775-309[i] M83461/1-309				M83485/1-309	M25988/1-309 M25988/2-309 M25988/3-309 M25988/4-309	MS9386-309	M83412/1-309	
-310	MS28775-310[i] M83461/1-310				M83485/1-310	M25988/1-310 M25988/2-310 M25988/3-310 M25988/4-310	MS9386-310	M83412/1-310	
-311	MS28775-311[i] M83461/1-311				M83485/1-311	M25988/1-311 M25988/2-311 M25988/3-311 M25988/4-311	MS9386-311	M83412/1-311	
-312	MS28775-312[i] M83461/1-312				M83485/1-312	M25988/1-312 M25988/2-312 M25988/3-312 M25988/4-312	MS9386-312	M83412/1-312	
-313	MS28775-313[i] M83461/1-313				M83485/1-313	M25988/1-313 M25988/2-313 M25988/3-313 M25988/4-313	MS9386-313	M83412/1-313	
-314	MS28775-314[i] M83461/1-314				M83485/1-314	M25988/1-314 M25988/2-314 M25988/3-314 M25988/4-314	MS9386-314	M83412/1-314	
-315	MS28775-315[i] M83461/1-315				M83485/1-315	M25988/1-315 M25988/2-315 M25988/3-315 M25988/4-315	MS9386-315	M83412/1-315	
-316	MS28775-316[i] M83461/1-316				M83485/1-316	M25988/1-316 M25988/2-316 M25988/3-316 M25988/4-316	MS9386-316	M83412/1-316	
-317	MS28775-317[i] M83461/1-317				M83485/1-317	M25988/1-317 M25988/2-317 M25988/3-317 M25988/4-317	MS9386-317	M83412/1-317	
-318	MS28775-318[i] M83461/1-318				M83485/1-318	M25988/1-318 M25988/2-318 M25988/3-318 M25988/4-318	MS9386-318	M83412/1-318	
-319	MS28775-319[i] M83461/1-319				M83485/1-319	M25988/1-319 M25988/2-319 M25988/3-319 M25988/4-319	MS9386-319	M83412/1-319	
-320	MS28775-320[i] M83461/1-320				M83485/1-320	M25988/1-320 M25988/2-320 M25988/3-320 M25988/4-320	MS9386-320	M83412/1-320	
-321	MS28775-321[i] M83461/1-321				M83485/1-321	M25988/1-321 M25988/2-321 M25988/3-321 M25988/4-321	MS9386-321	M83412/1-321	

AS568 dash	Nitrile, hydraulic	Nitrile, fuel	Nitrile, AMS7271	Synthetic lubricant, MIL-R-7362	FKM, low temperature	Fluorosilicone	Silicone	EPDM, hydrazine	Legacy callouts
-322	MS28775-322[i] M83461/1-322				M83485/1-322	M25988/1-322 M25988/2-322 M25988/3-322 M25988/4-322	MS9386-322	M83412/1-322	
-323	MS28775-323[i] M83461/1-323				M83485/1-323	M25988/1-323 M25988/2-323 M25988/3-323 M25988/4-323	MS9386-323	M83412/1-323	
-324	MS28775-324[i] M83461/1-324				M83485/1-324	M25988/1-324 M25988/2-324 M25988/3-324 M25988/4-324	MS9386-324	M83412/1-324	
-325	MS28775-325 M83461/1-325	MS29513-325	MS9021-325 AS3578-325	MS29561-325	M83485/1-325	M25988/1-325 M25988/2-325 M25988/3-325 M25988/4-325	MS9386-325 MS9068-325 AS3582-325	M83412/1-325	
-326	MS28775-326 M83461/1-326	MS29513-326	MS9021-326 AS3578-326	MS29561-326	M83485/1-326	M25988/1-326 M25988/2-326 M25988/3-326 M25988/4-326	MS9386-326 MS9068-326 AS3582-326	M83412/1-326	
-327	MS28775-327 M83461/1-327	MS29513-327	MS9021-327 AS3578-327	MS29561-327	M83485/1-327	M25988/1-327 M25988/2-327 M25988/3-327 M25988/4-327	MS9386-327 MS9068-327 AS3582-327	M83412/1-327	
-328	MS28775-328 M83461/1-328	MS29513-328	MS9021-328 AS3578-328	MS29561-328	M83485/1-328	M25988/1-328 M25988/2-328 M25988/3-328 M25988/4-328	MS9386-328 MS9068-328 AS3582-328	M83412/1-328	
-329	MS28775-329 M83461/1-329	MS29513-329	MS9021-329 AS3578-329	MS29561-329	M83485/1-329	M25988/1-329 M25988/2-329 M25988/3-329 M25988/4-329	MS9386-329 MS9068-329 AS3582-329	M83412/1-329	
-330	MS28775-330 M83461/1-330	MS29513-330	MS9021-330 AS3578-330	MS29561-330	M83485/1-330	M25988/1-330 M25988/2-330 M25988/3-330 M25988/4-330	MS9386-330 MS9068-330 AS3582-330	M83412/1-330	
-331	MS28775-331 M83461/1-331	MS29513-331	MS9021-331 AS3578-331	MS29561-331	M83485/1-331	M25988/1-331 M25988/2-331 M25988/3-331 M25988/4-331	MS9386-331 MS9068-331 AS3582-331	M83412/1-331	
-332	MS28775-332 M83461/1-332	MS29513-332	MS9021-332 AS3578-332	MS29561-332	M83485/1-332	M25988/1-332 M25988/2-332 M25988/3-332 M25988/4-332	MS9386-332 MS9068-332 AS3582-332	M83412/1-332	
-333	MS28775-333 M83461/1-333	MS29513-333	MS9021-333 AS3578-333	MS29561-333	M83485/1-333	M25988/1-333 M25988/2-333 M25988/3-333 M25988/4-333	MS9386-333 MS9068-333 AS3582-333	M83412/1-333	
-334	MS28775-334 M83461/1-334	MS29513-334	MS9021-334 AS3578-334	MS29561-334	M83485/1-334	M25988/1-334 M25988/2-334 M25988/3-334 M25988/4-334	MS9386-334 MS9068-334 AS3582-334	M83412/1-334	
-335	MS28775-335 M83461/1-335	MS29513-335	MS9021-335 AS3578-335	MS29561-335	M83485/1-335	M25988/1-335 M25988/2-335 M25988/3-335 M25988/4-335	MS9386-335 MS9068-335 AS3582-335	M83412/1-335	
-336	MS28775-336 M83461/1-336	MS29513-336	MS9021-336 AS3578-336	MS29561-336	M83485/1-336	M25988/1-336 M25988/2-336 M25988/3-336 M25988/4-336	MS9386-336 MS9068-336 AS3582-336	M83412/1-336	
-337	MS28775-337 M83461/1-337	MS29513-337	MS9021-337 AS3578-337	MS29561-337	M83485/1-337	M25988/1-337 M25988/2-337 M25988/3-337 M25988/4-337	MS9386-337 MS9068-337 AS3582-337	M83412/1-337	
-338	MS28775-338 M83461/1-338	MS29513-338	MS9021-338 AS3578-338	MS29561-338	M83485/1-338	M25988/1-338 M25988/2-338 M25988/3-338 M25988/4-338	MS9386-338 MS9068-338 AS3582-338	M83412/1-338	
-339	MS28775-339 M83461/1-339	MS29513-339	MS9021-339 AS3578-339	MS29561-339	M83485/1-339	M25988/1-339 M25988/2-339 M25988/3-339 M25988/4-339	MS9386-339 MS9068-339 AS3582-339	M83412/1-339	
-340	MS28775-340 M83461/1-340	MS29513-340	MS9021-340 AS3578-340	MS29561-340	M83485/1-340	M25988/1-340 M25988/2-340 M25988/3-340 M25988/4-340	MS9386-340 MS9068-340 AS3582-340	M83412/1-340	

AS568 dash	Nitrile, hydraulic	Nitrile, fuel	Nitrile, AMS7271	Synthetic lubricant, MIL-R-7362	FKM, low temperature	Fluorosilicone	Silicone	EPDM, hydrazine	Legacy callouts
-341	MS28775-341 M83461/1-341	MS29513-341	MS9021-341 AS3578-341	MS29561-341	M83485/1-341	M25988/1-341 M25988/2-341 M25988/3-341 M25988/4-341	MS9386-341 MS9068-341 AS3582-341	M83412/1-341	
-342	MS28775-342 M83461/1-342	MS29513-342	MS9021-342 AS3578-342	MS29561-342	M83485/1-342	M25988/1-342 M25988/2-342 M25988/3-342 M25988/4-342	MS9386-342 MS9068-342 AS3582-342	M83412/1-342	
-343	MS28775-343 M83461/1-343	MS29513-343	MS9021-343 AS3578-343	MS29561-343	M83485/1-343	M25988/1-343 M25988/2-343 M25988/3-343 M25988/4-343	MS9386-343 MS9068-343 AS3582-343	M83412/1-343	
-344	MS28775-344 M83461/1-344	MS29513-344	MS9021-344 AS3578-344	MS29561-344	M83485/1-344	M25988/1-344 M25988/2-344 M25988/3-344 M25988/4-344	MS9386-344 MS9068-344 AS3582-344	M83412/1-344	
-345	MS28775-345 M83461/1-345	MS29513-345	MS9021-345 AS3578-345	MS29561-345	M83485/1-345	M25988/1-345 M25988/2-345 M25988/3-345 M25988/4-345	MS9386-345 MS9068-345 AS3582-345	M83412/1-345	
-346	MS28775-346 M83461/1-346	MS29513-346	MS9021-346 AS3578-346	MS29561-346	M83485/1-346	M25988/1-346 M25988/2-346 M25988/3-346 M25988/4-346	MS9386-346 MS9068-346 AS3582-346	M83412/1-346	
-347	MS28775-347 M83461/1-347	MS29513-347	MS9021-347 AS3578-347	MS29561-347	M83485/1-347	M25988/1-347 M25988/2-347 M25988/3-347 M25988/4-347	MS9386-347 MS9068-347 AS3582-347	M83412/1-347	
-348	MS28775-348 M83461/1-348	MS29513-348	MS9021-348 AS3578-348	MS29561-348	M83485/1-348	M25988/1-348 M25988/2-348 M25988/3-348 M25988/4-348	MS9386-348 MS9068-348 AS3582-348	M83412/1-348	
-349	MS28775-349 M83461/1-349	MS29513-349	MS9021-349 AS3578-349	MS29561-349	M83485/1-349	M25988/1-349 M25988/2-349 M25988/3-349 M25988/4-349	MS9386-349 MS9068-349 AS3582-349	M83412/1-349	
-350	MS28775-350[i] M83461/1-350	MS29513-350	MS9021-350 AS3578-350		M83485/1-350	M25988/1-350 M25988/2-350 M25988/3-350 M25988/4-350	MS9386-350	M83412/1-350	
-351	MS28775-351[i] M83461/1-351	MS29513-351	MS9021-351 AS3578-351		M83485/1-351	M25988/1-351 M25988/2-351 M25988/3-351 M25988/4-351	MS9386-351	M83412/1-351	
-352	MS28775-352[i] M83461/1-352	MS29513-352	MS9021-352 AS3578-352		M83485/1-352	M25988/1-352 M25988/2-352 M25988/3-352 M25988/4-352	MS9386-352	M83412/1-352	
-353	MS28775-353[i] M83461/1-353	MS29513-353	MS9021-353 AS3578-353		M83485/1-353	M25988/1-353 M25988/2-353 M25988/3-353 M25988/4-353	MS9386-353	M83412/1-353	
-354	MS28775-354[i] M83461/1-354	MS29513-354	MS9021-354 AS3578-354		M83485/1-354	M25988/1-354 M25988/2-354 M25988/3-354 M25988/4-354	MS9386-354	M83412/1-354	
-355	MS28775-355[i] M83461/1-355	MS29513-355	MS9021-355 AS3578-355		M83485/1-355	M25988/1-355 M25988/2-355 M25988/3-355 M25988/4-355	MS9386-355	M83412/1-355	
-356	MS28775-356[i] M83461/1-356	MS29513-356	MS9021-356 AS3578-356		M83485/1-356	M25988/1-356 M25988/2-356 M25988/3-356 M25988/4-356	MS9386-356	M83412/1-356	
-357	MS28775-357[i] M83461/1-357	MS29513-357	MS9021-357 AS3578-357		M83485/1-357	M25988/1-357 M25988/2-357 M25988/3-357 M25988/4-357	MS9386-357	M83412/1-357	
-358	MS28775-358[i] M83461/1-358	MS29513-358	MS9021-358 AS3578-358		M83485/1-358	M25988/1-358 M25988/2-358 M25988/3-358 M25988/4-358	MS9386-358	M83412/1-358	
-359	MS28775-359[i] M83461/1-359	MS29513-359	MS9021-359 AS3578-359		M83485/1-359	M25988/1-359 M25988/2-359 M25988/3-359 M25988/4-359	MS9386-359	M83412/1-359	

AS568 dash	Nitrile, hydraulic	Nitrile, fuel	Nitrile, AMS7271	Synthetic lubricant, MIL-R-7362	FKM, low temperature	Fluorosilicone	Silicone	EPDM, hydrazine	Legacy callouts
-360	MS28775-360[i] M83461/1-360	MS29513-360	MS9021-360 AS3578-360		M83485/1-360	M25988/1-360 M25988/2-360 M25988/3-360 M25988/4-360	MS9386-360	M83412/1-360	
-361	MS28775-361[i] M83461/1-361	MS29513-361	MS9021-361 AS3578-361		M83485/1-361	M25988/1-361 M25988/2-361 M25988/3-361 M25988/4-361	MS9386-361	M83412/1-361	
-362	MS28775-362[i] M83461/1-362	MS29513-362	MS9021-362 AS3578-362		M83485/1-362	M25988/1-362 M25988/2-362 M25988/3-362 M25988/4-362	MS9386-362	M83412/1-362	
-363	MS28775-363[i] M83461/1-363	MS29513-363	MS9021-363 AS3578-363		M83485/1-363	M25988/1-363 M25988/2-363 M25988/3-363 M25988/4-363	MS9386-363	M83412/1-363	
-364	MS28775-364[i] M83461/1-364	MS29513-364	MS9021-364 AS3578-364		M83485/1-364	M25988/1-364 M25988/2-364 M25988/3-364 M25988/4-364	MS9386-364	M83412/1-364	
-365	MS28775-365[i] M83461/1-365	MS29513-365	MS9021-365 AS3578-365		M83485/1-365	M25988/1-365 M25988/2-365 M25988/3-365 M25988/4-365	MS9386-365	M83412/1-365	
-366	MS28775-366[i] M83461/1-366	MS29513-366	MS9021-366 AS3578-366		M83485/1-366	M25988/1-366 M25988/2-366 M25988/3-366 M25988/4-366	MS9386-366	M83412/1-366	
-367	MS28775-367[i] M83461/1-367	MS29513-367	MS9021-367 AS3578-367		M83485/1-367	M25988/1-367 M25988/2-367 M25988/3-367 M25988/4-367	MS9386-367	M83412/1-367	
-368	MS28775-368[i] M83461/1-368	MS29513-368	MS9021-368 AS3578-368		M83485/1-368	M25988/1-368 M25988/2-368 M25988/3-368 M25988/4-368	MS9386-368	M83412/1-368	
-369	MS28775-369[i] M83461/1-369	MS29513-369	MS9021-369 AS3578-369		M83485/1-369	M25988/1-369 M25988/2-369 M25988/3-369 M25988/4-369	MS9386-369	M83412/1-369	
-370	MS28775-370[i] M83461/1-370	MS29513-370	MS9021-370 AS3578-370		M83485/1-370	M25988/1-370 M25988/2-370 M25988/3-370 M25988/4-370	MS9386-370	M83412/1-370	
-371	MS28775-371[i] M83461/1-371	MS29513-371	MS9021-371 AS3578-371		M83485/1-371	M25988/1-371 M25988/2-371 M25988/3-371 M25988/4-371	MS9386-371	M83412/1-371	
-372	MS28775-372[i] M83461/1-372	MS29513-372	MS9021-372 AS3578-372		M83485/1-372	M25988/1-372 M25988/2-372 M25988/3-372 M25988/4-372	MS9386-372	M83412/1-372	
-373	MS28775-373[i] M83461/1-373	MS29513-373	MS9021-373 AS3578-373		M83485/1-373	M25988/1-373 M25988/2-373 M25988/3-373 M25988/4-373	MS9386-373	M83412/1-373	
-374	MS28775-374[i] M83461/1-374	MS29513-374	MS9021-374 AS3578-374		M83485/1-374	M25988/1-374 M25988/2-374 M25988/3-374 M25988/4-374	MS9386-374	M83412/1-374	
-375	MS28775-375[i] M83461/1-375	MS29513-375	MS9021-375 AS3578-375		M83485/1-375	M25988/1-375 M25988/2-375 M25988/3-375 M25988/4-375	MS9386-375	M83412/1-375	
-376	MS28775-376[i] M83461/1-376	MS29513-376	MS9021-376 AS3578-376		M83485/1-376	M25988/1-376 M25988/2-376 M25988/3-376 M25988/4-376	MS9386-376	M83412/1-376	
-377	MS28775-377[i] M83461/1-377	MS29513-377	MS9021-377 AS3578-377		M83485/1-377	M25988/1-377 M25988/2-377 M25988/3-377 M25988/4-377	MS9386-377	M83412/1-377	

AS568 dash	Nitrile, hydraulic	Nitrile, fuel	Nitrile, AMS7271	Synthetic lubricant, MIL-R-7362	FKM, low temperature	Fluorosilicone	Silicone	EPDM, hydrazine	Legacy callouts
-378	MS28775-378[i] M83461/1-378	MS29513-378	MS9021-378 AS3578-378		M83485/1-378	M25988/1-378 M25988/2-378 M25988/3-378 M25988/4-378	MS9386-378	M83412/1-378	
-379	MS28775-379[i] M83461/1-379	MS29513-379	MS9021-379 AS3578-379		M83485/1-379	M25988/1-379 M25988/2-379 M25988/3-379 M25988/4-379	MS9386-379	M83412/1-379	
-380	MS28775-380[i] M83461/1-380	MS29513-380	MS9021-380 AS3578-380		M83485/1-380	M25988/1-380 M25988/2-380 M25988/3-380 M25988/4-380	MS9386-380	M83412/1-380	
-381	MS28775-381[i] M83461/1-381	MS29513-381	MS9021-381 AS3578-381		M83485/1-381	M25988/1-381 M25988/2-381 M25988/3-381 M25988/4-381	MS9386-381	M83412/1-381	
-382	MS28775-382[i] M83461/1-382	MS29513-382	MS9021-382 AS3578-382		M83485/1-382	M25988/1-382 M25988/2-382 M25988/3-382 M25988/4-382	MS9386-382	M83412/1-382	
-383	MS28775-383[i] M83461/1-383	MS29513-383	MS9021-383 AS3578-383		M83485/1-383	M25988/1-383 M25988/2-383 M25988/3-383 M25988/4-383	MS9386-383	M83412/1-383	
-384	MS28775-384[i] M83461/1-384	MS29513-384	MS9021-384 AS3578-384		M83485/1-384	M25988/1-384 M25988/2-384 M25988/3-384 M25988/4-384	MS9386-384	M83412/1-384	
-385	MS28775-385[i] M83461/1-385	MS29513-385	MS9021-385 AS3578-385		M83485/1-385	M25988/1-385 M25988/2-385 M25988/3-385 M25988/4-385	MS9386-385	M83412/1-385	
-386	MS28775-386[i] M83461/1-386	MS29513-386	MS9021-386 AS3578-386		M83485/1-386	M25988/1-386 M25988/2-386 M25988/3-386 M25988/4-386	MS9386-386	M83412/1-386	
-387	MS28775-387[i] M83461/1-387	MS29513-387	MS9021-387 AS3578-387		M83485/1-387	M25988/1-387 M25988/2-387 M25988/3-387 M25988/4-387	MS9386-387	M83412/1-387	
-388	MS28775-388[i] M83461/1-388	MS29513-388	MS9021-388 AS3578-388		M83485/1-388	M25988/1-388 M25988/2-388 M25988/3-388 M25988/4-388	MS9386-388	M83412/1-388	
-389	MS28775-389[i] M83461/1-389	MS29513-389	MS9021-389 AS3578-389		M83485/1-389	M25988/1-389 M25988/2-389 M25988/3-389 M25988/4-389	MS9386-389	M83412/1-389	
-390	MS28775-390[i] M83461/1-390	MS29513-390	MS9021-390 AS3578-390		M83485/1-390	M25988/1-390 M25988/2-390 M25988/3-390 M25988/4-390	MS9386-390	M83412/1-390	
-391	MS28775-391[i] M83461/1-391	MS29513-391	MS9021-391 AS3578-391		M83485/1-391	M25988/1-391 M25988/2-391 M25988/3-391 M25988/4-391	MS9386-391	M83412/1-391	
-392	MS28775-392[i] M83461/1-392	MS29513-392	MS9021-392 AS3578-392		M83485/1-392	M25988/1-392 M25988/2-392 M25988/3-392 M25988/4-392	MS9386-392	M83412/1-392	
-393	MS28775-393[i] M83461/1-393	MS29513-393	MS9021-393 AS3578-393		M83485/1-393	M25988/1-393 M25988/2-393 M25988/3-393 M25988/4-393	MS9386-393	M83412/1-393	
-394	MS28775-394[i] M83461/1-394	MS29513-394	MS9021-394 AS3578-394		M83485/1-394	M25988/1-394 M25988/2-394 M25988/3-394 M25988/4-394	MS9386-394	M83412/1-394	
-395	MS28775-395[i] M83461/1-395	MS29513-395	MS9021-395 AS3578-395		M83485/1-395	M25988/1-395 M25988/2-395 M25988/3-395 M25988/4-395	MS9386-395	M83412/1-395	
4xx series									

AS568 dash	Nitrile, hydraulic	Nitrile, fuel	Nitrile, AMS7271	Synthetic lubricant, MIL-R-7362	FKM, low temperature	Fluorosilicone	Silicone	EPDM, hydrazine	Legacy callouts
-425	MS28775-425 M83461/1-425	MS29513-425	MS9021-425 AS3578-425	MS29561-425	M83485/1-425	M25988/1-425 M25988/2-425 M25988/3-425 M25988/4-425	MS9386-425 MS9068-425 AS3582-425	M83412/1-425	
-426	MS28775-426 M83461/1-426	MS29513-426	MS9021-426 AS3578-426	MS29561-426	M83485/1-426	M25988/1-426 M25988/2-426 M25988/3-426 M25988/4-426	MS9386-426 MS9068-426 AS3582-426	M83412/1-426	
-427	MS28775-427 M83461/1-427	MS29513-427	MS9021-427 AS3578-427	MS29561-427	M83485/1-427	M25988/1-427 M25988/2-427 M25988/3-427 M25988/4-427	MS9386-427 MS9068-427 AS3582-427	M83412/1-427	
-428	MS28775-428 M83461/1-428	MS29513-428	MS9021-428 AS3578-428	MS29561-428	M83485/1-428	M25988/1-428 M25988/2-428 M25988/3-428 M25988/4-428	MS9386-428 MS9068-428 AS3582-428	M83412/1-428	
-429	MS28775-429 M83461/1-429	MS29513-429	MS9021-429 AS3578-429	MS29561-429	M83485/1-429	M25988/1-429 M25988/2-429 M25988/3-429 M25988/4-429	MS9386-429 MS9068-429 AS3582-429	M83412/1-429	
-430	MS28775-430 M83461/1-430	MS29513-430	MS9021-430 AS3578-430	MS29561-430	M83485/1-430	M25988/1-430 M25988/2-430 M25988/3-430 M25988/4-430	MS9386-430 MS9068-430 AS3582-430	M83412/1-430	
-431	MS28775-431 M83461/1-431	MS29513-431	MS9021-431 AS3578-431	MS29561-431	M83485/1-431	M25988/1-431 M25988/2-431 M25988/3-431 M25988/4-431	MS9386-431 MS9068-431 AS3582-431	M83412/1-431	
-432	MS28775-432 M83461/1-432	MS29513-432	MS9021-432 AS3578-432	MS29561-432	M83485/1-432	M25988/1-432 M25988/2-432 M25988/3-432 M25988/4-432	MS9386-432 MS9068-432 AS3582-432	M83412/1-432	
-433	MS28775-433 M83461/1-433	MS29513-433	MS9021-433 AS3578-433	MS29561-433	M83485/1-433	M25988/1-433 M25988/2-433 M25988/3-433 M25988/4-433	MS9386-433 MS9068-433 AS3582-433	M83412/1-433	
-434	MS28775-434 M83461/1-434	MS29513-434	MS9021-434 AS3578-434	MS29561-434	M83485/1-434	M25988/1-434 M25988/2-434 M25988/3-434 M25988/4-434	MS9386-434 MS9068-434 AS3582-434	M83412/1-434	
-435	MS28775-435 M83461/1-435	MS29513-435	MS9021-435 AS3578-435	MS29561-435	M83485/1-435	M25988/1-435 M25988/2-435 M25988/3-435 M25988/4-435	MS9386-435 MS9068-435 AS3582-435	M83412/1-435	
-436	MS28775-436 M83461/1-436	MS29513-436	MS9021-436 AS3578-436	MS29561-436	M83485/1-436	M25988/1-436 M25988/2-436 M25988/3-436 M25988/4-436	MS9386-436 MS9068-436 AS3582-436	M83412/1-436	
-437	MS28775-437 M83461/1-437	MS29513-437	MS9021-437 AS3578-437	MS29561-437	M83485/1-437	M25988/1-437 M25988/2-437 M25988/3-437 M25988/4-437	MS9386-437 MS9068-437 AS3582-437	M83412/1-437	
-438	MS28775-438 M83461/1-438	MS29513-438	MS9021-438 AS3578-438	MS29561-438	M83485/1-438	M25988/1-438 M25988/2-438 M25988/3-438 M25988/4-438	MS9386-438 MS9068-438 AS3582-438	M83412/1-438	
-439	MS28775-439 M83461/1-439	MS29513-439	MS9021-439 AS3578-439	MS29561-439	M83485/1-439	M25988/1-439 M25988/2-439 M25988/3-439 M25988/4-439	MS9386-439 MS9068-439 AS3582-439	M83412/1-439	
-440	MS28775-440 M83461/1-440	MS29513-440	MS9021-440 AS3578-440	MS29561-440	M83485/1-440	M25988/1-440 M25988/2-440 M25988/3-440 M25988/4-440	MS9386-440 MS9068-440 AS3582-440	M83412/1-440	
-441	MS28775-441 M83461/1-441	MS29513-441	MS9021-441 AS3578-441	MS29561-441	M83485/1-441	M25988/1-441 M25988/2-441 M25988/3-441 M25988/4-441	MS9386-441 MS9068-441 AS3582-441	M83412/1-441	
-442	MS28775-442 M83461/1-442	MS29513-442	MS9021-442 AS3578-442	MS29561-442	M83485/1-442	M25988/1-442 M25988/2-442 M25988/3-442 M25988/4-442	MS9386-442 MS9068-442 AS3582-442	M83412/1-442	
-443	MS28775-443 M83461/1-443	MS29513-443	MS9021-443 AS3578-443	MS29561-443	M83485/1-443	M25988/1-443 M25988/2-443 M25988/3-443 M25988/4-443	MS9386-443 MS9068-443 AS3582-443	M83412/1-443	
-444	MS28775-444 M83461/1-444	MS29513-444	MS9021-444 AS3578-444	MS29561-444	M83485/1-444	M25988/1-444 M25988/2-444 M25988/3-444 M25988/4-444	MS9386-444 MS9068-444 AS3582-444	M83412/1-444	

AS568 dash	Nitrile, hydraulic	Nitrile, fuel	Nitrile, AMS7271	Synthetic lubricant, MIL-R-7362	FKM, low temperature	Fluorosilicone	Silicone	EPDM, hydrazine	Legacy callouts
-445	MS28775-445 M83461/1-445	MS29513-445	MS9021-445 AS3578-445	MS29561-445	M83485/1-445	M25988/1-445 M25988/2-445 M25988/3-445 M25988/4-445	MS9386-445 MS9068-445 AS3582-445	M83412/1-445	
-446	MS28775-446 M83461/1-446	MS29513-446	MS9021-446 AS3578-446	MS29561-446	M83485/1-446	M25988/1-446 M25988/2-446 M25988/3-446 M25988/4-446	MS9386-446 MS9068-446 AS3582-446	M83412/1-446	
-447	MS28775-447 M83461/1-447	MS29513-447	MS9021-447 AS3578-447	MS29561-447	M83485/1-447	M25988/1-447 M25988/2-447 M25988/3-447 M25988/4-447	MS9386-447 MS9068-447 AS3582-447	M83412/1-447	
-448	MS28775-448 M83461/1-448	MS29513-448	MS9021-448 AS3578-448	MS29561-448	M83485/1-448	M25988/1-448 M25988/2-448 M25988/3-448 M25988/4-448	MS9386-448 MS9068-448 AS3582-448	M83412/1-448	
-449	MS28775-449 M83461/1-449	MS29513-449	MS9021-449 AS3578-449	MS29561-449	M83485/1-449	M25988/1-449 M25988/2-449 M25988/3-449 M25988/4-449	MS9386-449 MS9068-449 AS3582-449	M83412/1-449	
-450	MS28775-450 M83461/1-450	MS29513-450	MS9021-450 AS3578-450	MS29561-450	M83485/1-450	M25988/1-450 M25988/2-450 M25988/3-450 M25988/4-450	MS9386-450 MS9068-450 AS3582-450	M83412/1-450	
-451	MS28775-451 M83461/1-451	MS29513-451	MS9021-451 AS3578-451	MS29561-451	M83485/1-451	M25988/1-451 M25988/2-451 M25988/3-451 M25988/4-451	MS9386-451 MS9068-451 AS3582-451	M83412/1-451	
-452	MS28775-452 M83461/1-452	MS29513-452	MS9021-452 AS3578-452	MS29561-452	M83485/1-452	M25988/1-452 M25988/2-452 M25988/3-452 M25988/4-452	MS9386-452 MS9068-452 AS3582-452	M83412/1-452	
-453	MS28775-453 M83461/1-453	MS29513-453	MS9021-453 AS3578-453	MS29561-453	M83485/1-453	M25988/1-453 M25988/2-453 M25988/3-453 M25988/4-453	MS9386-453 MS9068-453 AS3582-453	M83412/1-453	
-454	MS28775-454 M83461/1-454	MS29513-454	MS9021-454 AS3578-454	MS29561-454	M83485/1-454	M25988/1-454 M25988/2-454 M25988/3-454 M25988/4-454	MS9386-454 MS9068-454 AS3582-454	M83412/1-454	
-455	MS28775-455 M83461/1-455	MS29513-455	MS9021-455 AS3578-455	MS29561-455	M83485/1-455	M25988/1-455 M25988/2-455 M25988/3-455 M25988/4-455	MS9386-455 MS9068-455 AS3582-455	M83412/1-455	
-456	MS28775-456 M83461/1-456	MS29513-456	MS9021-456 AS3578-456	MS29561-456	M83485/1-456	M25988/1-456 M25988/2-456 M25988/3-456 M25988/4-456	MS9386-456 MS9068-456 AS3582-456	M83412/1-456	
-457	MS28775-457 M83461/1-457	MS29513-457	MS9021-457 AS3578-457	MS29561-457	M83485/1-457	M25988/1-457 M25988/2-457 M25988/3-457 M25988/4-457	MS9386-457 MS9068-457 AS3582-457	M83412/1-457	
-458	MS28775-458 M83461/1-458	MS29513-458	MS9021-458 AS3578-458	MS29561-458	M83485/1-458	M25988/1-458 M25988/2-458 M25988/3-458 M25988/4-458	MS9386-458 MS9068-458 AS3582-458	M83412/1-458	
-459	MS28775-459 M83461/1-459	MS29513-459	MS9021-459 AS3578-459	MS29561-459	M83485/1-459	M25988/1-459 M25988/2-459 M25988/3-459 M25988/4-459	MS9386-459 MS9068-459 AS3582-459	M83412/1-459	
-460	MS28775-460 M83461/1-460	MS29513-460	MS9021-460 AS3578-460	MS29561-460	M83485/1-460	M25988/1-460 M25988/2-460 M25988/3-460 M25988/4-460	MS9386-460 MS9068-460 AS3582-460	M83412/1-460	
-461	MS28775-461[i] M83461/1-461	MS29513-461	MS9021-461 AS3578-461		M83485/1-461	M25988/1-461 M25988/2-461 M25988/3-461 M25988/4-461	MS9386-461	M83412/1-461	
-462	MS28775-462[i] M83461/1-462	MS29513-462	MS9021-462 AS3578-462		M83485/1-462	M25988/1-462 M25988/2-462 M25988/3-462 M25988/4-462	MS9386-462	M83412/1-462	
-463	MS28775-463[i] M83461/1-463	MS29513-463	MS9021-463 AS3578-463		M83485/1-463	M25988/1-463 M25988/2-463 M25988/3-463 M25988/4-463	MS9386-463	M83412/1-463	

AS568 dash	Nitrile, hydraulic	Nitrile, fuel	Nitrile, AMS7271	Synthetic lubricant, MIL-R-7362	FKM, low temperature	Fluorosilicone	Silicone	EPDM, hydrazine	Legacy callouts
-464	MS28775-464[i] M83461/1-464	MS29513-464	MS9021-464 AS3578-464		M83485/1-464	M25988/1-464 M25988/2-464 M25988/3-464 M25988/4-464	MS9386-464	M83412/1-464	
-465	MS28775-465[i] M83461/1-465	MS29513-465	MS9021-465 AS3578-465		M83485/1-465	M25988/1-465 M25988/2-465 M25988/3-465 M25988/4-465	MS9386-465	M83412/1-465	
-466	MS28775-466[i] M83461/1-466	MS29513-466	MS9021-466 AS3578-466		M83485/1-466	M25988/1-466 M25988/2-466 M25988/3-466 M25988/4-466	MS9386-466	M83412/1-466	
-467	MS28775-467[i] M83461/1-467	MS29513-467	MS9021-467 AS3578-467		M83485/1-467	M25988/1-467 M25988/2-467 M25988/3-467 M25988/4-467	MS9386-467	M83412/1-467	
-468	MS28775-468[i] M83461/1-468	MS29513-468	MS9021-468 AS3578-468		M83485/1-468	M25988/1-468 M25988/2-468 M25988/3-468 M25988/4-468	MS9386-468	M83412/1-468	
-469	MS28775-469[i] M83461/1-469	MS29513-469	MS9021-469 AS3578-469		M83485/1-469	M25988/1-469 M25988/2-469 M25988/3-469 M25988/4-469	MS9386-469	M83412/1-469	
-470	MS28775-470[i] M83461/1-470	MS29513-470	MS9021-470 AS3578-470		M83485/1-470	M25988/1-470 M25988/2-470 M25988/3-470 M25988/4-470	MS9386-470	M83412/1-470	
-471	MS28775-471[i] M83461/1-471	MS29513-471	MS9021-471 AS3578-471		M83485/1-471	M25988/1-471 M25988/2-471 M25988/3-471 M25988/4-471	MS9386-471	M83412/1-471	
-472	MS28775-472[i] M83461/1-472	MS29513-472	MS9021-472 AS3578-472		M83485/1-472	M25988/1-472 M25988/2-472 M25988/3-472 M25988/4-472	MS9386-472	M83412/1-472	
-473	MS28775-473[i] M83461/1-473	MS29513-473	MS9021-473 AS3578-473		M83485/1-473	M25988/1-473 M25988/2-473 M25988/3-473 M25988/4-473	MS9386-473	M83412/1-473	
-474	MS28775-474[i] M83461/1-474	MS29513-474	MS9021-474 AS3578-474		M83485/1-474	M25988/1-474 M25988/2-474 M25988/3-474 M25988/4-474	MS9386-474	M83412/1-474	
-475	MS28775-475[i] M83461/1-475	MS29513-475	MS9021-475 AS3578-475		M83485/1-475	M25988/1-475 M25988/2-475 M25988/3-475 M25988/4-475	MS9386-475	M83412/1-475	
9xx series									
-901	M83461/2-901	MS29512-01			M83485/1-901	M25988/1-901		M83412/1-901	MS9385-01
-902	M83461/2-902 MS28778-2	MS29512-02			M83485/1-902	M25988/1-902		M83412/1-902	MS9385-02
-903	M83461/2-903 MS28778-3	MS29512-03			M83485/1-903	M25988/1-903		M83412/1-903	MS9385-03
-904	M83461/2-904 MS28778-4	MS29512-04			M83485/1-904	M25988/1-904		M83412/1-904	MS9385-04
-905	M83461/2-905 MS28778-5	MS29512-05			M83485/1-905	M25988/1-905		M83412/1-905	MS9385-05
-906	M83461/2-906 MS28778-6	MS29512-06			M83485/1-906	M25988/1-906		M83412/1-906	MS9385-06
-907	M83461/2-907	MS29512-07			M83485/1-907	M25988/1-907		M83412/1-907	MS9385-07

AS568 dash	Nitrile, hydraulic	Nitrile, fuel	Nitrile, AMS7271	Synthetic lubricant, MIL-R-7362	FKM, low temperature	Fluorosilicone	Silicone	EPDM, hydrazine	Legacy callouts
-908	M83461/2-908 MS28778-8	MS29512-08			M83485/1-908	M25988/1-908		M83412/1-908	MS9385-08
-909	M83461/2-909	MS29512-09			M83485/1-909	M25988/1-909		M83412/1-909	MS9385-09
-910	M83461/2-910 MS28778-10	MS29512-10			M83485/1-910	M25988/1-910		M83412/1-910	MS9385-10
-911	M83461/2-911	MS29512-11			M83485/1-911	M25988/1-911		M83412/1-911	MS9385-11
-912	M83461/2-912 MS28778-12	MS29512-12			M83485/1-912	M25988/1-912		M83412/1-912	MS9385-12
-913	M83461/2-913	MS29512-13			M83485/1-913	M25988/1-913		M83412/1-913	MS9385-13
-914	M83461/2-914 MS28778-14	MS29512-14			M83485/1-914	M25988/1-914		M83412/1-914	MS9385-14
-916	M83461/2-916 MS28778-16	MS29512-16			M83485/1-916	M25988/1-916		M83412/1-916	MS9385-16
-918	M83461/2-918	MS29512-18			M83485/1-918	M25988/1-918		M83412/1-918	MS9385-18
-920	M83461/2-920 MS28778-20	MS29512-20			M83485/1-920	M25988/1-920		M83412/1-920	MS9385-20
-924	M83461/2-924 MS28778-24	MS29512-24			M83485/1-924	M25988/1-924		M83412/1-924	MS9385-24
-928	M83461/2-928 MS28778-28	MS29512-28			M83485/1-928	M25988/1-928		M83412/1-928	MS9385-28
-932	M83461/2-932 MS28778-32	MS29512-32			M83485/1-932	M25988/1-932		M83412/1-932	MS9385-32

Part numbers not listed, and why

M83248/1, M83248/2, AS3209 and AS3208. No official size table was found for these families. DLA ASSIST serves the cancellation notices for MIL-R-83248/1A but not the 1975 sheet itself, and the M83248/2 sheet refers to /1 for its dimensions. The 2008 notice sends future purchases to SAE-AS3209 and SAE-AS3208 by range, without a part-number cross-reference, and the SAE texts were not read. Only manufacturers' cross-references tie these dashes to AS568 sizes, and those are not reproduced.

The M83248 family page and the AS3209 page cover these callouts.

AS-prefixed forms of the MS drawings (SAE-AS28775, AS29513, AS29512, AS9386, AS9385, AS28778, AS29561). The DoD notices keep the MS part number, and the SAE texts were not read, so this table prints the MS form.

AS3582 outside the MS9068 notice. The notice cross-references 229 dashes; AS3582 is listed at those only.

NAS1611 and NAS1612, AN6227 and MS9388. No record read for this table ties their dashes to AS568 sizes: AN6227 has no cross-reference chart and renumbers its sizes, and DLA ASSIST serves no image of the MS9388 drawing.

Back-up rings (MS27595, MS28774) carry O-ring dash numbers but are not O-rings, and are not in this table.

Where the records point different ways

M83485/1. DoD canceled MIL-R-83485/1 on 2002-10-23 and referred future acquisitions to SAE-AMS-R-83485/1. SAE canceled that document in June 2015, while the DoD adoption record of SAE-AMS-R-83485/1 still reads Active (DLA ASSIST ident 212228, read 2026-09-29).

MS9385. DoD canceled MS9385 on 1999-12-29 for SAE-AS9385. SAE canceled AS9385 on 2020-10-26, and DoD withdrew its adoption on 2024-02-22, naming SAE-AS9386. MS9385 is listed here as a legacy callout.

M83248/1. Notice 5 of 2008-07-24 refers future purchases to SAE-AS3209 and SAE-AS3208. SAE issued AS83248/1 in December 2014, but no record names it as the sheet's successor, so neither is linked to M83248/1 here.

Sources

Sources: DLA ASSIST drawings, slash sheets and cancellation notices, read 2026-09-27 to 2026-09-29; each family's record is named in its row above. Part numbers and dash numbers are restated as facts; no standard's dimension table, tolerance figure or text is reproduced, and no manufacturer's cross-reference is used. Your drawing governs; check the record before you order.