

Mini Quick Connect Couplings

single shut-off **Series ESM**

- One-hand quick connect couplings with reduced dimensions made of brass MS 58 plain/ nickel-plated
- Suitable for low vacuum at low couple force compared to all other compatible products
- On request, couplings also available with coloured anodised aluminium sleeves
- Can be used in multiple applications in pneumatics, measure, control and regulation technology

Materials

- Body, sleeve, valve body, valve: Brass MS 58 plain/ nickel-plated
- Springs, retaining ring: Stainless steel 1.4310
- Balls: Stainless steel 1.3541
- Seals: NBR - additional charge for EPDM (0.40 Euro) and FKM seals (0.94 Euro)
- Plug: Brass MS 58 plain/ nickel-plated or steel zinc-plated and yellow passivated (free of chrome VI)

Max. Working Pressure	Temperature	DN	Thread	Flow Rate	Operation	Type of valve	Media	Area	
PN 35 bar	-20°C – +100°C	5	ISO 228 / DIN 13	510 l/min	One-hand	Single shut-off	Air / Others	Europe	10

Couplings with male thread

Thread connection	L	SW	D	L1	Weight	Type No. n. plated	Type No. plain
G 1/8 m	37	14	16	7	27	ESMN 18 A	ESM 18 A
G 1/4 m	38	17	16	9	36	ESMN 14 A	ESM 14 A
G 3/8 m	38	19	16	9	43	ESMN 38 A	ESM 38 A
M 10x1 m	37	14	16	7	35	ESMN 101 A	ESM 101 A
M 12x1.5 m	39	17	16	10	37	ESMN 121 A	ESM 121 A
M 14x1.5 m	39	17	16	10	37	ESMN 141 A	ESM 141 A

Male thread sealing with PVC sealing ring type HPD (© page 212)

Couplings with female thread

Thread connection	L	SW	D	L1	Weight	Type No. n. plated	Type No. plain
G 1/8 f	38	14	16	9	32	ESMN 18 I	ESM 18 I
G 1/4 f	38	17	16	9	38	ESMN 14 I	ESM 14 I
G 3/8 f	39.5	19	16	10.5	39	ESMN 38 I	ESM 38 I
M 10x1 f	38	14	16	9	36	ESMN 101 I	ESM 101 I
M 12x1.5 f	38	17	16	9	39	ESMN 121 I	ESM 121 I
M 14x1.5 f	38	17	16	9	37	ESMN 141 I	ESM 141 I

Couplings with hose barb

Hose connection	L	D	L1	Weight	Type No. n. plated	Type No. plain
Hose i.D. 4	46	16	17	27	ESMN 4 T	ESM 4 T
Hose i.D. 5	46	16	17	27	ESMN 5 T	ESM 5 T
Hose i.D. 6	46	16	17	27	ESMN 6 T	ESM 6 T
Hose i.D. 8	46	16	17	29	ESMN 8 T	ESM 8 T
Hose i.D. 9	46	16	17	29	ESMN 9 T	ESM 9 T

For hose clips type ZOS (© page 130), type HS (© page 131) or crimping ferrules type LPH (© page 133)

Couplings with squeeze nut

Hose connection	L	SW	D	SW1	Weight	Type No. n. plated	Type No. plain
Hose 3x5	42	14	16	-	30	ESMN 35 TQ	ESM 35 TQ
Hose 4x6	43	14	16	12	32	ESMN 4 TQ	ESM 4 TQ
Hose 6x8	43	14	16	14	34	ESMN 6 TQ	ESM 6 TQ

Couplings with squeeze nut and spring guard

Hose connection	L	SW	D	SW1	Weight	Type No. n. plated	Type No. plain
Hose 3x5	100	14	16	11	35	ESMN 35 TQF	ESM 35 TQF
Hose 4x6	120	14	16	12	39	ESMN 4 TQF	ESM 4 TQF
Hose 6x8	130	14	16	14	44	ESMN 6 TQF	ESM 6 TQF

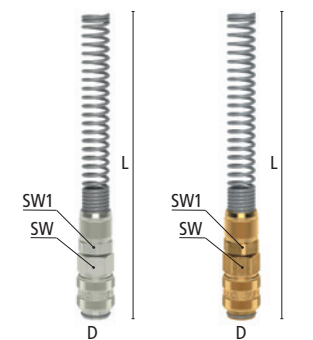
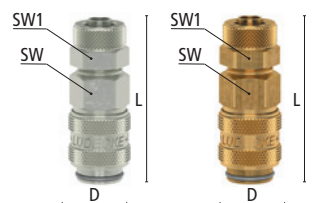
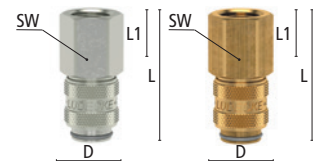
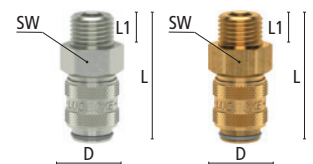
Additional special versions on request.

DN 5



Also in Stainl. Steel
Series ESME
Page 291

Also as
dripless version
Series ESMLA
Page 291

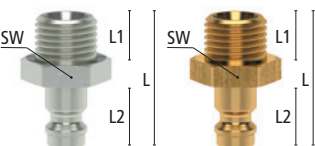
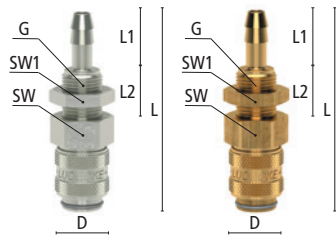
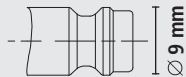


Mini Quick Connect Couplings

Series ESM single shut-off

DN 5

Plug Profile (original size)



Bulkhead couplings

Hose connection	L	SW	D	L1	L2	SW1	G	Weight	Type No. n. plated	Type No. plain
Hose i.D. 4	60	14	16	17	14	14	M 10x1 m	40	ESMN 4 TSV	ESM 4 TSV
Hose i.D. 6	60	17	16	17	14	17	M 12x1 m	45	ESMN 6 TSV	ESM 6 TSV
Hose i.D. 9	60	17	16	17	14	19	M 12x1 m	47	ESMN 9 TSV	ESM 9 TSV

For hose clips type ZOS (© page 130), type HS (© page 131) or crimping ferrules type LPH (© page 133)

Couplings with plug DN 7.2-ES-System adapter

Connection	L	D	L1	DS	Weight	Type No.
Plug ES DN 7.2	49	16	20	12	33	ESMK-ESS

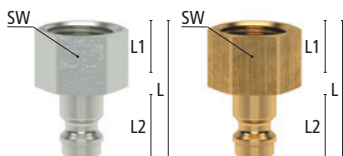
Plugs with male thread

Thread connection	L	SW	L1	L2	Material	Weight	Type No. n. plated	Type No. plain
G 1/8 m	25	13	7	14	MS 58	11	ESMN 18 NA	ESM 18 NA
G 1/4 m	27.5	17	9	14	MS 58	18	ESMN 14 NA	ESM 14 NA
G 3/8 m	27.5	19	9	14	MS 58	21	ESMN 38 NA	ESM 38 NA
M 10x1 m	26	13	8	14	MS 58	11	ESMN 101 NA	ESM 101 NA
M 12x1.5 m	28.5	17	10	14	MS 58	18	ESMN 121 NA	ESM 121 NA
M 14x1.5 m	28.5	17	10	14	MS 58	19	ESMN 141 NA	ESM 141 NA
G 1/8 m	25	13	7	14	Steel zinc-pl.	10		ESM 18 NAS
G 1/4 m	27.5	17	9	14	Steel zinc-pl.	16		ESM 14 NAS

Male thread sealing with PVC sealing ring type HPD (© page 212)

Plugs with female thread

Thread connection	L	SW	L1	L2	Material	Weight	Type No. n. plated	Type No. plain
G 1/8 f	25	13	9	14	MS 58	12	ESMN 18 NI	ESM 18 NI
G 1/4 f	26	17	10	14	MS 58	18	ESMN 14 NI	ESM 14 NI
G 3/8 f	26.5	19	10.5	14	MS 58	22	ESMN 38 NI	ESM 38 NI
M 6 f	22.5	12	8	14	MS 58	11	ESMN 6 NI	ESM 6 NI
M 8 f	24	12	10	14	MS 58	11	ESMN 8 NI	ESM 8 NI
M 10x1 f	22.5	13	7	14	MS 58	10	ESMN 101 NI	ESM 101 NI
M 12x1.5 f	25	17	9	14	MS 58	19	ESMN 121 NI	ESM 121 NI
M 14x1.5 f	25	17	9	14	MS 58	17	ESMN 141 NI	ESM 141 NI
G 1/8 f	25	13	9	14	Steel zinc-pl.	11		ESM 18 NIS
G 1/4 f	26	17	10	14	Steel zinc-pl.	17		ESM 14 NIS

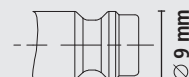


Mini Quick Connect Couplings

single shut-off **Series ESM**

DN 5

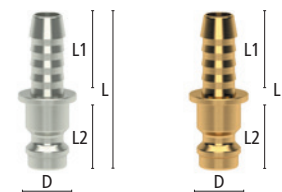
Plug Profile (original size)



Plugs with hose barb

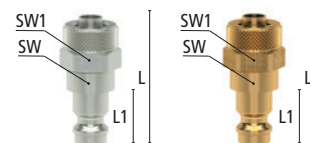
Hose connection	L	D	L1	L2	Material	Weight	Type No. n. plated	Type No. plain
Hose i.D. 4	32	9	16.5	14	MS 58	7	ESMN 4 S	ESM 4 S
Hose i.D. 5	32	12	16.5	14	MS 58	8	ESMN 5 S	ESM 5 S
Hose i.D. 6	32	12	16.5	14	MS 58	8	ESMN 6 S	ESM 6 S
Hose i.D. 8	32	12	16.5	14	MS 58	12	ESMN 8 S	ESM 8 S
Hose i.D. 9	38	12	23	14	MS 58	11	ESMN 9 S	ESM 9 S
Hose i.D. 4	32	9	16.5	14	Steel zinc-pl.	6		ESM 4 SS
Hose i.D. 6	32	12	16.5	14	Steel zinc-pl.	7		ESM 6 SS

For hose clips type ZOS (☺ page 130), type HS (☺ page 131) or crimping ferrules type LPH (☺ page 133)



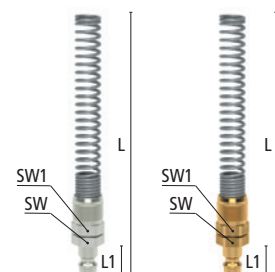
Plugs with squeeze nut

Hose connection	L	SW	L1	SW1	Weight	Type No. n. plated	Type No. plain
Hose 3x5	32	12	14	-	14	ESMN 35 SQ	ESM 35 SQ
Hose 4x6	32	-	14	12	6	ESMN 4 SQ	ESM 4 SQ
Hose 6x8	32	-	14	14	23	ESMN 6 SQ	ESM 6 SQ



Plugs with squeeze nut and spring guards

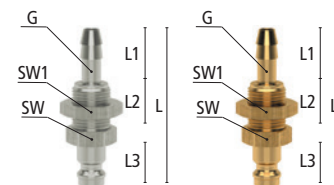
Hose connection	L	SW	L1	SW1	Weight	Type No. n. plated	Type No. plain
Hose 3x5	90	12	14	11	24	ESMN 35 SQF	ESM 35 SQF
Hose 4x6	110	-	14	12	26	ESMN 4 SQF	ESM 4 SQF
Hose 6x8	120	-	14	14	29	ESMN 6 SQF	ESM 6 SQF



Plugs with bulkhead screwing

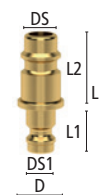
Hose connection	L	SW	L1	L2	L3	SW1	G	Weight	Type No. n. plated	Type No. plain
Hose i.D. 4	50	14	17	14	14	14	M 10x1 m	20	ESMN 4 SSV	ESM 4 SSV
Hose i.D. 6	50	14	17	14	14	17	M 12x1 m	25	ESMN 6 SSV	ESM 6 SSV
Hose i.D. 9	50	17	17	14	14	19	M 12x1 m	30	ESMN 9 SSV	ESM 9 SSV

For hose clips type ZOS (☺ page 130), type HS (☺ page 131) or crimping ferrules type LPH (☺ page 133)



System-adapter

Connection	L	D	L1	L2	DS	DS1	Weight	Type No.
DN 5 - DN 7.2	36	14	14	20	12	9	16	ESM-ES

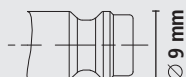


Mini Quick Connect Couplings

Series ESM double shut-off

DN 5

Plug Profile (original size)



Also in Stainless Steel
Series ESME
Page 293

- One-hand quick connect couplings with reduced dimensions made of brass MS 58 plain/ nickel-plated
- Double shut-off to avoid leaking media when disconnecting
- Please note: Valve construction designed for media flow from coupling to plug
- Suitable for low vacuum at low couple force compared to all other compatible products
- On request, couplings also available with coloured anodised aluminium sleeves
- **Attention:** Couplings can be connected with straight-through plugs DN 5. However, double shut-off plugs cannot be connected with standard couplings DN 5
- Several fields of application, above all for liquid media in construction, control technology, switchboard cooling etc.

Materials

- Body, sleeve, valve body, valve, plug: Brass MS 58 plain/ nickel-plated
- Springs, retaining ring: Stainless steel 1.4310
- Balls: Stainless steel 1.3541
- Seals: NBR - additional charge for EPDM (0.40 Euro) and FKM seals (0.94 Euro)

Max. Working Pressure	Temperature	DN	Thread	Flow Rate	Operation	Type of valve	Media	Area	
PN 35 bar	-20°C – +100°C	5	ISO 228 / DIN 13	330 l/min	One-hand	double shut-off	Air / Others	Europe	10

Couplings with male thread

Thread connection	L	SW	D	L1	Weight	Type No. n. plated	Type No. plain
G 1/8 m	37	14	16	7	27	ESMN 18 AAB	ESM 18 AAB
G 1/4 m	38	17	16	9	36	ESMN 14 AAB	ESM 14 AAB
G 3/8 m	38	19	16	9	43	ESMN 38 AAB	ESM 38 AAB
M 10x1 m	37	14	16	7	35	ESMN 101 AAB	ESM 101 AAB
M 12x1.5 m	39	17	16	10	37	ESMN 121 AAB	ESM 121 AAB
M 14x1.5 m	39	17	16	10	37	ESMN 141 AAB	ESM 141 AAB

Male thread sealing with PVC sealing ring type HPD (☺ page 212)

Couplings with female thread

Thread connection	L	SW	D	L1	Weight	Type No. n. plated	Type No. plain
G 1/8 f	38	14	16	9	32	ESMN 18 IAB	ESM 18 IAB
G 1/4 f	38	17	16	9	38	ESMN 14 IAB	ESM 14 IAB
G 3/8 f	39.5	19	16	10.5	39	ESMN 38 IAB	ESM 38 IAB
M 10x1 f	38	14	16	9	34	ESMN 101 IAB	ESM 101 IAB
M 12x1.5 f	38	17	16	9	39	ESMN 121 IAB	ESM 121 IAB
M 14x1.5 f	38	17	16	9	37	ESMN 141 IAB	ESM 141 IAB

Couplings with hose barb

Hose connection	L	SW	D	L1	Weight	Type No. n. plated	Type No. plain
Hose i.D. 4	46	14	16	17	27	ESMN 4 TAB	ESM 4 TAB
Hose i.D. 5	46	14	16	17	27	ESMN 5 TAB	ESM 5 TAB
Hose i.D. 6	46	14	16	17	27	ESMN 6 TAB	ESM 6 TAB
Hose i.D. 8	46	14	16	17	29	ESMN 8 TAB	ESM 8 TAB
Hose i.D. 9	46	14	16	17	29	ESMN 9 TAB	ESM 9 TAB

For hose clips type ZOS (☺ page 130), type HS (☺ page 131) or crimping ferrules type LPH (☺ page 133)

Couplings with squeeze nut

Hose connection	L	SW	D	SW1	Weight	Type No. n. plated	Type No. plain
Hose 3x5	42	14	16	-	32	ESMN 35 TQAB	ESM 35 TQAB
Hose 4x6	43	14	16	12	32	ESMN 4 TQAB	ESM 4 TQAB
Hose 6x8	43	14	16	14	34	ESMN 6 TQAB	ESM 6 TQAB

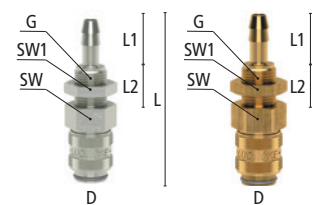
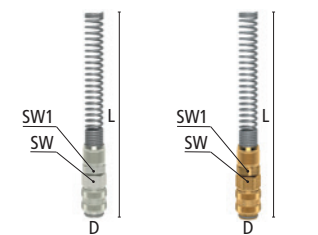
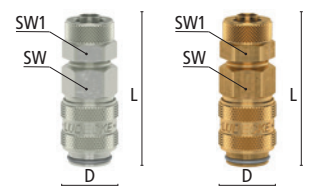
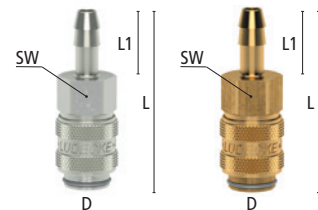
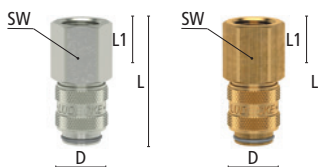
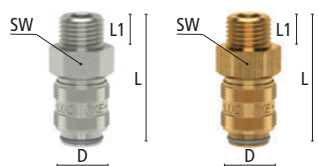
Couplings with squeeze nut and spring guard

Hose connection	L	SW	D	SW1	Weight	Type No. n. plated	Type No. plain
Hose 3x5	100	14	16	11	39	ESMN 35 TQFAB	ESM 35 TQFAB
Hose 4x6	120	14	16	12	39	ESMN 4 TQFAB	ESM 4 TQFAB
Hose 6x8	130	14	16	14	44	ESMN 6 TQFAB	ESM 6 TQFAB

Couplings with bulkhead screwing

Hose connection	L	SW	D	L1	L2	SW1	G	Weight	Type No. n. plated	Type No. plain
Hose i.D. 4	60	14	16	17	14	14	M 10x1 m	40	ESMN 4 TSVAB	ESM 4 TSVAB
Hose i.D. 6	60	17	16	17	14	17	M 12x1 m	45	ESMN 6 TSVAB	ESM 6 TSVAB
Hose i.D. 9	60	17	16	17	14	19	M 12x1 m	47	ESMN 9 TSVAB	ESM 9 TSVAB

For hose clips type ZOS (☺ page 130), type HS (☺ page 131) or crimping ferrules type LPH (☺ page 133)

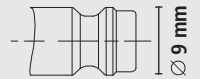


Mini Quick Connect Couplings

double shut-off **Series ESM**

DN 5

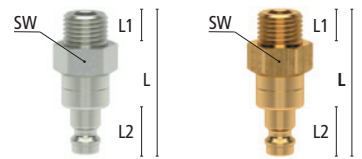
Plug Profile (original size)



Plugs with male thread

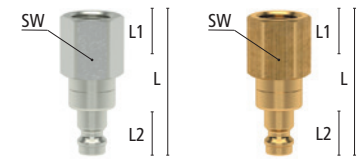
Thread connection	L	SW	L1	L2	Weight	Type No. n. plated	Type No. plain
G 1/8 m	40	13	7	14	26	ESMN 18 NAAB	ESM 18 NAAB
G 1/4 m	42	17	9	14	35	ESMN 14 NAAB	ESM 14 NAAB
G 3/8 m	42	19	9	14	42	ESMN 38 NAAB	ESM 38 NAAB
M 10x1 m	40	14	7	14	25	ESMN 101 NAAB	ESM 101 NAAB
M 12x1.5 m	44	17	10	14	35	ESMN 121 NAAB	ESM 121 NAAB
M 14x1.5 m	44	17	10	14	36	ESMN 141 NAAB	ESM 141 NAAB

Male thread sealing with PVC sealing ring type HPD (☺ page 212)



Plugs with female thread

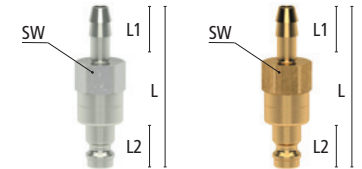
Thread connection	L	SW	L1	L2	Weight	Type No. n. plated	Type No. plain
G 1/8 f	42	13	9	14	28	ESMN 18 NIAB	ESM 18 NIAB
G 1/4 f	42	17	10	14	38	ESMN 14 NIAB	ESM 14 NIAB
G 3/8 f	43.5	19	10.5	14	38	ESMN 38 NIAB	ESM 38 NIAB
M 10x1 f	42	14	9	14	28	ESMN 101 NIAB	ESM 101 NIAB
M 12x1.5 f	42	17	9	14	37	ESMN 121 NIAB	ESM 121 NIAB
M 14x1.5 f	42	17	9	14	38	ESMN 141 NIAB	ESM 141 NIAB



Plugs with hose barb

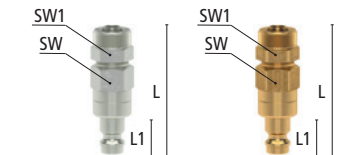
Hose connection	L	SW	L1	L2	Weight	Type No. n. plated	Type No. plain
Hose i.D. 4	50	14	17	14	23	ESMN 4 SAB	ESM 4 SAB
Hose i.D. 6	50	14	17	14	23	ESMN 6 SAB	ESM 6 SAB
Hose i.D. 8	50	14	17	14	25	ESMN 8 SAB	ESM 8 SAB
Hose i.D. 9	50	14	17	14	25	ESMN 9 SAB	ESM 9 SAB

For hose clips type ZOS (☺ page 130), type HS (☺ page 131) or crimping ferrules type LPH (☺ page 133)



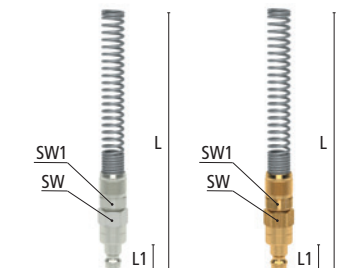
Plugs with squeeze nut

Hose connection	L	SW	L1	SW1	Weight	Type No. n. plated	Type No. plain
Hose 4x6	47	14	14	12	32	ESMN 4 SQAB	ESM 4 SQAB
Hose 6x8	47	14	14	14	32	ESMN 6 SQAB	ESM 6 SQAB



Plugs with squeeze nut and spring guard

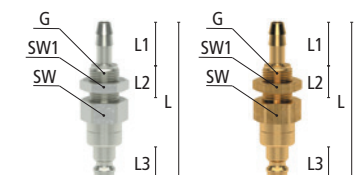
Hose connection	L	SW	L1	SW1	Weight	Type No. n. plated	Type No. plain
Hose 4x6	135	14	14	12	40	ESMN 4 SQFAB	ESM 4 SQFAB
Hose 6x8	135	14	14	14	42	ESMN 6 SQFAB	ESM 6 SQFAB



Plugs with bulkhead screwing

Hose connection	L	SW	L1	L2	L3	SW1	G	Weight	Type No. n. plated	Type No. plain
Hose i.D. 4	64	14	14	14	17	14	M 10x1 m	45	ESMN 4 SSVAB	ESM 4 SSVAB
Hose i.D. 6	64	14	14	14	17	17	M 12x1 m	45	ESMN 6 SSVAB	ESM 6 SSVAB
Hose i.D. 9	64	14	14	14	17	19	M 12x1 m	45	ESMN 9 SSVAB	ESM 9 SSVAB

For hose clips type ZOS (☺ page 130), type HS (☺ page 131) or crimping ferrules type LPH (☺ page 133)

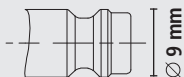


Mini Quick Connect Couplings

Series ESM straight-through

DN 5

Plug Profile (original size)



Also in Stainless Steel
Series ESME
Page 295

- One-hand quick connect couplings with reduced dimensions made of brass MS 58 plain/ nickel-plated
- Straight-through passage for optimised flow capacity, particularly for water/ liquid applications
- Please connect with plug series ESM DN 5 with straight-through passage (page 38)
- Suitable for low vacuum at low couple force compared to all other compatible products
- On request, couplings also available with coloured anodised aluminium sleeves
- Can be used in multiple applications in pneumatics, measure, control and regulation technology

Materials

- Body, sleeve, valve body, valve: Brass MS 58 plain/ nickel-plated
- Springs, retaining ring: Stainless steel 1.4310
- Balls: Stainless steel 1.3541
- Seals: NBR - additional charge for EPDM (0.40 Euro) and FKM seals (0.94 Euro)
- Plug: Brass MS 58 plain/ nickel-plated or steel zinc-plated and yellow passivated (free of chrome VI)

Max. Working Pressure	Temperature	DN	Thread	Flow Rate	Operation	Type of valve	Media	Area	
PN 35 bar	-20°C – +100°C	5	ISO 228 / DIN 13	620 l/min	One-hand	straight-through	Air / Others	Europe	10

Couplings with male thread

Thread connection	L	SW	D	L1	Weight	Type No. n. plated	Type No. plain
G 1/8 m	37	14	16	7	27	ESMN 18 AO	ESM 18 AO
G 1/4 m	38	17	16	9	36	ESMN 14 AO	ESM 14 AO
G 3/8 m	38	19	16	9	43	ESMN 38 AO	ESM 38 AO
M 10x1 m	37	14	16	7	35	ESMN 101 AO	ESM 101 AO
M 12x1.5 m	39	17	16	10	37	ESMN 121 AO	ESM 121 AO
M 14x1.5 m	39	17	16	10	37	ESMN 141 AO	ESM 141 AO

Male thread sealing with PVC sealing ring type HPD (☺ page 212)

Couplings with female thread

Thread connection	L	SW	D	L1	Weight	Type No. n. plated	Type No. plain
G 1/8 f	37	14	16	9	32	ESMN 18 IO	ESM 18 IO
G 1/4 f	38	17	16	9	38	ESMN 14 IO	ESM 14 IO
G 3/8 f	39.5	19	16	10.5	39	ESMN 38 IO	ESM 38 IO
M 10x1 f	38	14	16	9	34	ESMN 101 IO	ESM 101 IO
M 12x1.5 f	38	17	16	9	39	ESMN 121 IO	ESM 121 IO
M 14x1.5 f	38	17	16	9	37	ESMN 141 IO	ESM 141 IO

Couplings with hose barb

Hose connection	L	D	L1	Weight	Type No. n. plated	Type No. plain
Hose i.D. 4	46	16	17	27	ESMN 4 TO	ESM 4 TO
Hose i.D. 5	46	16	17	27	ESMN 5 TO	ESM 5 TO
Hose i.D. 6	46	16	17	27	ESMN 6 TO	ESM 6 TO
Hose i.D. 8	46	16	17	29	ESMN 8 TO	ESM 8 TO
Hose i.D. 9	46	16	17	29	ESMN 9 TO	ESM 9 TO

For hose clips type ZOS (☺ page 130), type HS (☺ page 131) or crimping ferrules type LPH (☺ page 133)

Couplings with squeeze nut

Hose connection	L	SW	D	SW1	Weight	Type No. n. plated	Type No. plain
Hose 3x5	43	14	16	12	32	ESMN 35 TQO	ESM 35 TQO
Hose 4x6	43	14	16	12	32	ESMN 4 TQO	ESM 4 TQO
Hose 6x8	43	14	16	14	34	ESMN 6 TQO	ESM 6 TQO

Couplings with squeeze nut and spring guard

Hose connection	L	SW	D	SW1	Weight	Type No. n. plated	Type No. plain
Hose 3x5	120	14	16	12	39	ESMN 35 TQFO	ESM 35 TQFO
Hose 4x6	120	14	16	12	39	ESMN 4 TQFO	ESM 4 TQFO
Hose 6x8	130	14	16	14	44	ESMN 6 TQFO	ESM 6 TQFO

Couplings with bulkhead screwing

Hose connection	L	SW	D	L1	L2	SW1	G	Weight	Type No. n. plated	Type No. plain
Hose i.D. 4	60	14	16	17	14	14	M 10x1 m	40	ESMN 4 TSVO	ESM 4 TSVO
Hose i.D. 6	60	17	16	17	14	17	M 12x1 m	45	ESMN 6 TSVO	ESM 6 TSVO
Hose i.D. 9	60	17	16	17	14	19	M 12x1 m	47	ESMN 9 TSVO	ESM 9 TSVO

For hose clips type ZOS (☺ page 130), type HS (☺ page 131) or crimping ferrules type LPH (☺ page 133)

