

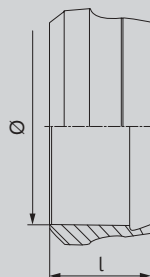
Product range 5 – Tube Fittings



SRD

Cutting Rings

Article category 5101, 5200



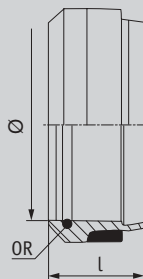
Designation	Series	Ø	l
SR D 04 LL	LL	4	6
SR D 05 LL	LL	5	7
SR D 06 LL	LL	6	7
SR D 08 LL	LL	8	7
SR D 10 LL	LL	10	7
SR D 12 LL	LL	12	7,5
SR D 16 LL	LL	16	9
SR D 06	LS	6	9,5
SR D 08	LS	8	9,5
SR D 10	LS	10	10
SR D 12	LS	12	10
SR D 14	S	14	10
SR D 15	L	15	10
SR D 16	S	16	10,5
SR D 18	L	18	10
SR D 20	S	20	12,5
SR D 22	L	22	10,5
SR D 25	S	25	12,5
SR D 28	L	28	10,5
SR D 30	S	30	13
SR D 35	L	35	13
SR D 38	S	38	13,5
SR D 42	L	42	13,5

Construction Series: LL = Very Light – L = Light – S = Heavy — Ø = Tube Outside Diameter — PN = Nominal Pressure — PB = Maximal Working Pressure

SRDO

Double Edge Cutting Rings with Captive Seal

Article category 5200



Designation	Series	Ø	l	O-Ring
SR DO 06	LS	6	9,5	6x1
SR DO 08	LS	8	9,5	8x1
SR DO 10	LS	10	10	10x1
SR DO 12	LS	12	10	12x1
SR DO 14	S	14	10	14x1
SR DO 15	L	15	10	15x1
SR DO 16	S	16	10,5	16x1
SR DO 18	L	18	10	18x1
SR DO 20	S	20	12,5	20x1
SR DO 22	L	22	10,5	22x1
SR DO 25	S	25	12,5	25x1
SR DO 28	L	28	10,5	28x1
SR DO 30	S	30	13	30x1
SR DO 35	L	35	13	35x1
SR DO 38	S	38	13,5	38x1
SR DO 42	L	42	13,5	42x1

Construction Series: LL = Very Light – L = Light – S = Heavy — Ø = Tube Outside Diameter — PN = Nominal Pressure — PB = Maximal Working Pressure

SRDK

Double Cone-end Rings

Nut typ A and screw respectively
according to DIN 3870 and DIN
3871

Materials: Steel or Brass (MG)

Article category 5203



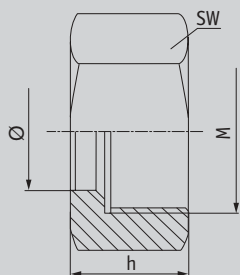
Designation	Ø	OD	l
SR DK 04 MG	4	6	5,5
SR DK 05 MG	5	7	6,0
SR DK 06	6	8	6,5
SR DK 06 MG	6	8	6,5
SR DK 08	8	10	6,5
SR DK 08 MG	8	10	6,5
SR DK 10	10	12	7,5
SR DK 10 MG	10	12	7,5
SR DK 12	12	14	8,0
SR DK 12 MG	12	14	8,0
SR DK 15 MG	15	18	9,0
SR DK 18	18	20	9,0
SR DK 18 MG	18	20	9,0

Construction Series: LL = Very Light – L = Light – S = Heavy — Ø = Tube Outside Diameter — PN = Nominal Pressure —
PB = Maximal Working Pressure

UEM

Nut

Article category 5102, 5201, 5202



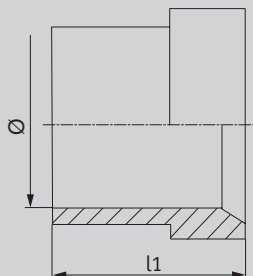
Designation	Series	Ø	M	h	SW
UEM 04 LL	LL	4	M 8x1	11	10
UEM 05 LL	LL	5	M 10x1	11,5	12
UEM 06 LL	LL	6	M 10x1	11,5	12
UEM 08 LL	LL	8	M 12x1	12	14
UEM 10 LL	LL	10	M 14x1	12,5	17
UEM 12 LL	LL	12	M 16x1	13	19
UEM 16 LL	LL	16	M 22x1,5	17	27
UEM NW 04 L	L	6	M 12x1,5	14,5	14
UEM NW 06 L	L	8	M 14x1,5	14,5	17
UEM NW 08 L	L	10	M 16x1,5	15,5	19
UEM NW 10 L	L	12	M 18x1,5	15,5	22
UEM NW 13 L	L	15	M 22x1,5	17	27
UEM NW 16 L	L	18	M 26x1,5	18	32
UEM NW 16 L 27	L	18	M 27x2	18	32
UEM NW 20 L	L	22	M 30x2	20	36
UEM NW 25 L	L	28	M 36x2	21	41
UEM NW 32 L	L	35	M 45x2	24	50
UEM NW 40 L	L	42	M 52x2	24	60
UEM NW 03 S	S	6	M 14x1,5	16,5	17
UEM NW 04 S	S	8	M 16x1,5	16,5	19
UEM NW 06 S	S	10	M 18x1,5	17,5	22
UEM NW 08 S	S	12	M 20x1,5	17,5	24
UEM NW 10 S	S	14	M 22x1,5	20,5	27
UEM NW 13 S	S	16	M 24x1,5	20,5	30
UEM NW 16 S	S	20	M 30x2	24	36
UEM NW 20 S	S	25	M 36x2	27	46
UEM NW 25 S	S	30	M 42x2	29	50
UEM NW 32 S	S	38	M 52x2	32,5	60

Construction Series: LL = Very Light – L = Light – S = Heavy — Ø = Tube Outside Diameter — PN = Nominal Pressure — PB = Maximal Working Pressure

DRD

Flare Sleeve for Flare Couplings

Article category 5200



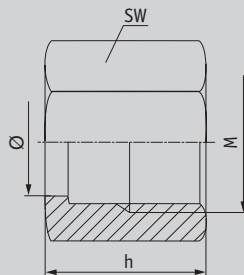
Designation	Series	Pressure	Ø	l1
DR D 06	L/S	PN 630	6	10,5
DR D 08	L/S	PN 630	8	11
DR D 10	L/S	PN 630	10	12,5
DR D 12	L/S	PN 630	12	13
DR D 14	S	PN 630	14	14,5
DR D 15	L	PN 400	15	14
DR D 16	S	PN 400	16	17
DR D 18	L	PN 315	18	14,5
DR D 20	S	PN 400	20	17,5
DR D 22	L	PN 315	22	18
DR D 25	S	PN 400	25	20
DR D 28	L	PN 250	28	17
DR D 30	S	PN 400	30	21,5
DR D 35	L	PN 250	35	19
DR D 38	S	PN 315	38	26,5
DR D 42	L	PN 250	42	21

Construction Series: LL = Very Light – L = Light – S = Heavy — Ø = Tube Outside Diameter — PN = Nominal Pressure — PB = Maximal Working Pressure

UEM B

Nut for Flare Couplings

Article category 5201, 5202



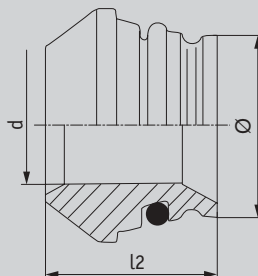
Designation	Series	Pressure	Ø	M	h	SW
UEM NW 04 LB	L	PN 400	6	M 12x1,5	18	14
UEM NW 06 LB	L	PN 400	8	M 14x1,5	19	17
UEM NW 08 LB	L	PN 400	10	M 16x1,5	20,5	19
UEM NW 10 LB	L	PN 400	12	M 18x1,5	21,5	22
UEM NW 13 LB	L	PN 400	15	M 22x1,5	24	27
UEM NW 16 LB	L	PN 315	18	M 26x1,5	23	32
UEM NW 20 LB	L	PN 315	22	M 30x2	27,5	36
UEM NW 25 LB	L	PN 250	28	M 36x2	27,5	41
UEM NW 32 LB	L	PN 250	35	M 45x2	30	50
UEM NW 40 LB	L	PN 250	42	M 52x2	34	60
UEM NW 03 SB	S	PN 630	6	M 14x1,5	19	17
UEM NW 04 SB	S	PN 630	8	M 16x1,5	20	19
UEM NW 06 SB	S	PN 630	10	M 18x1,5	21,5	22
UEM NW 08 SB	S	PN 630	12	M 20x1,5	22	24
UEM NW 10 SB	S	PN 630	14	M 22x1,5	24	27
UEM NW 13 SB	S	PN 400	16	M 24x1,5	26,5	30
UEM NW 16 SB	S	PN 400	20	M 30x2	27,5	36
UEM NW 20 SB	S	PN 400	25	M 36x2	30,5	46
UEM NW 25 SB	S	PN 400	30	M 42x2	32	50
UEM NW 32 SB	S	PN 315	38	M 52x2	38	60

Construction Series: LL = Very Light – L = Light – S = Heavy — Ø = Tube Outside Diameter — PN = Nominal Pressure — PB = Maximal Working Pressure

ZR 0

O-Ring Adapter for Flare Couplings

Article category 5200



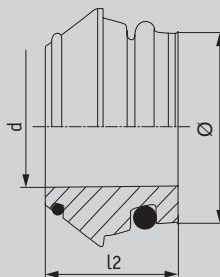
Designation	Series	Pressure	Ø	L2	d	O-Ring
ZR 0 06	L/S	PN 630	6	3	11	4x1,5
ZR 0 08	L/S	PN 630	8	5	11,5	6x1,5
ZR 0 10	L/S	PN 630	10	6	12	7,5x1,5
ZR 0 12	L/S	PN 630	12	8	12	9x1,5
ZR 0 14	S	PN 630	14	9	13	10x2
ZR 0 15	L	PN 400	15	11	12	12x2
ZR 0 16	S	PN 400	16	11	14,5	12x2
ZR 0 18	L	PN 315	18	14	12,5	15x2
ZR 0 20	S	PN 400	20	14	17,5	16,3x2,4
ZR 0 22	L	PN 315	22	17	13,5	20x2
ZR 0 25	S	PN 400	25	19	19	20,3x2,4
ZR 0 28	L	PN 250	28	23	13,5	26x2
ZR 0 30	S	PN 400	30	23	20,5	25,3x2,4
ZR 0 35	L	PN 250	35	28	17,5	32x2,5
ZR 0 38	S	PN 315	38	30	24	33,3x2,4
ZR 0 42	L	PN 250	42	35	19	38x2,5

Construction Series: LL = Very Light – L = Light – S = Heavy — Ø = Tube Outside Diameter — PN = Nominal Pressure —
PB = Maximal Working Pressure

ZR 00

O-Ring Adapter for Flare Couplings with 2 O-Rings

Article category 5200



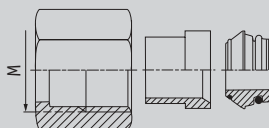
Designation	Series	Pressure	Ø	d	l2	O-Ring 1	O-Ring 2
ZR 00 06	L/S	PN 630	6	3	11,5	4x1,5	4,4x0,8
ZR 00 08	L/S	PN 630	8	5	12	6x15	6x0,8
ZR 00 10	L/S	PN 630	10	6	12,5	7,5x1,5	7,5x0,8
ZR 00 12	L/S	PN 630	12	8	12,5	9x1,5	9,5x0,8
ZR 00 14	S	PN 630	14	9	14	10x2	11x1
ZR 00 15	L	PN 400	15	11	12,5	12x2	12,5x0,8
ZR 00 16	S	PN 400	16	11	15	12x2	12,5x1
ZR 00 18	L	PN 400	18	14	13	15x2	15x1
ZR 00 20	S	PN 400	20	14	18,5	16,3x2,4	16x1
ZR 00 22	L	PN 250	22	17	14,2	20x2	18x1
ZR 00 25	S	PN 400	25	19	20	20,3x2,4	20x1
ZR 00 28	L	PN 250	28	23	14,7	26x2	23x1
ZR 00 30	S	PN 400	30	23	22	25,3x2,4	25x1
ZR 00 35	L	PN 250	35	28	18,5	32x2,5	30x1
ZR 00 38	S	PN 315	38	30	26	33,3x2,4	32x1,78
ZR 00 42	L	PN 250	42	35	20,5	38x2,5	37x1

Construction Series: LL = Very Light – L = Light – S = Heavy — Ø = Tube Outside Diameter — PN = Nominal Pressure — PB = Maximal Working Pressure

BOOK

Tube Connecting Parts for Flare Couplings with 2 O-Rings

Article category 5203



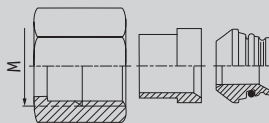
Designation	Series	Pressure	Ø	M
BOOK NW 04 L	L	PN 400	6	M 12x1,5
BOOK NW 06 L	L	PN 400	8	M 14x1,5
BOOK NW 08 L	L	PN 400	10	M 16x1,5
BOOK NW 10 L	L	PN 400	12	M 18x1,5
BOOK NW 13 L	L	PN 400	15	M 22x1,5
BOOK NW 16 L	L	PN 400	18	M 26x1,5
BOOK NW 20 L	L	PN 250	22	M 30x2
BOOK NW 25 L	L	PN 250	28	M 36x2
BOOK NW 32 L	L	PN 250	35	M 45x2
BOOK NW 40 L	L	PN 250	42	M 52x2
BOOK NW 03 S	S	PN 630	6	M 14x1,5
BOOK NW 04 S	S	PN 630	8	M 16x1,5
BOOK NW 06 S	S	PN 630	10	M 18x1,5
BOOK NW 08 S	S	PN 630	12	M 20x1,5
BOOK NW 10 S	S	PN 630	14	M 22x1,5
BOOK NW 13 S	S	PN 400	16	M 24x1,5
BOOK NW 16 S	S	PN 400	20	M 30x2
BOOK NW 20 S	S	PN 400	25	M 36x2
BOOK NW 25 S	S	PN 400	30	M 42x2
BOOK NW 32 S	S	PN 315	38	M 52x2

Construction Series: LL = Very Light – L = Light – S = Heavy — Ø = Tube Outside Diameter — PN = Nominal Pressure — PB = Maximal Working Pressure

BOK

Tube Connecting Parts for Flare Couplings

Article category 5203



Designation	Series	Pressure	Ø	M
BOK NW 04 L	L	PN 400	6	M 12x1,5
BOK NW 06 L	L	PN 400	8	M 14x1,5
BOK NW 08 L	L	PN 400	10	M 16x1,5
BOK NW 10 L	L	PN 400	12	M 18x1,5
BOK NW 13 L	L	PN 400	15	M 22x1,5
BOK NW 16 L	L	PN 315	18	M 26x1,5
BOK NW 20 L	L	PN 315	22	M 30x2
BOK NW 25 L	L	PN 250	28	M 36x2
BOK NW 32 L	L	PN 250	35	M 45x2
BOK NW 40 L	L	PN 250	42	M 52x2
BOK NW 03 S	S	PN 630	6	M 14x1,5
BOK NW 04 S	S	PN 630	8	M 16x1,5
BOK NW 06 S	S	PN 630	10	M 18x1,5
BOK NW 08 S	S	PN 630	12	M 20x1,5
BOK NW 10 S	S	PN 630	14	M 22x1,5
BOK NW 13 S	S	PN 400	16	M 24x1,5
BOK NW 16 S	S	PN 400	20	M 30x2
BOK NW 20 S	S	PN 400	25	M 36x2
BOK NW 25 S	S	PN 400	30	M 42x2
BOK NW 32 S	S	PN 315	38	M 52x2

Construction Series: LL = Very Light – L = Light – S = Heavy — Ø = Tube Outside Diameter — PN = Nominal Pressure — PB = Maximal Working Pressure

VM

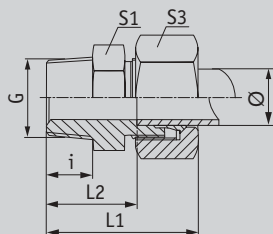
Straight Male Stud Couplings

Stud standpipe according to DIN 3901

Sealing: B - DIN 3852

Thread G: metric taper

Article category 5103



Designation	Series	Pressure	Ø	G	L1	L2	i	S1	S3
VM 04 LL	LL	PN 100	4	M 8x1 K	26	16	8	11	10
VM 04 LL 10	LL	PN 100	4	M 10x1 K	26	16	8	11	10
VM 04 LL 6	LL	PN 100	4	M 6x1 K	27	16	8	10	10
VM 05 LL	LL	PN 100	5	M 8x1 K	26	14,5	8	11	12
VM 06 LL	LL	PN 100	6	M 10x1 K	26	14,5	8	11	12
VM 06 LL 6	LL	PN 100	6	M 6x1 K	27,5	14,5	8	11	12
VM 06 LL 8	LL	PN 100	6	M 8x1 K	26	14,5	8	11	12
VM 08 LL	LL	PN 100	8	M 10x1 K	28	16,5	8	12	14

Construction Series: LL = Very Light – L = Light – S = Heavy — Ø = Tube Outside Diameter — PN = Nominal Pressure — PB = Maximal Working Pressure

VM

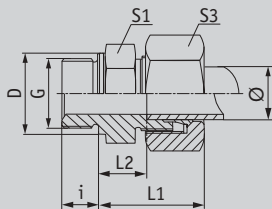
Straight Male Stud Couplings

Stud standpipe according to DIN 3901

Sealing: B - DIN 3852

Thread G: metric parallel

Article category 5103



Designation	Series	Pressure	Ø	G	L1	L2	i	D	S1	S3
VM NW 04 HL	L	PN 315	6	M 10x1	23	8,5	8	14	14	14
VM NW 04 HL 12	L	PN 315	6	M 12x1,5	25	10	12	17	17	14
VM NW 04 HL 14	L	PN 315	6	M 14x1,5	25	10	12	19	19	14
VM NW 04 HL 16	L	PN 315	6	M 16x1,5	25	11,5	12	21	22	14
VM NW 04 HL 18	L	PN 315	6	M 18x1,5	24,5	11,5	12	23	24	14
VM NW 04 HL 22	L	PN 315	6	M 22x1,5	28	13	14	27	27	14
VM NW 06 HL	L	PN 315	8	M 12x1,5	25	10	12	17	17	17
VM NW 06 HL 10	L	PN 315	8	M 10x1	25	10	12	17	17	17
VM NW 06 HL 14	L	PN 315	8	M 14x1,5	25	10	12	19	19	17
VM NW 06 HL 16	L	PN 315	8	M 16x1,5	26	11,5	12	21	22	17
VM NW 06 HL 18	L	PN 315	8	M 18x1,5	26	11,5	12	23	24	17
VM NW 06 HL 22	L	PN 315	8	M 22x1,5	28	13	14	27	27	17
VM NW 08 HL	L	PN 315	10	M 14x1,5	26	11	12	19	19	19
VM NW 08 HL 12	L	PN 315	10	M 12x1,5	26	11	12	17	17	19
VM NW 08 HL 16	L	PN 315	10	M 16x1,5	27,5	12,5	12	22	22	19
VM NW 08 HL 18	L	PN 315	10	M 18x1,5	27,5	12,5	12	23	24	19
VM NW 08 HL 22	L	PN 315	10	M 22x1,5	29	14	14	27	27	19
VM NW 10 HL	L	PN 315	12	M 16x1,5	27	12,5	12	21	22	22
VM NW 10 HL 12	L	PN 315	12	M 12x1,5	26	11	12	17	19	22
VM NW 10 HL 14	L	PN 315	12	M 14x1,5	27	12,5	12	19	22	22
VM NW 10 HL 18	L	PN 315	12	M 18x1,5	27	12,5	12	23	24	22
VM NW 10 HL 22	L	PN 315	12	M 22x1,5	28,5	14	14	27	27	22
VM NW 10 HL 24	L	PN 315	12	M 24x1,5	28,5	14	14	27	27	22
VM NW 10 HL 26	L	PN 315	12	M 26x1,5	28,5	14	14	27	27	22
VM NW 13 HL	L	PN 315	15	M 18x1,5	29	13,5	12	23	24	27
VM NW 13 HL 14	L	PN 315	15	N 14x1,5	29	13,5	12	19	24	27
										-->

Construction Series: LL = Very Light – L = Light – S = Heavy — Ø = Tube Outside Diameter — PN = Nominal Pressure — PB = Maximal Working Pressure

VM

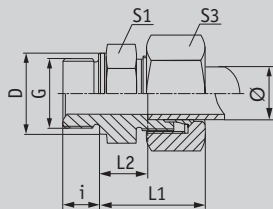
Straight Male Stud Couplings

Stud standpipe according to DIN 3901

Sealing: B - DIN 3852

Thread G: metric parallel

Article category 5103



Designation	Series	Pressure	Ø	G	L1	L2	i	D	S1	S3
<--										
VM NW 13 HL 16	L	PN 315	15	M 16x1,5	29	13,5	12	21	24	27
VM NW 13 HL 22	L	PN 315	15	M 22x1,5	30,5	15	14	27	27	27
VM NW 13 HL 26	L	PN 315	15	M 26x1,5	30,5	15	16	31	32	27
VM NW 13 HL 30	L	PN 315	15	M 30x2	30,5	15	16	39	41	27
VM NW 16 HL	L	PN 315	18	M 22x1,5	31	14,5	14	27	27	32
VM NW 16 HL 18	L	PN 315	18	M 18x1,5	30,5	14	12	23	27	32
VM NW 16 HL 26	L	PN 315	18	M 26x1,5	31	14,5	16	31	32	32
VM NW 16 HL 27	L	PN 315	18	M 27x2	31	14,5	16	31	32	32
VM NW 16 HL 30-1,5	L	PN 315	18	M 30x1,5	31	15	16	39	41	27
VM NW 20 HL	L	PN 160	22	M 26x1,5	33	16,5	16	31	32	36
VM NW 20 HL 18	L	PN 160	22	M 18x1,5	31	14,5	14	27	27	36
VM NW 20 HL 22	L	PN 160	22	M 22x1,5	33	16,5	14	27	32	36
VM NW 20 HL 30-1,5	L	PN 160	22	M 30x1,5	33	16,5	14	39	41	36
VM NW 25 HL	L	PN 160	28	M 33x2	34	17,5	18	39	41	41
VM NW 25 HL 22	L	PN 160	28	M 22x1,5	34	17,5	18	27	32	41
VM NW 25 HL 27	L	PN 160	28	M 27x2	34	17,5	20	39	41	41
VM NW 25 HL 42	L	PN 160	28	M 42x2	34	19	22	55	55	41
VM NW 32 HL	L	PN 160	35	M 42x2	39	17,5	20	49	50	50
VM NW 40 HL	L	PN 160	42	M 48x2	42	19	22	55	55	60

Construction Series: LL = Very Light – L = Light – S = Heavy — Ø = Tube Outside Diameter — PN = Nominal Pressure — PB = Maximal Working Pressure

VM

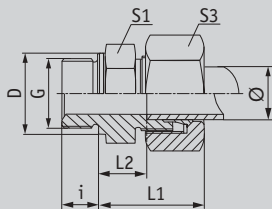
Straight Male Stud Couplings

Stud standpipe according to DIN 3901

Sealing: B - DIN 3852

Thread G: metric parallel

Article category 5103



Designation	Series	Pressure	Ø	G	L1	L2	i	D	S1	S3
VM NW 03 HS	S	PB 630*	6	M 12x1,5	28	13	12	17	17	17
VM NW 03 HS 16	S	PB 630*	6	M 16x1,5	28	13	12	21	17	17
VM NW 03 HS 18	S	PB 630*	6	M 18x1,5	28	13	14	27	19	17
VM NW 03 HS 22	S	PB 630*	6	M 22x,15	28	13	14	25	19	17
VM NW 04 HS	S	PB 630*	8	M 14x1,5	30	15	12	19	19	19
VM NW 06 HS	S	PB 630*	10	M 16x1,5	31	15	12	21	22	22
VM NW 06 HS 18	S	PB 630*	10	M 18x1,5	31	15	14	27	22	22
VM NW 06 HS 22	S	PB 630*	10	M 22x1,5	31	15	14	27	24	22
VM NW 08 HS	S	PB 630*	12	M 18x1,5	33	17	12	23	24	24
VM NW 08 HS 14	S	PB 630*	12	M 14x1,5	33	17	12	21	19	24
VM NW 08 HS 16	S	PB 630*	12	M 16x1,5	29	17	12	21	24	24
VM NW 08 HS 22	S	PB 400*	12	M 22x1,5	33,5	17,5	14	27	27	24
VM NW 10 HS	S	PB 630*	14	M 20x1,5	37	19	14	25	27	27
VM NW 10 HS 16	S	PB 630*	14	M 16x1,5	37	19	12	21	24	27
VM NW 10 HS 18	S	PB 630*	14	M 18x1,5	37	19	14	27	24	27
VM NW 10 HS 22	S	PB 630*	14	M 22x1,5	37	19	14	27	27	27
VM NW 13 HS	S	PB 400	16	M 22x1,5	37	18,5	14	27	27	30
VM NW 13 HS 16	S	PB 400	16	M 16x1,5	37	18,5	12	21	24	30
VM NW 13 HS 18	S	PB 400	16	M 18x1,5	37	18,5	12	23	27	30
VM NW 13 HS 26	S	PB 400	16	M 26x1,5	37	18,5	16	32	32	30
VM NW 16 HS	S	PB 400	20	M 27x2	42	20,5	16	32	32	36
VM NW 16 HS 22	S	PB 400	20	M 22x1,5	42	20,5	14	27	32	36
VM NW 16 HS 30-1,5	S	PB 400	20	M 30x1,5	42	20,5	18	39	36	36
VM NW 20 HS	S	PB 400	25	M 33x2	47	23	18	39	41	46
VM NW 20 HS 27	S	PB 400	25	M 27x2	47	23	16	32	41	46
VM NW 25 HS	S	PB 250	30	M 42x2	50	23,5	20	49	50	50
VM NW 32 HS	S	PB 250	38	M 48x2	57	26	22	55	55	60

*) Lowest safety factor: 2

Construction Series: LL = Very Light – L = Light – S = Heavy — Ø = Tube Outside Diameter — PN = Nominal Pressure — PB = Maximal Working Pressure

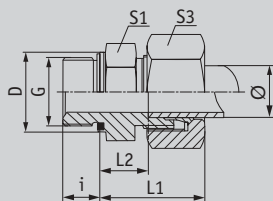
VM-ED

Straight Male Stud Couplings

with Captive Seal (Perbunan)

Thread G: metric parallel

Article category 5204



Designation	Series	Pressure	Ø	G	L1	L2	i	D	S1	S3
VM NW 04 HL ED	L	PN 315	6	M 10x1	23	8,5	8	14	14	14
VM NW 06 HL ED	L	PN 315	8	M 12x1,5	25	10	12	17	17	17
VM NW 06 HL 16 ED	L	PN 315	8	M 16x1,5	25	10	12	21,7	22	17
VM NW 08 HL ED	L	PN 315	10	M 14x1,5	26	11	12	19	19	19
VM NW 08 HL 12 ED	L	PN 315	10	M 12x1,5	26	11	12	17	17	19
VM NW 08 HL 16 ED	L	PN 315	10	M 16x1,5	27,5	12,5	12	21,7	22	19
VM NW 08 HL 18 ED	L	PN 315	10	M 18x1,5	27,5	12,5	12	23,7	24	19
VM NW 08 HL 22 ED	L	PN 315	10	M 22x1,5	27,5	12,5	14	27	27	19
VM NW 10 HL ED	L	PN 315	12	M 16x1,5	27	12,5	12	21,7	22	22
VM NW 10 HL 18 ED	L	PN 315	12	M 18x1,5	33	17	12	23,7	24	22
VM NW 10 HL 22 ED	L	PN 315	12	M 22x1,5	28,5	14	14	27	27	22
VM NW 13 HL ED	L	PN 315	15	M 18x1,5	29	13,5	12	23,7	24	27
VM NW 13 HL 22 ED	L	PN 315	15	M 22x1,5	31	14,5	14	27	27	27
VM NW 16 HL ED	L	PN 315	18	M 22x1,5	31	14,5	14	27	27	32
VM NW 20 HL ED	L	PN 160	22	M 26x1,5	33	16,5	16	31,7	32	36
VM NW 25 HL ED	L	PN 160	28	M 33x2	34	17,5	18	39,7	41	41
VM NW 32 HL ED	L	PN 160	35	M 42x2	39	17,5	20	49,7	50	50
VM NW 40 HL ED	L	PN 160	42	M 48x2	42	19	22	55	55	60

Construction Series: LL = Very Light – L = Light – S = Heavy — Ø = Tube Outside Diameter — PN = Nominal Pressure — PB = Maximal Working Pressure

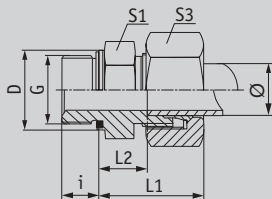
VM-ED

Straight Male Stud Couplings

with Captive Seal (Perbunan)

Thread G: metric parallel

Article category 5304



Designation	Series	Pressure	Ø	G	L1	L2	i	D	S1	S3
VM NW 03 HS ED	S	PN 630	6	M 12x1,5	28	13	12	17	17	17
VM NW 04 HS ED	S	PN 630	8	M 14x1,5	30	15	12	19	19	19
VM NW 06 HS ED	S	PN 630	10	M 16x1,5	31	15	12	21,7	22	22
VM NW 08 HS ED	S	PN 630	12	M 18x1,5	33	17	12	23,7	24	24
VM NW 10 HS ED	S	PN 630	14	M 20x1,5	37	19	14	25,7	27	27
VM NW 13 HS ED	S	PN 400	16	M 22x1,5	37	18,5	14	27	27	30
VM NW 16 HS ED	S	PN 400	20	M 27x2	42	20,5	16	32	32	36
VM NW 20 HS ED	S	PN 400	25	M 33x2	47	23	18	39,7	41	46
VM NW 25 HS ED	S	PN 400	30	M 42x2	50	23,5	20	49,7	50	50
VM NW 32 HS ED	S	PN 315	38	M 48x2	57	26	22	55	55	60

Construction Series: LL = Very Light – L = Light – S = Heavy — Ø = Tube Outside Diameter — PN = Nominal Pressure — PB = Maximal Working Pressure

VMO

Straight Male Stud Couplings

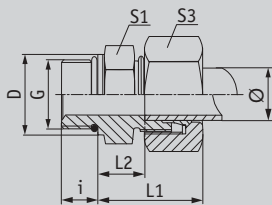
Sealing: O-Ring (Perbunan)

Thread G: metric parallel

Range of temperature:

-20°C to +100°C

Article category 5204, 5304



Designation	Series	Pressure	Ø	D	G	L1	L2	i	S1	S3	O-Ring
VMO NW 04 HL	L	PN 250	6	M 12x1,5	M 10x1	23	8,5	8	14	14	8x1,5
VMO NW 06 HL	L	PN 250	8	M 14x1,5	M 12x1,5	25	10	12	17	17	9,3x2,4
VMO NW 08 HL	L	PN 250	10	M 16x1,5	M 14x1,5	26	11	12	19	19	11,3x2,4
VMO NW 10 HL	L	PN 250	12	M 18x1,5	M 16x1,5	27	12,5	12	22	22	13,3x2,4
VMO NW 13 HL	L	PN 250	15	M 22x1,5	M 18x1,5	29	13,5	12	24	27	15,3x2,4
VMO NW 16 HL	L	PN 160	18	M 26x1,5	M 22x1,5	32	14,5	14	27	32	19,3x2,4
VMO NW 20 HL	L	PN 160	22	M 30x2	M 26x1,5	34	16,5	16	32	36	23,3x2,4
VMO NW 25 HL	L	PN 100	28	M 36x2	M 33x2	34	17,5	18	41	41	29,5x3
VMO NW 32 HL	L	PN 100	35	M 45x2	M 42x2	39	17,5	20	50	50	38x3
VMO NW 03 HS	S	PN 630	6	M 14x1,5	M 12x1,5	28	13	12	17	17	9,3x2,4
VMO NW 04 HS	S	PN 630	8	M 16x1,5	M 14x1,5	30	15	12	19	19	11,3x2,4
VMO NW 06 HS	S	PN 630	10	M 18x1,5	M 16x1,5	31	15	12	22	22	13,3x2,4
VMO NW 08 HS	S	PN 630	12	M 20x1,5	M 18x1,5	33	17	12	24	24	15,3x2,4
VMO NW 13 HS	S	PN 400	16	M 24x1,5	M 22x1,5	37	18,5	14	27	30	19,3x2,4
VMO NW 16 HS	S	PN 400	20	M 30x2	M 27x2	41	20,5	16	32	36	23,5x3
VMO NW 20 HS	S	PN 400	25	M 36x2	M 33x2	47	23	18	41	46	29,5x3
VMO NW 25 HS	S	PN 250	30	M 42x2	M 42x2	50	23,5	20	50	50	38x3

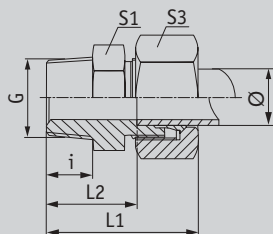
Construction Series: LL = Very Light – L = Light – S = Heavy — Ø = Tube Outside Diameter — PN = Nominal Pressure — PB = Maximal Working Pressure

VN

Straight Male Stud Couplings

Thread G: NPT (ANSI B 1.20.1 – 1983))

Article category 5104, 5204



Designation	Series	Pressure	Ø	G	L1	L2	i	S1	S3
VN 04 LL	LL	PN 100	4	1/8" NPT	28	18	10	11	10
VN 05 LL	LL	PN 100	5	1/8" NPT	28	16,5	10	11	12
VN 06 LL	LL	PN 100	6	1/8" NPT	28	16,5	10	11	12
VN 08 LL	LL	PN 100	8	1/8" NPT	30	18,5	10	12	14
VN NW 04 HL	L	PN 315	6	1/8" NPT	32	17	10	12	14
VN NW 04 HL 1/4	L	PN 315	6	1/4" NPT	38	23	15	17	14
VN NW 04 HL 1/2	L	PN 315	6	1/2" NPT	44	29	20	24	14
VN NW 04 HL 3/8	L	PN 315	6	3/8" NPT	39	24	15	19	14
VN NW 06 HL	L	PN 315	8	1/4" NPT	38	23	15	17	17
VN NW 06 HL 1/8	L	PN 315	8	1/8" NPT	38	23	10	12	17
VN NW 06 HL 3/8	L	PN 315	8	3/8" NPT	39	24	15,5	19	17
VN NW 06 HL 1/2	L	PN 315	8	1/2" NPT	44	29	20	24	17
VN NW 08 HL	L	PN 315	10	1/4" NPT	39	24	15	17	19
VN NW 08 HL 1/8	L	PN 315	10	1/8" NPT	39,5	25	15,5	19	19
VN NW 08 HL 3/8	L	PN 315	10	3/8" NPT	40	25	15,2	19	19
VN NW 08 HL 1/2	L	PN 315	10	1/2" NPT	45	30	20	24	19
VN NW 10 HL	L	PN 315	12	3/8" NPT	40	25	15,5	19	22
VN NW 10 HL 1/8	L	PN 315	12	1/8" NPT	40	25	15	19	22
VN NW 10 HL 1/4	L	PN 315	12	1/4" NPT	40	25	15	19	22
VN NW 10 HL 1/2	L	PN 315	12	1/2" NPT	45	30	20	24	22
VN NW 10 HL 3/4	L	PN 315	12	3/4" NPT	45	32	20	32	22
VN NW 13 HL	L	PN 315	15	1/2" NPT	46	31	20	24	27
VN NW 13 HL 1/4	L	PN 315	15	1/4" NPT	40	25	15	19	22
VN NW 13 HL 3/8	L	PN 315	15	3/8" NPT	41,5	26,5	15,5	24	27
VN NW 13 HL 3/4	L	PN 315	15	3/4" NPT	46	32	20	32	27

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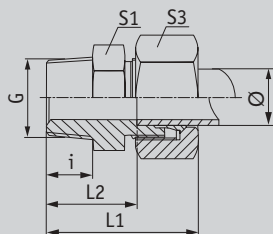
Construction Series: LL = Very Light – L = Light – S = Heavy — Ø = Tube Outside Diameter — PN = Nominal Pressure — PB = Maximal Working Pressure

VN

Straight Male Stud Couplings

Thread G: NPT (ANSI B 1.20.1
– 1983)

Article category 5204



Designation	Series	Pressure	Ø	G	L1	L2	i	S1	S3
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VN NW 16 HL	L	PN 315	18	1/2" NPT	48	31,5	20	27	32
VN NW 16 HL 1/4	L	PN 315	18	1/4" NPT	32	25	15	19	32
VN NW 16 HL 3/4	L	PN 315	18	3/4" NPT	48,5	32	20	32	32
VN NW 20 HL	L	PN 160	22	3/4" NPT	50	33,5	20	32	36
VN NW 20 HL 1/2	L	PN 160	22	1/2" NPT	50	33,5	20	32	36
VN NW 25 HL	L	PN 160	28	1" NPT	56	39,5	25	41	41
VN NW 32 HL	L	PN 160	35	1 1/4" NPT	62	40,5	25,5	46	50
VN NW 32 HL 1	L	PN 160	35	1" NPT	62	40,5	25	41	50
VN NW 40 HL	L	PN 160	42	1 1/2" NPT	65	42	26	55	60

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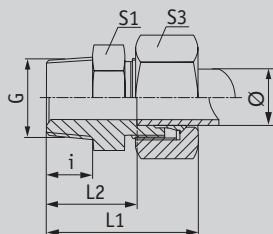
Construction Series: LL = Very Light – L = Light – S = Heavy — Ø = Tube Outside Diameter — PN = Nominal Pressure —
PB = Maximal Working Pressure

VN

Straight Male Stud Couplings

Thread G: NPT (ANSI B 1.20.1
– 1983)

Article category 5304



Designation	Series	Pressure	Ø	G	L1	L2	i	S1	S3
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VN NW 03 HS	S	PN 630	6	1/4" NPT	43	28	15	17	17
VN NW 03 HS 1/2	S	PN 630	6	1/2" NPT	50	35	20	24	17
VN NW 04 HS	S	PN 630	8	1/4" NPT	43	28	15	17	19
VN NW 04 HS 3/8	S	PN 630	8	1/8" NPT	43	28	15,5	19	19
VN NW 06 HS	S	PN 630	10	3/8" NPT	44	27,5	15,5	19	22
VN NW 06 HS 1/4	S	PN 630	10	1/4" NPT	44	27,5	15	19	22
VN NW 06 HS 1/2	S	PN 400	10	1/2" NPT	51	34,5	20	24	22
VN NW 08 HS	S	PN 630	12	3/8" NPT	46	29,5	15,5	22	24
VN NW 08 HS 1/4	S	PN 630	12	1/4" NPT	46	29,5	15,1	22	24
VN NW 08 HS 1/2	S	PN 630	12	1/2" NPT	51	34,5	20	24	24
VN NW 10 HS	S	PN 630	14	1/2" NPT	54	36	20	24	27
VN NW 10 HS 3/8	S	PN 630	14	3/8" NPT	54	36	15,5	19	27
VN NW 13 HS	S	PN 400	16	1/2" NPT	54	35,5	20	27	30
VN NW 13 HS 3/4	S	PN 400	16	3/4" NPT	56	37,5	20	30	30
VN NW 16 HS	S	PN 400	20	3/4" NPT	59	37,5	20	32	36
VN NW 16 HS 1/2	S	PN 400	20	1/2" NPT	59	37,5	20	32	30
VN NW 16 HS 1	S	PN 400	20	1" NPT	66	44,5	25	36	36
VN NW 20 HS	S	PN 400	25	1" NPT	69	45	25	41	46
VN NW 20 HS 3/4	S	PN 400	25	3/4" NPT	64	40	20	41	46
VN NW 20 HS 1 1/4	S	PN 400	25	1 1/4" NPT	69	45,5	25,5	46	46
VN NW 25 HS	S	PN 400	30	1 1/4" NPT	73	46,5	25,5	46	50
VN NW 25 HS 1	S	PN 400	30	1" NPT	66,5	40	25	46	50
VN NW 32 HS	S	PN 315	38	1 1/2" NPT	80	49	26	55	60

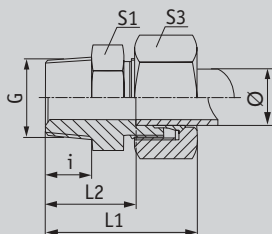
Construction Series: LL = Very Light – L = Light – S = Heavy — Ø = Tube Outside Diameter — PN = Nominal Pressure —
PB = Maximal Working Pressure

VR

Straight Male Stud Couplings

Thread G: BSP taper (DIN 3858)

Article category 5105



Designation	Series	Pressure	Ø	G	L1	L2	i	S1	S3
VR 04 LL	LL	PN 100	4	R 1/8" K	26	16	8	11	10
VR 05 LL	LL	PN 100	5	R 1/8" K	26	14,5	8	11	12
VR 06 LL	LL	PN 100	6	R 1/8" K	26	14,5	8	11	12
VR 06 LL 1/4	LL	PN 100	6	R 1/4" K	26	14,5	12	12	12
VR 08 LL	LL	PN 100	8	R 1/8" K	28	16,5	8	12	14
VR 08 LL 1/4	LL	PN 100	8	R 1/4" K	33	21,5	13	17	14
VR 10 LL	LL	PN 100	10	R 1/4" K	32	20,5	12	14	17
VR 12 LL	LL	PN 100	12	R 1/4" K	32	20	12	17	19
VR 12 LL 3/8	LL	PN 100	12	R 3/8" K	32	20	14	19	19

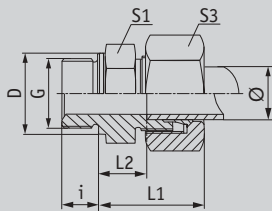
Construction Series: LL = Very Light – L = Light – S = Heavy — Ø = Tube Outside Diameter — PN = Nominal Pressure — PB = Maximal Working Pressure

VR

Straight Male Stud Couplings

Thread G: BSP parallel
(DIN ISO 228)

Article category 5204



Designation	Series	Pressure	Ø	G	L1	L2	i	D	S1	S3
VR NW 04 HL	L	PN 315	6	G 1/8"	23	8,5	8	14	14	14
VR NW 04 HL 1/4	L	PN 315	6	G 1/4"	24,5	10	12	18	19	14
VR NW 04 HL 3/8	L	PN 315	6	G 3/8"	26	11,5	12	22	22	14
VR NW 04 HL 1/2	L	PN 315	6	G 1/2"	26,5	12	14	26	27	14
VR NW 06 HL	L	PN 315	8	G 1/4"	25	10	12	18	19	17
VR NW 06 HL 1/8	L	PN 315	8	G 1/8"	24	9	8	14	14	17
VR NW 06 HL 3/8	L	PN 315	8	G 3/8"	26,5	11,5	12	22	22	17
VR NW 06 HL 1/2	L	PN 315	8	G 1/2"	27	12	14	26	27	17
VR NW 08 HL	L	PN 315	10	G 1/4"	26	11	12	18	19	19
VR NW 08 HL 1/8	L	PN 315	10	G 1/8"	25,5	10,5	8	14	17	19
VR NW 08 HL 3/8	L	PN 315	10	G 3/8"	27,5	12,5	12	22	22	19
VR NW 08 HL 1/2	L	PN 315	10	G 1/2"	28	13	14	26	27	19
VR NW 10 HL	L	PN 315	12	G 3/8"	27	12,5	12	22	22	22
VR NW 10 HL 1/8	L	PN 315	12	G 1/8"	27	12	8	14	17	22
VR NW 10 HL 1/4	L	PN 315	12	G 1/4"	26,5	12	12	18	19	22
VR NW 10 HL 1/2	L	PN 315	12	G 1/2"	27,5	13	14	26	27	22
VR NW 10 HL 3/4	L	PN 315	12	G 3/4"	28,5	14	16	32	32	22
VR NW 13 HL	L	PN 315	15	G 1/2"	29	14	14	26	27	27
VR NW 13 HL 1/4	L	PN 315	15	G 1/4"	29	14	12	18	19	27
VR NW 13 HL 3/8	L	PN 315	15	G 3/8"	29	14	12	22	24	27
VR NW 13 HL 3/4	L	PN 315	15	G 3/4"	30	15	16	32	32	27
VR NW 16 HL	L	PN 315	18	G 1/2"	31	14,5	14	26	27	32
VR NW 16 HL 3/8	L	PN 315	18	G 3/8"	30,5	14	12	22	27	32
VR NW 16 HL 3/4	L	PN 315	18	G 3/4"	31	14,5	16	32	32	32
VR NW 16 HL 1	L	PN 315	18	G 1"	31	17,5	18	39	41	32

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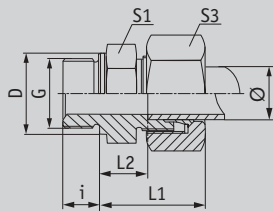
Construction Series: LL = Very Light – L = Light – S = Heavy — Ø = Tube Outside Diameter — PN = Nominal Pressure — PB = Maximal Working Pressure

VR

Straight Male Stud Couplings

Thread G: BSP parallel
(DIN ISO 228)

Article category 5204, 5304



Designation	Series	Pressure	Ø	G	L1	L2	i	D	S1	S3
<--										
VR NW 20 HL	L	PN 160	22	G 3/4"	33	16,5	16	32	32	36
VR NW 20 HL 1/2	L	PN 160	22	G 1/2"	33	16,5	14	26	32	36
VR NW 20 HL 1	L	PN 160	22	G 1"	34	17,5	18	39	41	36
VR NW 25 HL	L	PN 160	28	G 1"	34	17,5	18	39	41	41
VR NW 25 HL 1/2	L	PN 160	28	G 1/2"	47	26,5	14	26	41	41
VR NW 25 HL 3/4	L	PN 160	28	G 3/4"	34	17,5	16	32	41	41
VR NW 25 HL 1 1/4	L	PN 160	28	G 1 1/4"	39	17,5	20	49	50	41
VR NW 32 HL	L	PN 160	35	G 1 1/4"	39	17,5	20	49	50	50
VR NW 32 HL 3/4	L	PN 160	35	G 3/4"	39	17,5	16	32	41	50
VR NW 32 HL 1	L	PN 160	35	G 1"	40	18,5	18	39	50	50
VR NW 32 HL 1 1/2	L	PN 160	35	G 1 1/2"	40	19	22	55	55	50
VR NW 40 HL	L	PN 160	42	G 1 1/2"	42	19	22	55	55	60
VR NW 40 HL 1 1/4	L	PN 160	42	G 1 1/4"	42	17,5	20	49	50	60
VR NW 03 HS	S	PB 630	6	G 1/4"	28	13	12	18	19	17
VR NW 03 HS 1/8	S	PB 630	6	G 1/8"	28	12	8	14	17	17
VR NW 03 HS 3/8	S	PB 630	6	G 3/8"	32,5	17,5	12	22	22	17
VR NW 03 HS 1/2	S	PB 630	6	G 1/2"	33	18	14	26	27	17
VR NW 04 HS	S	PB 630	8	G 1/4"	30	15	12	18	19	19
VR NW 04 HS 3/8	S	PB 630	8	G 3/8"	30,5	15,5	12	22	22	19
VR NW 04 HS 1/2	S	PB 630	8	G 1/2"	34	17,5	14	26	27	19
VR NW 06 HS	S	PB 630	10	G 3/8"	31	15	12	22	22	22
VR NW 06 HS 1/4	S	PB 630	10	G 1/4"	30,5	14,5	12	18	22	22
VR NW 06 HS 1/2	S	PB 630	10	G 1/2"	33,5	17,5	14	26	27	22
VR NW 08 HS	S	PB 630	12	G 3/8"	33	17	12	22	22	24
VR NW 08 HS 1/4	S	PB 630	12	G 1/4"	32,5	16,5	12	18	22	24
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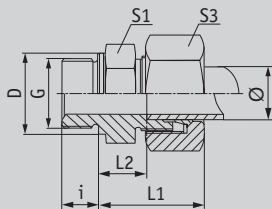
Construction Series: LL = Very Light – L = Light – S = Heavy — Ø = Tube Outside Diameter — PN = Nominal Pressure — PB = Maximal Working Pressure

VR

Straight Male Stud Couplings

Thread G: BSP parallel
(DIN ISO 228)

Article category 5304



Designation	Series	Pressure	Ø	G	L1	L2	i	D	S1	S3
<--										
VR NW 08 HS 1/2	S	PB 630	12	G 1/2"	33,5	17,5	14	26	27	24
VR NW 08 HS 3/4	S	PB 630	12	G 3/4"	35	19	16	32	32	24
VR NW 10 HS	S	PB 630	14	G 1/2"	37	19	14	26	27	27
VR NW 10 HS 3/8	S	PB 630	14	G 3/8"	36,5	18,5	12	22	24	27
VR NW 10 HS 3/4	S	PB 630	14	G 3/4"	36,5	18,5	16	32	32	27
VR NW 13 HS	S	PB 400	16	G 1/2"	37	18,5	14	26	27	30
VR NW 13 HS 1/4	S	PB 400	16	G 1/4"	37	18,5	12	22	22	30
VR NW 13 HS 3/8	S	PB 400	16	G 3/8"	37	18,5	12	22	24	30
VR NW 13 HS 3/4	S	PB 400	16	G 3/4"	39	20,5	16	32	32	30
VR NW 16 HS	S	PB 400	20	G 3/4"	44	22,5	18	39	41	36
VR NW 16 HS 1/2	S	PB 400	20	G 1/2"	44	22,5	14	26	27	36
VR NW 16 HS 1	S	PB 400	20	G 1"	42	17,5	18	39	41	36
VR NW 20 HS	S	PB 400	25	G 1"	47	23	18	39	41	46
VR NW 20 HS 1/2	S	PB 400	25	G 1/2"	47	26,5	14	26	41	46
VR NW 20 HS 3/4	S	PB 400	25	G 3/4"	47	23	16	32	41	46
VR NW 20 HS 1 1/4	S	PB 400	25	G 1"1/4	47	23	20	49	50	46
VR NW 25 HS	S	PB 250	30	G 1"1/4	50	23,5	20	49	50	50
VR NW 25 HS 3/4	S	PB 250	30	G 3/4"	50	23,5	16	32	41	50
VR NW 25 HS 1	S	PB 250	30	G 1"	50	23,5	18	39	46	50
VR NW 32 HS	S	PB 250	38	G 1"1/2	57	26	22	55	55	60
VR NW 32 HS 1	S	PB 250	38	G 1"	57	26	18	39	55	60
VR NW 32 HS 1 1/4	S	PB 250	38	G 1"1/4	57	26	20	49	55	60

Construction Series: LL = Very Light – L = Light – S = Heavy — Ø = Tube Outside Diameter — PN = Nominal Pressure — PB = Maximal Working Pressure

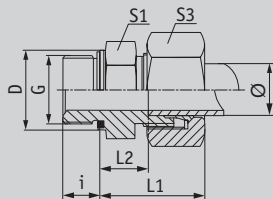
VR-ED

Straight Male Stud Couplings

with Captive Seal (Perbunan)

Thread G: BSP parallel (DIN ISO 228))

Article category 5204



Designation	Series	Pressure	Ø	G	L1	L2	i	D	S1	S3
VR NW 04 HL ED	L	PN 315	6	G 1/8"	23	8,5	8	14	14	14
VR NW 04 HL 1/4 ED	L	PN 315	6	G 1/4"	25	10	12	18,7	19	14
VR NW 06 HL ED	L	PN 315	8	G 1/4"	25	10	12	18,7	19	17
VR NW 06 HL 1/8 ED	L	PN 315	8	G 1/8"	24,5	9,5	8	14	14	17
VR NW 06 HL 3/8 ED	L	PN 315	8	G 3/8"	26,5	11,5	12	22	22	17
VR NW 08 HL ED	L	PN 315	10	G 1/4"	26	11	12	18,7	19	19
VR NW 08 HL 3/8 ED	L	PN 315	10	G 3/8"	27,5	12,5	12	22	22	19
VR NW 08 HL 1/2 ED	L	PN 315	10	G 1/2"	28	13	14	26,7	27	19
VR NW 10 HL ED	L	PN 315	12	G 3/8"	27,5	12,5	12	22	22	22
VR NW 10 HL 1/4 ED	L	PN 315	12	G 1/4"	27,5	12,5	12	18,7	22	22
VR NW 10 HL 1/2 ED	L	PN 315	12	G 1/2"	27,5	13	14	26,7	27	22
VR NW 13 HL ED	L	PN 315	15	G 1/2"	29	14	14	26,7	27	27
VR NW 13 HL 3/8 ED	L	PN 315	15	G 3/8"	28,5	13,6	12	22	27	27
VR NW 13 HL 3/4 ED	L	PN 315	15	G 3/4"	30	15	16	32	32	27
VR NW 16 HL ED	L	PN 315	18	G 1/2"	31	14,5	14	26,7	27	32
VR NW 16 HL 3/4 ED	L	PN 315	18	G 3/4"	31	14,5	16	32	32	32
VR NW 20 HL ED	L	PN 160	22	G 3/4"	33	16,5	16	32	32	36
VR NW 25 HL ED	L	PN 160	28	G 1"	34	17,5	18	39,7	41	41
VR NW 32 HL ED	L	PN 160	35	G 1"1/4	39	17,5	20	49,7	50	50
VR NW 40 HL ED	L	PN 160	42	G 1"1/2	42	19	22	55	55	60
VR NW 40 HL 1 1/4 ED	L	PN 160	42	G 1"1/4	42	19	20	50	55	60

Construction Series: LL = Very Light – L = Light – S = Heavy — Ø = Tube Outside Diameter — PN = Nominal Pressure — PB = Maximal Working Pressure

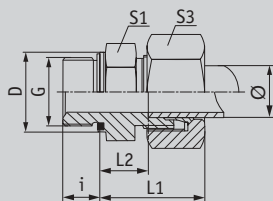
VR-ED

Straight Male Stud Couplings

with Captive Seal (Perbunan)

Thread G: BSP parallel

Article category 5304



Designation	Series	Pressure	Ø	G	L1	L2	i	D	S1	S3
VR NW 03 HS ED	S	PN 630	6	G 1/4"	28	13	12	18,7	19	17
VR NW 04 HS ED	S	PN 630	8	G 1/4"	30	15	12	18,7	19	19
VR NW 04 HS 3/8 ED	S	PN 630	8	G 3/8"	30,5	15,5	12	22	22	19
VR NW 06 HS ED	S	PN 630	10	G 3/8"	31	15	12	22	22	22
VR NW 06 HS 1/4 ED	S	PN 630	10	G 1/4"	30,5	14,5	12	18,7	22	22
VR NW 06 HS 1/2 ED	S	PN 630	10	G 1/2"	33,5	17,5	14	26,7	27	22
VR NW 08 HS ED	S	PN 630	12	G 3/8"	33	17	12	22	22	24
VR NW 08 HS 1/4 ED	S	PN 630	12	G 1/4"	32,5	16,5	12	19	22	24
VR NW 08 HS 1/2 ED	S	PN 630	12	G 1/2"	33,5	17,5	14	27	27	24
VR NW 10 HS ED	S	PN 630	14	G 1/2"	37	19	14	26,7	27	27
VR NW 10 HS 3/4 ED	S	PN 630	14	G 3/4"	39	21	16	32	32	27
VR NW 13 HS ED	S	PN 400	16	G 1/2"	37	18,5	14	26,7	27	30
VR NW 13 HS 3/8 ED	S	PN 400	16	G 3/8"	36,5	18	12	22	27	30
VR NW 13 HS 3/4 ED	S	PN 400	16	G 3/4"	39	20,5	16	32	32	30
VR NW 16 HS ED	S	PN 400	20	G 3/4"	42	20,5	16	32	32	36
VR NW 16 HS 1 ED	S	PN 400	20	G 1"	42	20,5	18	39,7	41	36
VR NW 20 HS ED	S	PN 400	25	G 1"	47	23	18	39,7	41	46
VR NW 20 HS 3/4 ED	S	PN 400	25	G 3/4"	47	23	16	32	41	46
VR NW 25 HS ED	S	PN 400	30	G 1 1/4"	50	23,5	20	49,7	50	50
VR NW 32 HS ED	S	PN 315	38	G 1 1/2"	57	26	22	55	55	60

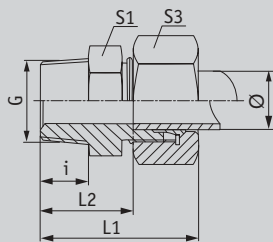
Construction Series: LL = Very Light – L = Light – S = Heavy — Ø = Tube Outside Diameter — PN = Nominal Pressure — PB = Maximal Working Pressure

VRK

Straight Male Stud Couplings

Thread G: BSP taper (DIN 3858)

Article category 5204, 5304



Designation	Series	Pressure	Ø	G	L1	L2	i	S1	S3
VRK NW 04 HL	L	PN 315	6	R 1/8" K	32	17	10	12	14
VRK NW 04 HL 1/4	L	PN 315	6	R 1/4" K	36	21	13	17	14
VRK NW 06 HL	L	PN 315	8	R 1/4" K	36	21	13	17	17
VRK NW 06 HL 1/8	L	PN 315	8	R 1/8" K	31	16	8	14	17
VRK NW 06 HL 3/8	L	PN 315	8	R 3/8" K	36	21	12	19	17
VRK NW 06 HL 1/2	L	PN 315	8	R 1/2" K	38	23	14	22	17
VRK NW 08 HL	L	PN 315	10	R 1/4" K	37	22	13	17	19
VRK NW 08 HL 3/8	L	PN 315	10	R 3/8" K	37	22	12	19	19
VRK NW 08 HL 1/2	L	PN 315	10	R 1/2" K	39	24	14	22	19
VRK NW 10 HL	L	PN 315	12	R 3/8" K	38	23	13	19	22
VRK NW 10 HL 1/4	L	PN 315	12	R 1/4" K	38	23	13	19	22
VRK NW 10 HL 1/2	L	PN 315	12	R 1/2" K	41	26	16	24	22
VRK NW 13 HL	L	PN 315	15	R 1/2" K	42	27	16	24	27
VRK NW 13 HL 3/8	L	PN 315	15	R 3/8" K	39	24	13	24	27
VRK NW 16 HL	L	PN 315	18	R 1/2" K	44	27,5	16	27	32
VRK NW 20 HL	L	PN 160	22	R 3/4" K	48	31,5	18	32	36
VRK NW 20 HL 1/2	L	PN 160	22	R 1/2" K	46	27,5	16	27	36
VRK NW 03 HS	S	PB 630	6	R 1/4" K	41	26	13	17	17
VRK NW 04 HS	S	PB 630	8	R 1/4" K	41	26	13	17	19
VRK NW 06 HS	S	PB 630	10	R 3/8" K	42	25,5	13	19	22
VRK NW 06 HS 1/4	S	PB 630	10	R 1/4" K	41	26	13	17	22
VRK NW 08 HS	S	PB 630	12	R 3/8" K	44	27,5	13	22	24
VRK NW 10 HS	S	PB 630	14	R 1/2" K	50	32	16	24	27
VRK NW 13 HS 3/8	S	PB 630	16	R 3/8" K	50	30	13	27	30

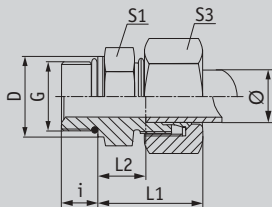
Construction Series: LL = Very Light – L = Light – S = Heavy — Ø = Tube Outside Diameter — PN = Nominal Pressure — PB = Maximal Working Pressure

VU

Straight Male Stud Couplings with O-Ring

Thread G: UNF and UN

Article category 5204



Designation	Series	Pressure	Ø	G	L1	L2	i	D	S1	S3	O-Ring
VU NW 04 HL 7/16	L	PN 315	6	7/16"-20UNF	23	8,5	9	17	14	16	8,92x1,83
VU NW 04 HL 1/2	L	PN 315	6	1/2"-20UNF	23	8,5	9	17	17	17	10,52x1,83
VU NW 06 HL 7/16	L	PN 315	8	7/16"-20UNF	28	13	9	14,4	17	17	8,92x1,83
VU NW 06 HL 1/2	L	PN 315	8	1/2"-20UNF	25	10	9	17	17	17	10,52x1,83
VU NW 06 HL 9/16	L	PN 315	8	9/16"-18UNF	25	10	10	19	17	17	11,90x1,98
VU NW 08 HL 7/16	L	PN 315	10	7/16"-20UNF	29	14	9	14,4	17	19	8,92x1,83
VU NW 08 HL 9/16	L	PN 315	10	9/16"-18UNF	26	11	10	19	19	19	16,36x2,20
VU NW 08 HL 3/4	L	PN 315	10	3/4"-16UNF	26	11	11	22,3	24	19	16,36x2,20
VU NW 10 HL 9/16	L	PN 315	12	9/16"-18UNF	27	12	10	17,6	19	22	11,90x1,98
VU NW 10 HL 3/4	L	PN 315	12	3/4"-16UNF	28	13	11	22,3	24	22	16,36x2,20
VU NW 10 HL 7/8	L	PN 315	12	7/8"-14UNF	29	14	13	25,5	27	22	19,18x2,46
VU NW 13 HL 9/16	L	PN 315	15	9/16"-18UNF	29	14	10	17,6	27	27	11,90x1,98
VU NW 13 HL 3/4	L	PN 315	15	3/4"-16UNF	29	14	11	22,3	24	27	16,36x2,20
VU NW 13 HL 7/8	L	PN 315	15	7/8"-14UNF	30,5	15,5	13	25,5	27	27	19,18x2,46
VU NW 16 HL 3/4	L	PN 315	18	3/4"-16UNF	29,5	14,5	11	22,3	27	32	16,36x2,20
VU NW 16 HL 7/8	L	PN 315	18	7/8"-14UNF	29,5	14,5	13	25,5	27	32	19,18x2,46
VU NW 16 HL 1 1/16	L	PN 315	18	1 1/16-12UN	29,5	14,5	15	31,9	32	32	23,47x2,95
VU NW 20 HL 7/8	L	PN 160	22	7/8"-14UNF	33	16,5	13	25,5	32	36	19,18x2,46
VU NW 20 HL 1 1/16	L	PN 160	22	1 1/16-12UN	33	16,5	15	31,9	32	36	23,47x2,95
VU NW 20 HL 1 5/16	L	PN 160	22	1 5/16-12UN	34	17,5	15	38,2	41	36	29,74x2,95
VU NW 25 HL 7/8	L	PN 160	22	7/8"-14UNF	34	17,5	14	25,5	32	41	19,18x2,46
VU NW 25 HL 1 1/16	L	PN 160	28	1 1/16-12UN	34	17,5	15	31,9	41	41	23,47x2,95
VU NW 25 HL 1 5/16	L	PN 160	28	1 5/16-12UN	34	17,5	15	41	41	38,2	29,74x2,95
VU NW 32 HL 1 5/16	L	PN 160	35	1 5/16-12UN	39	17,5	15	46	50	38,2	29,74x2,95
VU NW 32 HL 1 5/8	L	PN 160	35	1 5/8-12UN	39	17,5	15	50	50	48	37,46x3,00
VU NW 40 HL 1 5/8	L	PN 160	35	1 5/8-12UN	42	19	15	55	60	48	37,46x3,00
VU NW 40 HL 1 7/8	L	PN 160	42	1 7/8-12UN	42	19	15	55	60	55	43,69x3,00

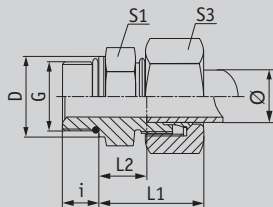
Construction Series: LL = Very Light – L = Light – S = Heavy — Ø = Tube Outside Diameter — PN = Nominal Pressure — PB = Maximal Working Pressure

VU

Straight Male Stud Couplings with O-Ring

Thread G: UNF and UN

Article category 5304



Designation	Series	Pressure	Ø	G	L1	L2	i	D	S1	S3	O-Ring
VU NW 03 HS 7/16	S	PN 630	6	7/16"-20UNF	30	15	9	17	17	16	8,92x1,83
VU NW 04 HS 7/16	S	PN 630	8	7/16"-20UNF	30	15	9	14,4	17	19	8,92x1,83
VU NW 04 HS 1/2	S	PN 630	8	1/2"-20UNF	30	15	9	17	19	17	10,52x1,83
VU NW 04 HS 9/16	S	PN 630	8	9/16"-18UNF	30	15	10	17,6	19	17	11,90x1,98
VU NW 06 HS 9/16	S	PN 630	10	9/16"-18UNF	31	14,5	10	17,6	19	22	11,90x1,98
VU NW 06 HS 3/4	S	PN 630	10	3/4"-16UNF	31	14,5	11	22,3	24	22	16,36x2,20
VU NW 08 HS 9/16	S	PN 630	12	9/16"-18UNF	31	14,5	10	17,6	22	24	11,90x1,98
VU NW 08 HS 3/4	S	PN 630	12	3/4"-16UNF	34	17,5	11	22,3	24	24	16,36x2,20
VU NW 08 HS 7/8	S	PN 630	12	7/8"-14UNF	37	18,5	13	25,5	27	24	19,18x2,46
VU NW 10 HS 3/4	S	PN 630	14	3/4"-16UNF	34	16	11	24	27	22,3	16,36x2,20
VU NW 13 HS 3/4	S	PN 400	16	3/4"-16UNF	34	15,5	11	22,3	24	30	16,36x2,20
VU NW 13 HS 7/8	S	PN 400	16	7/8"-14UNF	37	18,5	13	25,5	27	30	19,18x2,46
VU NW 13 HS 1 1/16	S	PN 400	16	1"1/16x12UN	37	18,5	15	31,9	32	30	23,47x2,95
VU NW 16 HS 3/4	S	PN 400	20	3/4"-16UNF	42	20,5	11	22,3	32	36	16,36x2,20
VU NW 16 HS 7/8	S	PN 400	20	7/8"-14UNF	42	20,5	13	25,5	32	36	19,18x2,46
VU NW 16 HS 1 1/16	S	PN 400	20	1"1/16-12UN	42	20,5	15	31,9	32	36	23,47x2,95
VU NW 20 HS 1 1/16	S	PN 400	25	1"1/16-12UN	47	23	15	31,9	41	46	23,47x2,95
VU NW 20 HS 1 5/16	S	PN 400	25	1"5/16-12UN	47	23	15	38,2	41	46	29,74x2,95
VU NW 25 HS 1 5/16	S	PN 400	30	1"5/16-12UN	50	23,5	15	38,2	46	50	29,74x2,95
VU NW 25 HS 1 5/8	S	PN 400	30	1"5/8-12UN	50	23,5	15	47,7	50	50	37,46x3,00
VU NW 32 HS 1 5/8	S	PN 315	38	1"5/8-12UN	42	19	15	54	55	60	37,46x3,00
VU NW 32 HS 1 7/8	S	PN 315	38	1"7/8-12UN	57	26	15	55	60	55	43,69x3,00

Construction Series: LL = Very Light – L = Light – S = Heavy — Ø = Tube Outside Diameter — PN = Nominal Pressure — PB = Maximal Working Pressure

WM

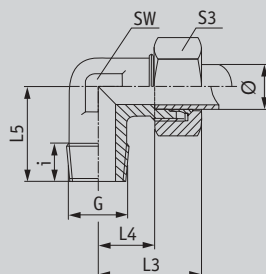
Male Stud Elbows

Stud Stanpipe according
DIN 3903

Sealing Typ: C according DIN 3852

Thread G: metric taper (DIN 158)

Article category 5106,5205, 5305



Designation	Series	Pressure	Ø	G	L3	L4	L5	i	SW	S3
WM 04 LL	LL	PN 100	4	M 8x1 K	21	11	17	7,5	9	10
WM 04 LL 6	LL	PN 100	4	M 6x1 K	21	11	17	7	9	10
WM 05 LL	LL	PN 100	5	M 8x1 K	21	9,5	17	8	11	12
WM 06 LL	LL	PN 100	6	M 10x1 K	21	9,5	17	9	11	12
WM 06 LL 6	LL	PN 100	6	M 6x1 K	21	9,5	17	7	11	12
WM 06 LL 8	LL	PN 100	6	M 8x1 K	21	9,5	17	8	11	12
WM 08 LL	LL	PN 100	8	M 10x1 K	23	11,5	20	10	12	14
WM NW 04 HL	L	PN 315	6	M 10x1 K	27	12	20	8	12	14
WM NW 04 HL 12	L	PN 315	6	M 12x1,5 K	27	12	22	12	12	14
WM NW 06 HL	L	PN 315	8	M 12x1,5 K	29	14	26	12	12	17
WM NW 08 HL	L	PN 315	10	M 14x1,5 K	30	15	27	11,5	14	19
WM NW 08 HL 16	L	PN 315	10	M 16x1,5 K	30	15	28	11,5	14	19
WM NW 10 HL	L	PN 315	12	M 16x1,5 K	32	17	28	11,5	17	22
WM NW 13 HL	L	PN 315	15	M 18x1,5 K	36	21	32	13,5	19	27
WM NW 16 HL	L	PN 315	18	M 22x1,5 K	40	23,5	36	15	24	32
WM NW 03 HS	S	PN 400	6	M 12x1,5 K	31	16	26	12	12	17
WM NW 04 HS	S	PN 400	8	M 14x1,5 K	32	17	27	12	14	19
WM NW 06 HS	S	PN 400	10	M 16x1,5 K	34	17,5	28	12	17	22
WM NW 08 HS	S	PN 400	12	M 18x1,5 K	38	21,5	28	12	17	24
WM NW 10 HS	S	PN 400	14	M 20x1,5 K	40	22	32	14	19	27
WM NW 13 HS	S	PN 400	16	M 22x1,5 K	43	24,5	32	14	24	30

Construction Series: LL = Very Light – L = Light – S = Heavy — Ø = Tube Outside Diameter — PN = Nominal Pressure — PB = Maximal Working Pressure

WM

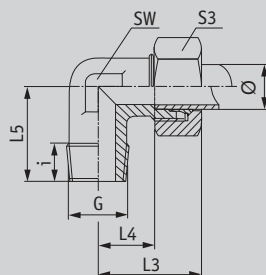
Male Stud Elbows

Stud Stanpipe according to DIN 3903

Sealing Type: C according to DIN 3852

Thread G: metric parallel

Article category 5205



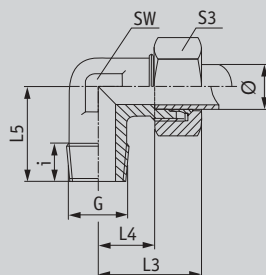
Designation	Series Pressure		Ø	G	L3	L4	L5	i	D	SW	S3
WM NW 20 HL	L	PN 160	22	M 26x1,5	44	27,5	26	16	31	27	36
WM NW 25 HL	L	PN 160	28	M 33x2	47	30,5	30	18	39	36	41
WM NW 32 HL	L	PN 160	35	M 42x2	56	34,5	34	20	49	41	50
WM NW 40 HL	L	PN 160	42	M 48x2	63	40	39	22	55	50	60
WM NW 16 HS	S	PB 400	20	M 27x2	48	26,5	26	16	32	27	36
WM NW 20 HS	S	PB 400	25	M 33x2	54	30	30	18	39	36	46
WM NW 25 HS	S	PB 250	30	M 42x2	62	35,5	34	20	49	41	50
WM NW 32 HS	S	PB 250	38	M 48x2	72	41	39	22	55	50	60

Construction Series: LL = Very Light – L = Light – S = Heavy — Ø = Tube Outside Diameter — PN = Nominal Pressure — PB = Maximal Working Pressure

WN

Male Stud Elbows

Thread G: NPT
(ANSI/ASME B1-20.1.1983)
Article category 5205



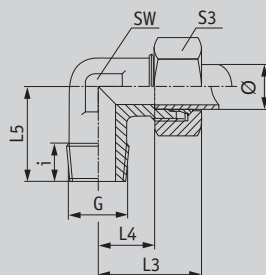
Designation	Series	Pressure	Ø	G	L3	L4	L5	i	SW	S3
WN 04 LL	LL	PN 100	4	1/8" NPT	21	11	17	7	9	10
WN 05 LL	LL	PN 100	4	1/8" NPT	21	11	18	8	11	10
WN 06 LL	LL	PN 100	6	1/8" NPT	21	9,5	17	10	9	12
WN 08 LL	LL	PN 100	8	1/8" NPT	21	9,5	17	10	12	14
WN NW 04 HL	L	PN 315	6	1/8" NPT	27	12	20	10	12	14
WN NW 04 HL 1/4	L	PN 315	6	1/4" NPT	29	14	26	12	12	14
WN NW 04 HL 1/2	L	PN 315	6	1/2" NPT	38	23	34	17	19	14
WN NW 06 HL	L	PN 315	8	1/4" NPT	29	14	26	12	12	17
WN NW 06 HL 1/2	L	PN 315	8	1/2" NPT	30	15	26	17,5	12	17
WN NW 08 HL	L	PN 315	10	1/4" NPT	30	15	27	14	14	19
WN NW 10 HL	L	PN 315	12	3/8" NPT	32	17	28	12,5	17	22
WN NW 10 HL 1/4	L	PN 315	12	1/4" NPT	32	17	28	14	17	22
WN NW 10 HL 1/2	L	PN 315	12	1/2" NPT	38	23	34	19	19	22
WN NW 13 HL	L	PN 315	15	1/2" NPT	36	21	34	18,5	19	27
WN NW 13 HL 3/8	L	PN 315	15	3/8" NPT	36	21	34	13	19	27
WN NW 16 HL	L	PN 315	18	1/2" NPT	40	23,5	36	20	24	32
WN NW 16 HL 3/4	L	PN 315	18	3/4" NPT	40	23,5	40	18,5	24	32
WN NW 20 HL	L	PN 160	22	3/4" NPT	44	27,5	42	18,5	27	36
WN NW 25 HL	L	PN 160	28	1" NPT	47	30,5	48	24	36	41
WN NW 32 HL	L	PN 160	35	1 1/4" NPT	56	34,5	54	25,5	41	50
WN NW 40 HL	L	PN 160	42	1 1/2" NPT	63	40	61	26	50	60

Construction Series: LL = Very Light – L = Light – S = Heavy — Ø = Tube Outside Diameter — PN = Nominal Pressure — PB = Maximal Working Pressure

WN

Male Stud Elbows

Thread G: NPT
(ANSI/ASME B1-20.1.1983)
Article category 5305



Designation	Series	Pressure	Ø	G	L3	L4	L5	i	SW	S3
WN NW 03 HS	S	PN 630	6	1/4" NPT	31	16	26	12	12	17
WN NW 04 HS	S	PN 630	8	1/4" NPT	32	17	27	15	14	19
WN NW 06 HS	S	PN 630	10	3/8" NPT	34	17,5	28	12	17	22
WN NW 08 HS	S	PN 630	12	3/8" NPT	38	21,5	28	12,5	17	24
WN NW 10 HS	S	PN 630	14	1/2" NPT	40	22	34	18	19	27
WN NW 13 HS	S	PN 400	16	1/2" NPT	43	24,5	36	19	24	30
WN NW 13 HS 3/4	S	PN 400	16	3/4" NPT	43	25	40	20	24	30
WN NW 16 HS	S	PN 400	20	3/4" NPT	48	26,6	42	20	27	36
WN NW 20 HS	S	PN 400	25	1" NPT	54	30	48	24	36	46
WN NW 25 HS	S	PN 400	30	1 1/4" NPT	62	35,5	54	25,5	41	50
WN NW 32 HS	S	PN 315	38	1 1/2" NPT	72	41	61	26	50	60

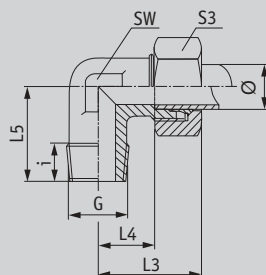
Construction Series: LL = Very Light – L = Light – S = Heavy — Ø = Tube Outside Diameter — PN = Nominal Pressure — PB = Maximal Working Pressure

WR

Male Stud Elbows

Thread G: BSP taper (DIN 3858)

Article category 5108



Designation	Series	Pressure	Ø	G	L3	L4	L5	i	SW	S3
WR 04 LL	LL	PN 100	4	R 1/8" K	21	11	18	8	11	10
WR 05 LL	LL	PN 100	5	R 1/8" K	22	10	17	8	11	12
WR 06 LL	LL	PN 100	6	R 1/8" K	22	10	17	8	11	12
WR 08 LL	LL	PN 100	8	R 1/8" K	23	11,5	20	8	12	14
WR 10 LL	LL	PN 100	10	R 1/4" K	27	15,5	26	12	14	17
WR 12 LL	LL	PN 100	12	R 1/4" K	27	15	27	12	17	19

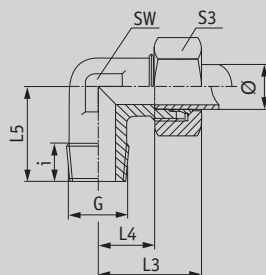
Construction Series: LL = Very Light – L = Light – S = Heavy — Ø = Tube Outside Diameter — PN = Nominal Pressure — PB = Maximal Working Pressure

WR

Male Stud Elbows

Thread G: BSP taper (DIN 3858)

Article category 5205



Designation	Series	Pressure	Ø	G	L3	L4	L5	i	SW	S3
WR NW 04 HL	L	PN 315	6	R 1/8" K	27	12	20	8	12	14
WR NW 04 HL 1/4	L	PN 315	6	R 1/4" K	29	14	26	12	12	14
WR NW 04 HL 3/8	L	PN 315	6	R 3/8" K	29	14	26	12	12	14
WR NW 06 HL	L	PN 315	8	R 1/4" K	29	14	26	12	12	17
WR NW 06 HL 1/8	L	PN 315	8	R 1/8" K	29	14	26	8	12	17
WR NW 06 HL 3/8	L	PN 315	8	R 3/8" K	34	19	28	12	17	17
WR NW 06 HL 1/2	L	PN 315	8	R 1/2" K	34	19	30	13	17	17
WR NW 08 HL	L	PN 315	10	R 1/4" K	30	15	27	12	14	19
WR NW 08 HL 1/8	L	PN 315	10	R 1/8" K	30	15	26	8	14	19
WR NW 08 HL 3/8	L	PN 315	10	R 3/8" K	32	17	28	12	17	19
WR NW 08 HL 1/2	L	PN 316	10	R 1/2" K	38	23	34	14	19	19
WR NW 10 HL	L	PN 315	12	R 3/8" K	32	17	28	12	17	22
WR NW 10 HL 1/4	L	PN 315	12	R 1/4" K	32	17	28	12	17	22
WR NW 10 HL 1/2	L	PN 315	12	R 1/2" K	38	23	34	14	19	22
WR NW 13 HL	L	PN 315	15	R 1/2" K	36	21	34	14	19	27
WR NW 13 HL 1/4	L	PN 315	15	R 1/4" K	36	21	30	12	19	27
WR NW 13 HL 3/8	L	PN 315	15	R 3/8" K	36	21	34	12	19	27
WR NW 16 HL	L	PN 315	18	R 1/2" K	40	23,5	36	14	24	32
WR NW 16 HL 3/8	L	PN 315	18	R 3/8" K	40	23,5	34	12	24	32
WR NW 03 HS	S	PN 400	6	R 1/4" K	31	16	26	12	12	17
WR NW 04 HS	S	PN 400	8	R 1/4" K	32	17	27	12	17	19
WR NW 06 HS	S	PN 400	10	R 3/8" K	34	17,5	28	12	17	22
WR NW 08 HS	S	PN 400	12	R 3/8" K	38	21,5	28	12	17	24
WR NW 08 HS 1/2	S	PN 400	12	R 1/2" K	40	23,5	34	14	19	24
WR NW 10 HS	S	PN 400	14	R 1/2" K	40	22	32	14	19	27
WR NW 13 HS	S	PN 400	16	R 1/2" K	43	24,5	32	14	24	30

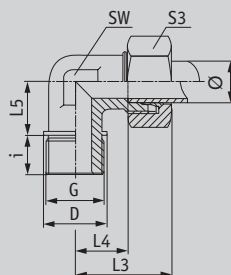
Construction Series: LL = Very Light – L = Light – S = Heavy — Ø = Tube Outside Diameter — PN = Nominal Pressure — PB = Maximal Working Pressure

WR

Male Stud Elbows

Thread G: BSP parallel
(DIN ISO 228)

Article category 5305



Designation	Series	Pressure	Ø	G	L3	L4	L5	i	D	SW	S3
WR NW 20 HL	L	PN 160	22	G 3/4"	44	27,5	26	16	32	27	36
WR NW 25 HL	L	PN 160	28	G 1"	47	30,5	30	18	39	36	41
WR NW 32 HL	L	PN 160	35	G 1 1/4	56	34,5	34	20	49	41	50
WR NW 40 HL	L	PN 160	42	G 1 1/2	63	40	39	22	55	50	60
WR NW 16 HS	S	PB 400	20	G 3/4"	48	26,5	26	16	32	27	36
WR NW 20 HS	S	PB 400	25	G 1"	54	30	30	18	39	36	41
WR NW 25 HS	S	PB 250	30	G 1 1/4	62	35,5	34	20	49	41	50
WR NW 32 HS	S	PB 250	38	G 1 1/2	72	41	39	22	55	50	60

Construction Series: LL = Very Light – L = Light – S = Heavy — Ø = Tube Outside Diameter — PN = Nominal Pressure — PB = Maximal Working Pressure

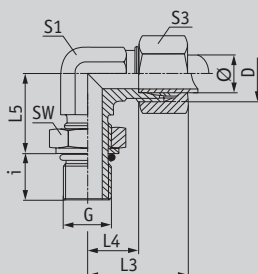
WU

Adjustable Stud Elbows

Sealing: O-Ring

Thread G: UNF

Article category 5205



Designation	Series	Pressure	Ø	D	G	L3	L4	L5	i	S1	S3	SW	O-Ring
WU NW 08 HL 9/16	L	PN 250	10	M 16x1,5	9/16-18 UNF	30	15	20	11	14	19	19	11,89x1,98
WU NW 06 HS 9/16	S	PN 630	10	M 18x1,5	9/16-18 UNF	34	17,5	20	11	17	22	19	11,89x1,98

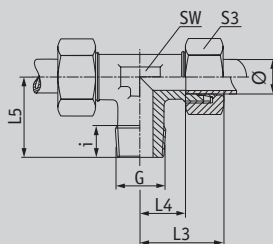
Construction Series: LL = Very Light – L = Light – S = Heavy — Ø = Tube Outside Diameter — PN = Nominal Pressure — PB = Maximal Working Pressure

TM

Male Stud Branch Tees

Thread G: metric taper (DIN 158)

Article category 5109, 5206, 5306



Designation	Series	Pressure	Ø	G	L3	L4	L5	i	SW	S3
TM 04 LL	LL	PN 100	4	M 8x1 K	21	11	7	8	9	10
TM 05 LL	LL	PN 100	4	M 8x1 K	21	11	17	8	9	10
TM 06 LL	LL	PN 100	6	M 10x1 K	21	9,5	17	8	9	12
TM 08 LL	LL	PN 100	8	M 10x1 K	23	11,5	20	8	12	14
TM NW 04 HL	L	PN 315	6	M 10x1 K	27	12	20	8	12	14
TM NW 06 HL	L	PN 315	8	M 12x1,5 K	29	14	26	12	12	17
TM NW 08 HL	L	PN 315	10	M 14x1,5 K	30	15	27	12	14	19
TM NW 10 HL	L	PN 315	12	M 16x1,5 K	32	17	28	12	17	22
TM NW 13 HL	L	PN 315	15	M 18x1,5 K	36	21	32	12	19	27
TM NW 16 HL	L	PN 315	18	M 22x1,5 K	40	23,5	36	14	24	32
TM NW 03 HS	S	PN 400	6	M 12x1,5 K	31	16	26	12	12	17
TM NW 04 HS	S	PN 400	8	M 14x1,5 K	32	17	27	12	14	19
TM NW 06 HS	S	PN 400	10	M 16x1,5 K	34	17,5	28	12	17	22
TM NW 08 HS	S	PN 400	12	M 18x1,5 K	38	21,5	28	12	19	24
TM NW 10 HS	S	PN 400	14	M 20x1,5 K	40	22	32	13,5	19	27
TM NW 13 HS	S	PN 400	16	M 22x1,5 K	43	24,5	32	11,5	24	30

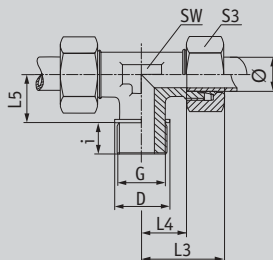
Construction Series: LL = Very Light – L = Light – S = Heavy — Ø = Tube Outside Diameter — PN = Nominal Pressure — PB = Maximal Working Pressure

TM

Male Stud Branch Tees

Thread G: metric parallel (DIN 13)

Article category 5306



Designation	Series	Pressure	Ø	G	L3	L4	L5	i	D	SW	S3
TM NW 20 HL	L	PN 160	22	M 26x1,5	44	27,5	26	16	31	27	36
TM NW 25 HL	L	PN 160	28	M 33x2	47	30,5	30	18	39	36	41
TM NW 32 HL	L	PN 160	35	M 42x2	56	34,5	34	20	49	41	50
TM NW 40 HL	L	PN 160	42	M 48x2	63	40	39	22	55	50	60
TM NW 16 HS	S	PB 400	20	M 27x2	48	26,5	26	16	32	27	36
TM NW 20 HS	S	PB 400	25	M 33x2	54	30	30	18	39	36	46
TM NW 25 HS	S	PB 250	30	M 42x2	62	35,5	34	20	49	41	50
TM NW 32 HS	S	PB 250	38	M 48x2	72	41	39	22	55	50	60

Construction Series: LL = Very Light – L = Light – S = Heavy — Ø = Tube Outside Diameter — PN = Nominal Pressure — PB = Maximal Working Pressure

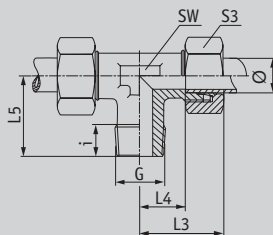
TN

Male Stud Branch Tees

Thread G: NPT

(ANSI/ASME B1-20.1.1983)

Article category 5110, 5206, 5306



Designation	Series	Pressure	Ø	G	L3	L4	L5	i	SW	S3
TN 04 LL	LL	PN 100	4	1/8" NPT	21	11	17	7,6	9	10
TN 05 LL	LL	PN 100	5	1/8" NPT	21	9,5	17	8	11	12
TN 06 LL	LL	PN 100	6	1/8" NPT	21	9,5	17	8	9	12
TN 08 LL	LL	PN 100	8	1/8" NPT	23	11,5	20	9,9	12	14
TN NW 04 HL	L	PN 315	6	1/8" NPT	27	12	20	9,9	12	14
TN NW 04 HL 1/4	L	PN 315	6	1/4" NPT	27	12	25	11,5	12	14
TN NW 06 HL	L	PN 315	8	1/4" NPT	29	14	26	11,5	12	17
TN NW 08 HL	L	PN 315	10	1/4" NPT	30	15	27	12,5	14	19
TN NW 10 HL	L	PN 315	12	3/8" NPT	32	17	28	11,5	17	22
TN NW 13 HL	L	PN 315	15	1/2" NPT	36	21	34	15,5	19	27
TN NW 16 HL	L	PN 315	18	1/2" NPT	40	23,5	36	19	24	32
TN NW 20 HL	L	PN 160	22	3/4" NPT	44	27,5	42	16	27	36
TN NW 25 HL	L	PN 160	28	1" NPT	47	30,5	48	22,5	36	41
TN NW 32 HL	L	PN 160	35	1 1/4 NFIT	56	34,5	54	24	41	50
TN NW 40 HL	L	PN 160	42	1 1/2 NPT	63	40	61	26	50	60
TN NW 03 HS	S	PN 630	6	1/4" NPT	31	16	26	12	12	17
TN NW 04 HS	S	PN 630	8	1/4" NPT	32	17	27	14	14	19
TN NW 06 HS	S	PN 630	10	3/8" NPT	34	17,5	28	12,5	17	22
TN NW 08 HS	S	PN 630	12	3/8" NPT	38	21,5	28	14,5	17	24
TN NW 10 HS	S	PN 630	14	1/2" NPT	40	22	34	15	19	27
TN NW 13 HS	S	PN 400	16	1/2" NPT	43	24,5	36	19	24	30
TN NW 16 HS	S	PN 400	20	3/4" NPT	48	26,5	42	19	27	36
TN NW 20 HS	S	PN 400	25	1" NPT	54	30	48	25	36	46
TN NW 25 HS	S	PN 400	30	1 1/4 NPT	62	35,5	54	24,5	41	50
TN NW 32 HS	S	PN 315	38	1 1/2 NPT	72	41	61	26	50	60

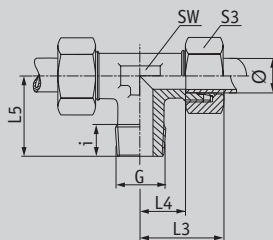
Construction Series: LL = Very Light – L = Light – S = Heavy — Ø = Tube Outside Diameter — PN = Nominal Pressure — PB = Maximal Working Pressure

TR

Male Stud Branch Tees

Thread G: BSP taper (DIN 3858)

Article category 5111, 5206, 5306



Designation	Series	Pressure	Ø	G	L3	L4	L5	i	SW	S3
TR 04 LL	LL	PN 100	4	R 1/8" K	21	11	17	7	9	10
TR 05 LL	LL	PN 100	5	R 1/8" K	21	9,5	17	7	11	12
TR 06 LL	LL	PN 100	6	R 1/8" K	21	9,5	17	8	9	12
TR 08 LL	LL	PN 100	8	R 1/8" K	23	11,5	20	9	12	14
TR NW 04 HL	L	PN 315	6	R 1/8" K	27	12	20	8	12	14
TR NW 06 HL	L	PN 315	8	R 1/4" K	29	14	26	12	12	17
TR NW 08 HL	L	PN 315	10	R 1/4" K	30	15	27	12	14	19
TR NW 10 HL	L	PN 315	12	R 3/8" K	32	17	28	12	17	22
TR NW 13 HL	L	PN 315	15	R 1/2" K	36	21	34	14	19	27
TR NW 16 HL	L	PN 315	18	R 1/2" K	40	23,5	36	14	24	32
TR NW 03 HS	S	PN 400	6	R 1/4" K	31	16	26	12	12	17
TR NW 04 HS	S	PN 400	8	R 1/4" K	32	17	27	12	14	19
TR NW 06 HS	S	PN 400	10	R 3/8" K	34	17,5	28	12	17	22
TR NW 08 HS	S	PN 400	12	R 3/8" K	38	21,5	28	13,5	17	24
TR NW 10 HS	S	PN 400	14	R 1/2" K	40	22	32	14	19	27
TR NW 13 HS	S	PN 400	16	R 1/2" K	43	24,5	32	15,5	24	30

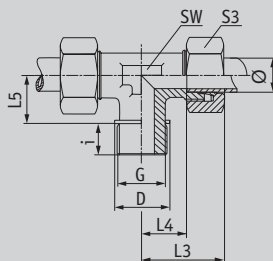
Construction Series: LL = Very Light – L = Light – S = Heavy — Ø = Tube Outside Diameter — PN = Nominal Pressure — PB = Maximal Working Pressure

TR

Male Stud Branch Tees

Thread G: BSP parallel
(DIN ISO 288)

Article category 5206, 5306



Designation	Series	Pressure	Ø	G	L3	L4	L5	i	D	SW	S3
TR NW 20 HL	L	PN 160	22	G 3/4"	44	27,5	26	16	32	27	36
TR NW 25 HL	L	PN 160	28	G 1"	47	30,5	30	18	39	36	41
TR NW 32 HL	L	PN 160	35	G 1 1/4	56	34,5	34	20	49	41	50
TR NW 40 HL	L	PN 160	42	G 1 1/2	63	40	39	22	55	50	60
TR NW 16 HS	S	PB 400	20	G 3/4"	48	26,5	26	16	32	27	36
TR NW 20 HS	S	PB 400	25	G 1"	54	30	30	18	39	36	46
TR NW 25 HS	S	PB 250	30	G 1 1/4	62	35,5	34	20	49	41	50
TR NW 32 HS	S	PB 250	38	G 1 1/2	72	41	39	22	55	50	60

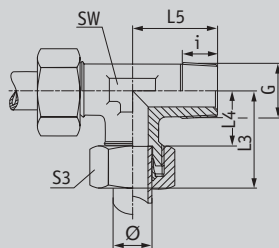
Construction Series: LL = Very Light – L = Light – S = Heavy — Ø = Tube Outside Diameter — PN = Nominal Pressure — PB = Maximal Working Pressure

LM

Male Stud Barrel Tees

Thread G: metric taper (DIN 158)

Article category 5112, 5207, 5307



Designation	Series	Pressure	Ø	G	L3	L4	L5	i	SW	S3
LM 04 LL	LL	PN 100	4	M 8x1 K	21	11	17	8	9	10
LM 05 LL	LL	PN 100	5	M 8x1 K	21	9,5	17	8	11	12
LM 06 LL	LL	PN 100	6	M 10x1 K	21	9,5	17	8	9	12
LM 08 LL	LL	PN 100	8	M 10x1 K	23	11,5	20	8	12	14
LM NW 04 HL	L	PN 315	6	M 10x1 K	27	12	20	8	12	14
LM NW 06 HL	L	PN 315	8	M 12x1,5 K	29	14	26	12	12	17
LM NW 08 HL	L	PN 315	10	M 14x1,5 K	30	15	27	12	14	19
LM NW 10 HL	L	PN 315	12	M 16x1,5 K	32	17	28	12	17	22
LM NW 13 HL	L	PN 316	15	M 18x1,5 K	36	21	32	12	19	27
LM NW 16 HL	L	PN 315	18	M 22x1,5 K	40	23,5	36	14	24	32
LM NW 03 HS	S	PN 400	6	M 12x1,5 K	31	16	26	11	12	17
LM NW 04 HS	S	PN 400	8	M 14x1,5 K	32	17	27	13	14	19
LM NW 06 HS	S	PN 400	10	M 16x1,5 K	34	17,5	28	12	17	22
LM NW 08 HS	S	PN 400	12	M 18x1,5 K	38	21,5	28	12	17	24
LM NW 10 HS	S	PN 400	14	M 20x1,5 K	40	22	32	14	19	27
LM NW 13 HS	S	PN 400	16	M 22x1,5 K	43	24,5	32	13	24	30

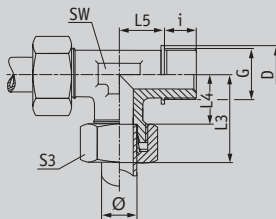
Construction Series: LL = Very Light – L = Light – S = Heavy — Ø = Tube Outside Diameter — PN = Nominal Pressure — PB = Maximal Working Pressure

LM

Male Stud Barrel Tees

Thread G: BSP parallel
(DIN ISO 288)

Article category 5207, 5307



Designation	Series	Pressure	Ø	G	L3	L4	L5	i	D	SW	S3
LM NW 20 HL	L	PN 160	22	M 26x1,5	27,5	44	26	16	31	27	36
LM NW 25 HL	L	PN 160	28	M 33x2	30,5	47	30	18	39	36	41
LM NW 32 HL	L	PN 160	35	M 42x2	34,5	56	34	20	49	41	50
LM NW 40 HL	L	PN 160	42	M 48x2	40	63	39	22	55	50	60
LM NW 16 HS	S	PB 400	20	M 27x2	48	26,5	26	16	32	27	36
LM NW 20 HS	S	PB 400	25	M 33x2	54	30	30	18	39	36	46
LM NW 25 HS	S	PB 250	30	M 42x2	62	35,5	34	20	49	41	50
LM NW 32 HS	S	PB 250	38	M 48x2	72	41	39	22	55	50	60

Construction Series: LL = Very Light – L = Light – S = Heavy — Ø = Tube Outside Diameter — PN = Nominal Pressure — PB = Maximal Working Pressure

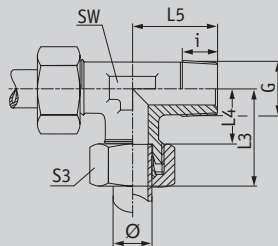
LN

Male Stud Barrel Tees

Thread G: NPT

(ANSI/ASME B1-20.1.1983)

Article category 5113, 5207, 5307



Designation	Series	Pressure	Ø	G	L3	L4	L5	i	SW	S3
LN 08 LL	LL	PN 100	8	1/8" NPT	23	11,5	20	8,5	12	14
LN NW 04 HL	L	PN 315	6	1/8" NPT	27	12	20	8	12	14
LN NW 06 HL	L	PN 315	8	1/4" NPT	29	14	26	11,5	12	17
LN NW 08 HL	L	PN 315	10	1/4" NPT	30	15	27	13,5	14	19
LN NW 10 HL	L	PN 315	12	3/8" NPT	32	17	28	15,2	17	22
LN NW 13 HL	L	PN 315	15	1/2" NPT	36	21	34	16,5	19	27
LN NW 16 HL	L	PN 315	18	1/2" NPT	40	23,5	36	16,5	24	32
LN NW 20 HL	L	PN 160	22	3/4" NPT	44	27,5	42	19,5	27	36
LN NW 25 HL	L	PN 160	28	1" NPT	47	30,5	48	25	36	41
LN NW 32 HL	L	PN 160	35	1 1/4" NPT	56	34,5	54	21,5	41	50
LN NW 40 HL	L	PN 160	42	1 1/2" NPT	63	40	61	24,5	50	60
LN NW 03 HS	S	PN 630	6	1/4" NPT	31	16	26	13	12	17
LN NW 04 HS	S	PN 630	8	1/8" NPT	32	17	27	13	14	19
LN NW 06 HS	S	PN 630	10	3/8" NPT	34	17,5	28	13	17	22
LN NW 08 HS	S	PN 630	12	3/8" NPT	38	21,5	28	15,2	17	24
LN NW 10 HS	S	PN 630	14	1/2" NPT	40	22	34	17,5	19	27
LN NW 13 HS	S	PN 400	16	1/2" NPT	43	24,5	36	18,8	24	30
LN NW 16 HS	S	PN 400	20	3/4" NPT	48	26,5	42	23	27	36
LN NW 20 HS	S	PN 400	25	1" NPT	54	30	48	25	36	46
LN NW 25 HS	S	PN 400	30	1 1/4" NPT	62	35,5	54	26,5	41	50
LN NW 32 HS	S	PN 315	38	1 1/2" NPT	72	41	61	26	50	60

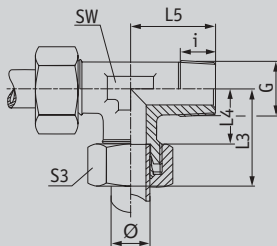
Construction Series: LL = Very Light – L = Light – S = Heavy — Ø = Tube Outside Diameter — PN = Nominal Pressure — PB = Maximal Working Pressure

LR

Male Stud Barrel Tees

Thread G: BSP taper (DIN 3858)

Article category 5114, 5207, 5307



Designation	Series	Pressure	Ø	G	L3	L4	L5	i	SW	S3
LR 04 LL	LL	PN 100	4	R 1/8" K	21	11	17	8	9	10
LR 05 LL	LL	PN 100	5	R 1/8" K	21	9,5	17	8	11	12
LR 06 LL	LL	PN 100	6	R 1/8" K	21	9,5	17	8	9	12
LR 08 LL	LL	PN 100	8	R 1/8" K	23	11,5	20	7	12	14
LR NW 04 HL	L	PN 315	6	R 1/8" K	21	11	17	8	12	14
LR NW 06 HL	L	PN 315	8	R 1/4" K	29	14	26	12	12	17
LR NW 08 HL	L	PN 315	10	R 1/4" K	30	15	27	12	14	19
LR NW 10 HL	L	PN 315	12	R 3/8" K	32	17	28	12	17	22
LR NW 13 HL	L	PN 315	15	R 1/2" K	36	21	34	14	19	27
LR NW 16 HL	L	PN 315	18	R 1/2" K	40	23,5	36	14	24	32
LR NW 03 HS	S	PN 400	6	R 1/4" K	31	16	26	12	12	17
LR NW 04 HS	S	PN 400	8	R 1/4" K	32	17	27	13	14	19
LR NW 06 HS	S	PN 400	10	R 3/8" K	34	17,5	28	12	17	22
LR NW 08 HS	S	PN 400	12	R 3/8" K	38	21,5	28	12	17	24
LR NW 10 HS	S	PN 400	14	R 1/2" K	40	22	32	14	19	27
LR NW 13 HS	S	PN 400	16	R 1/2" K	43	24,5	32	14	24	30

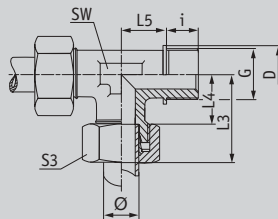
Construction Series: LL = Very Light – L = Light – S = Heavy — Ø = Tube Outside Diameter — PN = Nominal Pressure — PB = Maximal Working Pressure

LR

Male Stud Barrel Tees

Thread G: BSP parallel
(DIN ISO 228)

Article category 5207, 5307



Designation	Series	Pressure	Ø	G	L3	L4	L5	i	D	SW	S3
LR NW 20 HL	L	PN 160	22	G 3/4"	44	27,5	26	16	32	27	36
LR NW 25 HL	L	PN 160	28	G 1"	47	30,5	30	18	39	36	41
LR NW 32 HL	L	PN 160	35	G 1 1/4	56	34,5	34	20	49	41	60
LR NW 40 HL	L	PN 160	42	G 1 1/2	63	40	39	22	55	50	60
LR NW 16 HS	S	PB 400	20	G 3/4"	48	26,5	26	16	32	27	36
LR NW 20 HS	S	PB 400	25	G 1"	54	30	30	18	39	36	46
LR NW 25 HS	S	PB 250	30	G 1 1/4	62	35,5	34	20	49	41	50
LR NW 32 HS	S	PB 250	38	G 1 1/2	63	40	39	22	55	50	60

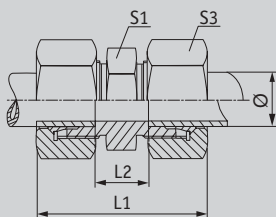
Construction Series: LL = Very Light – L = Light – S = Heavy — Ø = Tube Outside Diameter — PN = Nominal Pressure — PB = Maximal Working Pressure

V

Straight Couplings

Studs according to DIN 3902

Article category 5115



Designation	Series	Pressure	Ø	L1	L2	S1	S3
V 04 LL	LL	PN 100	4	31	12	9	10
V 05 LL	LL	PN 100	5	32	9	11	12
V 06 LL	LL	PN 100	6	32	9	11	12
V 08 LL	LL	PN 100	8	35	12	12	14
V 10 LL	LL	PN 100	10	35	12	14	17
V 12 LL	LL	PN 100	12	35	11	17	19
V 16 LL	LL	PN 100	16	54,5	20	27	27

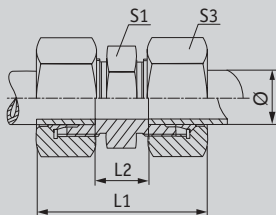
Construction Series: LL = Very Light – L = Light – S = Heavy — Ø = Tube Outside Diameter — PN = Nominal Pressure —
PB = Maximal Working Pressure

V

Straight Couplings

Studs according to DIN 3902

Article category 5208, 5308



Designation	Series	Pressure	Ø	L1	L2	S1	S3
V NW 04 HL	L	PN 315	6	39	10	12	14
V NW 06 HL	L	PN 315	8	40	11	14	17
V NW 08 HL	L	PN 315	10	42	13	17	19
V NW 10 HL	L	PN 315	12	43	14	19	22
V NW 13 HL	L	PN 315	15	46	16	24	27
V NW 16 HL	L	PN 315	18	48	16	27	32
V NW 16 HL 27	L	PN 315	18	48	16	27	32
V NW 20 HL	L	PN 160	22	52	20	32	36
V NW 25 HL	L	PN 160	28	54	21	41	41
V NW 32 HL	L	PN 160	35	63	20	46	50
V NW 40 HL	L	PN 160	42	66	21	55	60
V NW 03 HS	S	PN 630	6	45	16	14	17
V NW 04 HS	S	PN 630	8	47	18	17	19
V NW 06 HS	S	PN 630	10	49	17	19	22
V NW 08 HS	S	PN 630	12	51	19	22	24
V NW 10 HS	S	PN 630	14	57	22	24	27
V NW 13 HS	S	PN 400	16	57	21	27	30
V NW 16 HS	S	PN 400	20	66	23	32	36
V NW 20 HS	S	PN 400	25	74	26	41	46
V NW 25 HS	S	PN 400	30	80	27	46	50
V NW 32 HS	S	PN 315	38	90	29	55	60

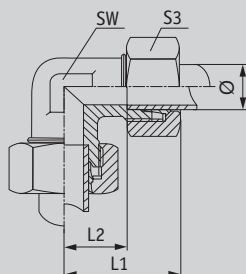
Construction Series: LL = Very Light – L = Light – S = Heavy — Ø = Tube Outside Diameter — PN = Nominal Pressure — PB = Maximal Working Pressure

W

Equal Elbows

Studs according to DIN 3905

Article category 5116



Designation	Series	Pressure	Ø	L1	L2	SW	S3
W 04 LL	LL	PN 100	4	21	11	7	10
W 05 LL	LL	PN 100	5	21	9,5	11	12
W 06 LL	LL	PN 100	6	21	9,5	9	12
W 08 LL	LL	PN 100	8	23	11,5	12	14
W 10 LL	LL	PN 100	10	27	15,5	14	17
W 12 LL	LL	PN 100	12	27	15	17	19
W 16 LL	LL	PN 100	16	40	22	19	27

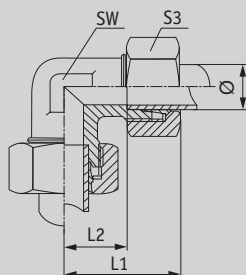
Construction Series: LL = Very Light – L = Light – S = Heavy — Ø = Tube Outside Diameter — PN = Nominal Pressure — PB = Maximal Working Pressure

W

Equal Elbows

Studs according to DIN 3905

Article category 5209, 5309



Designation	Series	Pressure	Ø	L1	L2	SW	S3
W NW 04 HL	L	PN 315	6	27	12	12	14
W NW 06 HL	L	PN 315	8	29	14	12	17
W NW 08 HL	L	PN 315	10	30	15	14	19
W NW 10 HL	L	PN 315	12	32	17	17	22
W NW 13 HL	L	PN 315	15	36	21	19	27
W NW 16 HL	L	PN 315	18	40	23,5	24	32
W NW 20 HL	L	PN 160	22	44	27,5	27	36
W NW 25 HL	L	PN 160	28	47	30,5	36	41
W NW 32 HL	L	PN 160	35	56	34,5	41	50
W NW 40 HL	L	PN 160	42	63	40	50	60
W NW 03 HS	S	PN 630	6	31	16	12	17
W NW 04 HS	S	PN 630	8	32	17	14	19
W NW 06 HS	S	PN 630	10	34	17,5	17	22
W NW 08 HS	S	PN 630	12	38	21,5	17	24
W NW 10 HS	S	PN 630	14	40	22	19	27
W NW 13 HS	S	PN 400	16	43	24,5	24	30
W NW 16 HS	S	PN 400	20	48	26,5	27	36
W NW 20 HS	S	PN 400	25	54	30	36	46
W NW 25 HS	S	PN 400	30	62	35,5	41	50
W NW 32 HS	S	PN 315	38	72	41	50	60

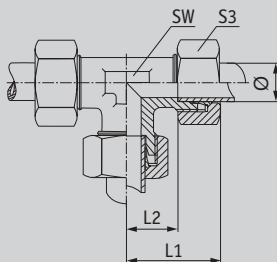
Construction Series: LL = Very Light – L = Light – S = Heavy — Ø = Tube Outside Diameter — PN = Nominal Pressure — PB = Maximal Working Pressure

T

Equal Tees

Studs acc. to DIN 3908

Article category 5117, 5210, 5310



Designation	Series	Pressure	Ø	L1	L2	SW	S3
T 04 LL	LL	PN 100	4	21	11	9	10
T 05 LL	LL	PN 100	5	21	9,5	11	12
T 06 LL	LL	PN 100	6	21	9,5	9	12
T 08 LL	LL	PN 100	8	23	11,5	12	14
T 10 LL	LL	PN 100	10	27	15,5	14	17
T 12 LL	LL	PN 100	12	27	15	17	19
T 16 LL	LL	PN 100	16	40	23	19	22
T NW 04 HL	L	PN 315	6	27	12	12	14
T NW 06 HL	L	PN 315	8	29	14	12	17
T NW 08 HL	L	PN 315	10	30	15	14	19
T NW 10 HL	L	PN 315	12	32	17	17	22
T NW 13 HL	L	PN 315	15	36	21	19	27
T NW 16 HL	L	PN 315	18	40	23,5	24	32
T NW 16 HL 27	L						
T NW 20 HL	L	PN 160	22	44	27,5	27	36
T NW 25 HL	L	PN 160	28	47	30,5	36	41
T NW 32 HL	L	PN 160	35	56	34,5	41	50
T NW 40 HL	L	PN 160	42	63	40	50	60
T NW 03 HS	S	PN 630	6	31	16	12	17
T NW 04 HS	S	PN 630	8	32	17	14	19
T NW 06 HS	S	PN 630	10	34	17,5	17	22
T NW 08 HS	S	PN 630	12	38	21,5	17	24
T NW 10 HS	S	PN 630	14	40	22	19	27
T NW 13 HS	S	PN 400	16	43	24,5	24	30
T NW 16 HS	S	PN 400	20	48	26,5	27	36
T NW 20 HS	S	PN 400	25	54	30	36	46
T NW 25 HS	S	PN 400	30	62	35,5	41	50
T NW 32 HS	S	PN 315	38	72	41	50	60

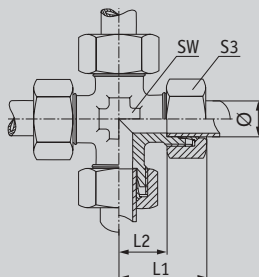
Construction Series: LL = Very Light – L = Light – S = Heavy — Ø = Tube Outside Diameter — PN = Nominal Pressure — PB = Maximal Working Pressure

K

Equal Crosses

Studs acc. to DIN 3951

Article category 5118, 5211, 5311



Designation	Series	Pressure	Ø	L1	L2	SW	S3
K 04 LL	LL	PN 100	4	11	21	9	10
K 05 LL	LL	PN 100	5	21	9,5	9	12
K 06 LL	LL	PN 100	6	9,5	21	9	12
K 08 LL	LL	PN 100	8	11,5	23	12	14
K NW 04 HL	L	PN 315	6	12	27	12	14
K NW 06 HL	L	PN 315	8	14	29	14	17
K NW 08 HL	L	PN 315	10	15	30	14	19
K NW 10 HL	L	PN 315	12	17	32	17	22
K NW 13 HL	L	PN 315	15	21	36	19	27
K NW 16 HL	L	PN 315	18	23,5	40	24	32
K NW 20 HL	L	PN 160	22	27,5	44	27	36
K NW 25 HL	L	PN 160	28	30,5	47	36	41
K NW 32 HL	L	PN 160	35	34,5	56	41	50
K NW 40 HL	L	PN 160	42	40	63	50	60
K NW 03 HS	S	PN 630	6	16	31	12	17
K NW 04 HS	S	PN 630	8	17	32	14	19
K NW 06 HS	S	PN 630	10	17,5	34	17	22
K NW 08 HS	S	PN 630	12	21,5	38	19	24
K NW 10 HS	S	PN 630	14	22	40	19	27
K NW 13 HS	S	PN 400	16	24,5	43	24	30
K NW 16 HS	S	PN 400	20	26,5	48	27	36
K NW 20 HS	S	PN 400	25	30	54	36	46
K NW 25 HS	S	PN 400	30	35,5	62	41	50
K NW 32 HS	S	PN 315	38	41	72	50	60

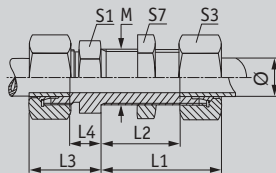
Construction Series: LL = Very Light – L = Light – S = Heavy — Ø = Tube Outside Diameter — PN = Nominal Pressure — PB = Maximal Working Pressure

SV

Straight Bulkhead Couplings

Studs acc. to DIN 3910

Article category 5131, 5212, 5312



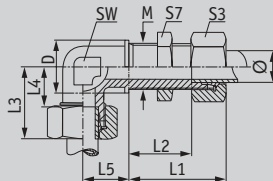
Designation	Series	Pressure	Ø	M	L1	L2	L3	L4	S1	S3	S7
SV 16 LL	LL	PN 100	16	M 22x1,5	50	32,5	31	14	27	27	27
SV NW 04 HL	L	PN 315	6	M 12x1,5	42	27	22	7	17	14	17
SV NW 06 HL	L	PN 315	8	M 14x1,5	42	27	23	8	19	17	19
SV NW 08 HL	L	PN 315	10	M 16x1,5	43	28	25	10	22	19	22
SV NW 10 HL	L	PN 315	12	M 18x1,5	44	29	25	10	24	22	24
SV NW 13 HL	L	PN 315	15	M 22x1,5	46	31	27	12	27	27	30
SV NW 16 HL	L	PN 315	18	M 26x1,5	49	32,5	30	13,5	32	32	36
SV NW 20 HL	L	PN 160	22	M 30x2	51	34,5	33	16,5	36	36	41
SV NW 25 HL	L	PN 160	28	M 36x2	52	35,5	35	18,5	41	41	46
SV NW 32 HL	L	PN 160	35	M 45x2	58	36,5	40	18,5	50	50	55
SV NW 40 HL	L	PN 160	42	M 52x2	59	36	42	19	60	60	65
SV NW 03 HS	S	PN 630	6	M 14x1,5	44	29	27	12	19	17	19
SV NW 04 HS	S	PN 630	8	M 16x1,5	44	29	28	13	22	19	22
SV NW 06 HS	S	PN 630	10	M 18x1,5	46	29,5	31	14,5	24	22	24
SV NW 08 HS	S	PN 630	12	M 20x1,5	47	30,5	31	14,5	27	24	27
SV NW 10 HS	S	PN 630	14	M 22x1,5	50	32	35	17	30	27	30
SV NW 13 HS	S	PN 400	16	M 24x1,5	50	31,5	35	16,5	32	30	32
SV NW 16 HS	S	PN 400	20	M 30x2	55	33,5	39	17,5	41	36	41
SV NW 20 HS	S	PN 400	25	M 36x2	59	35	44	20	46	46	46
SV NW 25 HS	S	PN 400	30	M 42x2	64	37,5	48	21,5	50	50	50
SV NW 32 HS	S	PN 315	38	M 52x2	68	37	53	22	65	60	65

Construction Series: LL = Very Light – L = Light – S = Heavy — Ø = Tube Outside Diameter — PN = Nominal Pressure — PB = Maximal Working Pressure

SW

Elbow Bulkhead Couplings

Article category 5130, 5213, 5313



Designation	Series	Pressure	Ø	M	L1	L2	L3	L4	L5	D	SW	S3	S7
SW 16 LL	LL	PN 315	16	M 22x1,5	49	33	40	23	24	27	19	27	27
SW NW 04 HL	L	PN 315	6	M 12x1,5	42	27	27	12	14	17	12	14	17
SW NW 06 HL	L	PN 315	8	M 14x1,5	42	27	29	14	17	19	12	17	19
SW NW 08 HL	L	PN 315	10	M 16x1,5	43	28	30	15	18	22	14	19	22
SW NW 10 HL	L	PN 315	12	M 18x1,5	44	29	32	17	20	24	17	22	24
SW NW 13 HL	L	PN 315	15	M 22x1,5	46	31	36	21	23	27	19	27	30
SW NW 16 HL	L	PN 315	18	M 26x1,5	49	32,5	40	23,5	24	32	24	32	36
SW NW 20 HL	L	PN 160	22	M 30x2	51	34,5	44	27,5	30	36	27	36	41
SW NW 25 HL	L	PN 160	28	M 36x2	52	35,5	47	30,5	34	42	36	41	46
SW NW 32 HL	L	PN 160	35	M 45x2	58	36,5	56	34,5	39	50	41	50	55
SW NW 40 HL	L	PN 160	42	M 52x2	59	36	63	40	43	60	50	60	65
SW NW 03 HS	S	PN 630	6	M 14x1,5	44	29	31	16	17	19	12	17	19
SW NW 04 HS	S	PN 630	8	M 16x1,5	44	29	32	17	18	22	14	19	22
SW NW 06 HS	S	PN 630	10	M 18x1,5	46	29,5	34	17,5	20	24	17	22	24
SW NW 08 HS	S	PN 630	12	M 20x1,5	47	30,5	38	21,5	21	27	17	24	27
SW NW 10 HS	S	PN 630	14	M 22x1,5	50	32	40	22	23	27	19	27	30
SW NW 13 HS	S	PN 400	16	M 24x1,5	50	31,5	43	24,5	24	30	24	30	32
SW NW 16 HS	S	PN 400	20	M 30x2	55	33,5	48	26,5	30	36	27	36	41
SW NW 20 HS	S	PN 400	25	M 36x2	59	35	54	30	34	42	36	46	46
SW NW 25 HS	S	PN 400	30	M 42x2	64	37,5	62	35,5	39	50	41	50	50
SW NW 32 HS	S	PN 315	38	M 52x2	68	37	72	41	43	60	50	60	65

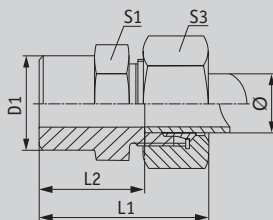
Construction Series: LL = Very Light – L = Light – S = Heavy — Ø = Tube Outside Diameter — PN = Nominal Pressure — PB = Maximal Working Pressure

SA

Weldable Straight Couplings

Studs acc. to DIN 3909,
C15 as material

Article category 5214, 5314



Designation	Series	Pressure	Ø	L1	L2	D1	S1	S3
SA NW 04 HL	L	PN 315	6	29	14	10	14	14
SA NW 06 HL	L	PN 315	8	31	16	12	14	17
SA NW 08 HL	L	PN 315	10	33	18	14	17	19
SA NW 10 HL	L	PN 315	12	33	18	16	19	22
SA NW 13 HL	L	PN 315	15	37	22	19	22	27
SA NW 16 HL	L	PN 315	18	40	23,5	22	27	32
SA NW 20 HL	L	PN 160	22	45	28,5	27	32	36
SA NW 25 HL	L	PN 160	28	47	30,5	32	41	41
SA NW 32 HL	L	PN 160	35	54	32,5	40	46	50
SA NW 40 HL	L	PN 160	42	58	35	46	55	60
SA NW 03 HS	S	PN 630	6	34	19	11	14	17
SA NW 04 HS	S	PN 630	8	36	21	13	17	19
SA NW 06 HS	S	PN 630	10	39	22,5	15	19	22
SA NW 08 HS	S	PN 630	12	41	24,5	17	22	24
SA NW 10 HS	S	PN 630	14	45	27	19	24	27
SA NW 13 HS	S	PN 400	16	45	26,6	21	27	30
SA NW 16 HS	S	PN 400	20	51	29,5	26	32	36
SA NW 20 HS	S	PN 400	25	56	32	31	41	46
SA NW 25 HS	S	PN 400	30	62	35,5	36	46	50
SA NW 32 HS	S	PN 315	38	69	38	44	55	60

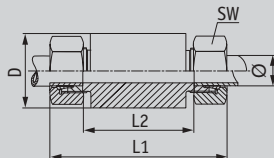
Construction Series: LL = Very Light – L = Light – S = Heavy — Ø = Tube Outside Diameter — PN = Nominal Pressure — PB = Maximal Working Pressure

SE

Weldable Bulkhead Couplings

Studs acc. to DIN 3912,
C15 as material

Article category 5215, 5315



Designation	Series	Pressure	Ø	L1	L2	D	SW
SE NW 04 HL	L	PN 315	6	85	56	18	14
SE NW 06 HL	L	PN 315	8	85	56	20	17
SE NW 08 HL	L	PN 315	10	87	58	22	19
SE NW 10 HL	L	PN 315	12	87	58	25	22
SE NW 13 HL	L	PN 315	15	100	70	28	27
SE NW 16 HL	L	PN 315	18	101	69	32	32
SE NW 20 HL	L	PN 160	22	105	73	36	36
SE NW 25 HL	L	PN 160	28	106	73	40	41
SE NW 32 HL	L	PN 160	35	114	71	50	50
SE NW 40 HL	L	PN 160	42	115	70	60	60
SE NW 03 HS	S	PN 630	6	89	60	20	17
SE NW 04 HS	S	PN 630	8	89	60	22	19
SE NW 06 HS	S	PN 630	10	91	59	25	22
SE NW 08 HS	S	PN 630	12	91	59	28	24
SE NW 10 HS	S	PN 630	14	107	72	30	27
SE NW 13 HS	S	PN 400	16	107	71	35	30
SE NW 16 HS	S	PN 400	20	114	71	38	36
SE NW 20 HS	S	PN 400	25	120	72	45	46
SE NW 25 HS	S	PN 400	30	126	73	50	50
SE NW 32 HS	S	PN 315	38	133	72	60	60

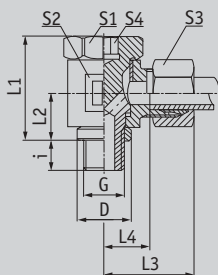
Construction Series: LL = Very Light – L = Light – S = Heavy — Ø = Tube Outside Diameter — PN = Nominal Pressure — PB = Maximal Working Pressure

SDM

Throttlefree Banjo Elbows

Thread G: metric parallel

Article category 5216, 5316



Designation	Series	Pressure	Ø	G	L1	L2	L3	L4	i	S1	S2	S3	S4	D
SDM NW 04 HL	L	PB 250	6	M 10x1	26	12	28	13	8	19	19	14	6	14
SDM NW 06 HL	L	PB 250	8	M 12x1,5	33	15	29	14,5	12	22	22	17	6	17
SDM NW 08 HL	L	PB 250	10	M 14x1,5	34,5	16	30	15,5	12	22	22	19	8	19
SDM NW 10 HL	L	PB 250	12	M 16x1,5	40	18	33	18	12	27	27	22	10	21
SDM NW 13 HL	L	PB 250	15	M 18x1,5	44,5	20	36	21	12	30	30	27	12	23
SDM NW 16 HL	L	PB 100	18	M 22x1,5	50,5	23	38	21,5	14	32	36	32	14	27
SDM NW 20 HL	L	PB 100	22	M 26x1,5	55,5	25	42	26	16	36	41	36	17	31
SDM NW 25 HL	L	PB 100	28	M 33x2	67,5	32	48	31,5	18	46	50	41	22	39
SDM NW 32 HL	L	PB 100	35	M 42x2	80	37	57	35,5	20	60	60	50	27	49
SDM NW 40 HL	L	PB 100	42	M 48x2	90,5	42	63	40	22	65	70	60	32	55
SDM NW 03 HS	S	PB 400	6	M 12x1,5	33	15	31	16,5	12	22	22	17	6	17
SDM NW 04 HS	S	PB 400	8	M 14x1,5	34,5	16	31	16,5	12	22	22	19	8	19
SDM NW 06 HS	S	PB 400	10	M 16x1,5	40	18	35	18,5	12	27	27	22	10	21
SDM NW 08 HS	S	PB 400	12	M 18x1,5	44,5	20	37	20,5	12	30	30	24	12	23
SDM NW 10 HS	S	PB 400	14	M 20x1,5	46,5	21	41	23	14	32	32	27	12	25
SDM NW 13 HS	S	PB 400	16	M 22x1,5	50,5	23	41	22,5	14	32	36	30	14	27
SDM NW 16 HS	S	PB 400	20	M 27x2	61,5	28	49	27,5	16	41	46	36	17	32
SDM NW 20 HS	S	PB 250	25	M 33x2	67,5	32	55	31	18	46	50	46	22	39
SDM NW 25 HS	S	PB 250	30	M 42x2	80	37	63	36,5	20	60	60	50	27	49
SDM NW 32 HS	S	PB 250	38	M 48x2	90,5	42	72	41	22	65	70	60	32	55

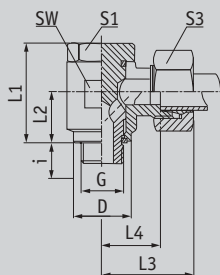
Construction Series: LL = Very Light – L = Light – S = Heavy — Ø = Tube Outside Diameter — PN = Nominal Pressure — PB = Maximal Working Pressure

SDOM

Banjo Couplings with Captive Seal and O-Ring

Thread G: metric parallel (DIN 13)

Article category 5216, 5316



Designation	Series	Pressure	Ø	G	L1	L2	L3	L4	i	SW	S1	S3	D	O-Ring
SDOM NW 04 HL	L	PB 315	6	M 10x1	23,5	10,5	27	12	8	17	17	14	14,7	7,65x1,78
SDOM NW 06 HL	L	PB 315	8	M 12x1,5	29,5	14	29,5	14,5	12,5	22	19	17	17,7	11,10x1,78
SDOM NW 08 HL	L	PB 315	10	M 14x1,5	30	14	30,5	15,5	12	22	19	19	18,7	11,10x1,78
SDOM NW 10 HL	L	PB 315	12	M 16x1,5	35	16,5	33	18	12	27	24	22	22,7	14,00x1,78
SDOM NW 10 HL 18	L	PB 315	12	M 18x1,5	35	16,5	33	18	12	27	24	22	23,5	18,77x1,78
SDOM NW 13 HL	L	PB 315	15	M 18x1,5	46	21,5	36,5	21,5	12	32	27	27	23,7	18,77x1,78
SDOM NW 16 HL	L	PB 315	18	M 22x1,5	46,7	21,5	38	21	11,4	32	27	32	27,7	18,77x1,78
SDOM NW 20 HL	L	PB 160	22	M 26x1,5	52	24	44	27,5	16	41	36	36	32,7	23,81x2,62
SDOM NW 25 HL	L	PB 160	28	M 33x2	64	30,5	48,5	32	18	50	46	41	39,7	29,82x2,62
SDOM NW 32 HL	L	PB 160	35	M 42x2	75	35,5	57,5	36	20	60	50	50	49,7	37,77x2,62
SDOM NW 40 HL	L	PB 160	42	M 48x2	88	40,5	62	38,5	22	70	60	60	55,7	41,28x3,53
SDOM NW 03 HS	S	PB 400	6	M 12x1,5	30	14	31,5	16,5	12	22	19	17	17,7	11,10x1,78
SDOM NW 04 HS	S	PB 400	8	M 14x1,5	30	14	30	14,5	12	22	19	19	18,7	11,10x1,78
SDOM NW 06 HS	S	PB 400	10	M 16x1,5	35	16,5	35	18,5	12	27	24	22	22,7	14,00x1,78
SDOM NW 08 HS	S	PB 400	12	M 18x1,5	35	16,5	35	18,5	12	27	24	24	23,7	18,77x1,78
SDOM NW 10 HS	S	PB 400	14	M 20x1,5	46	21,5	40,5	22,5	14	32	27	27	25,7	18,77x1,78
SDOM NW 13 HS	S	PB 400	16	M 22x1,5	46	21,5	41	22,5	14	32	27	30	27,7	18,77x1,78
SDOM NW 16 HS	S	PB 400	20	M 27x2	52	24	48	26,5	16	41	36	36	32,7	23,81x2,62
SDOM NW 20 HS	S	PB 250	25	M 33x2	64	30,5	55,5	31,5	18	50	46	46	39,7	29,38x2,62
SDOM NW 25 HS	S	PB 250	30	M 42x2	75	35,5	63,5	37	20	60	50	50	49,7	37,77x2,62
SDOM NW 32 HS	S	PB 250	38	M 48x2	87	40,5	72,5	41,5	23	70	60	60	55,7	41,28x3,53

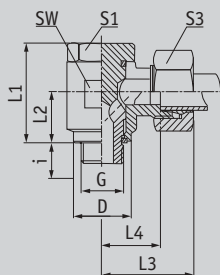
Construction Series: LL = Very Light – L = Light – S = Heavy — Ø = Tube Outside Diameter — PN = Nominal Pressure — PB = Maximal Working Pressure

SDOR

Banjo Couplings with Captive Seal and O-Ring

Thread G: BSP taper
(DIN ISO 228)

Article category 5216, 5316



Designation	Series	Pressure	Ø	G	L1	L2	L3	L4	i	SW	S1	S3	D	O-Ring
SDOR NW 04 HL	L	PB 315	6	G 1/8"	23,5	10,5	27	12	8	17	17	14	14,7	7,65x1,78
SDOR NW 06 HL	L	PB 315	8	G 1/4"	29	14	29	14,5	13	22	19	17	18,7	11,10x1,78
SDOR NW 08 HL	L	PB 315	10	G 1/4"	29	14	30	15,5	12,6	22	19	19	18,7	11,10x1,78
SDOR NW 10 HL	L	PB 315	12	G 3/8"	35	16,5	33	18	12	27	24	22	22,7	14,00x1,78
SDOR NW 13 HL	L	PB 315	15	G 1/2"	46	21,5	36	21,5	12	32	27	27	26,7	18,77x1,78
SDOR NW 16 HL	L	PB 315	18	G 1/2"	46	21,5	37,5	21	12	32	27	32	26,7	18,77x1,78
SDOR NW 20 HL	L	PB 160	22	G 3/4"	52	24	44	27,5	16	41	36	36	32,7	23,81 x2,62
SDOR NW 25 HL	L	PB 160	28	G 1"	64	30,5	48,5	32	18	50	46	41	39,7	29,82x2,62
SDOR NW 32 HL	L	PB 160	35	G 1 1/4"	75	35,5	58	36	20	60	50	50	49,7	37,77x2,62
SDOR NW 40 HL	L	PB 160	42	G 1 1/2"	74	40,5	63,5	40,5	22	70	60	60	55,7	41,28x3,53
SDOR NW 03 HS	S	PB 400	6	G 1/4"	29	14	31,5	16,5	13	22	19	17	18,7	11,10x1,78
SDOR NW 04 HS	S	PB 400	8	G 1/4"	29	14	31,5	16,5	13	22	19	19	18,7	11,10x1,78
SDOR NW 06 HS	S	PB 400	10	G 3/8"	35,5	16,5	34,5	18,5	12	27	24	22	22,7	14,00x1,78
SDOR NW 08 HS	S	PB 400	12	G 3/8"	35	16,5	34,5	18,5	12	27	24	24	22,7	14,00x1,78
SDOR NW 10 HS	S	PB 400	14	G 1/2"	46	21,5	40,5	22,5	12	32	27	27	26,7	18,77x1,78
SDOR NW 13 HS	S	PB 400	16	G 1/2"	46	21,5	40,5	22	12	32	27	30	26,7	18,77x1,78
SDOR NW 16 HS	S	PB 400	20	G 3/4"	52	24	48	26,5	16	41	36	36	32,7	23,81 x2,62
SDOR NW 20 HS	S	PB 250	25	G 1"	63	30,5	55,5	31,5	19	50	46	46	39,7	29,82x2,62
SDOR NW 25 HS	S	PB 250	30	G 1 1/4"	75	35,5	63,5	37	20	60	55	50	49,7	37,77x2,62
SDOR NW 32 HS	S	PB 250	38	G 1 1/2"	74	40,5	72,5	41,5	22	70	60	60	55,7	41,28x3,53

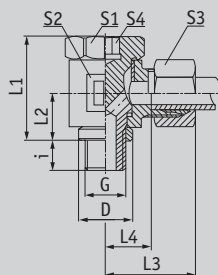
Construction Series: LL = Very Light – L = Light – S = Heavy — Ø = Tube Outside Diameter — PN = Nominal Pressure — PB = Maximal Working Pressure

SDR

Throttlefree Banjo Elbows

Thread G: BSP parallel

Article category 5216, 5316



Designation	Series	Pressure	Ø	G	L1	L2	L3	L4	i	S1	S2	S3	S4	D
SDR NW 04 HL	L	PB 250	6	G 1/8 A	26	12	28	13	8	19	19	14	6	14
SDR NW 06 HL	L	PB 250	8	G 1/4 A	34,5	16	29	14,5	12	22	22	17	8	18
SDR NW 08 HL	L	PB 250	10	G 1/4 A	34,5	16	30	15,5	12	22	22	19	8	18
SDR NW 10 HL	L	PB 250	12	G 3/8 A	40	18	33	18	12	27	27	22	10	22
SDR NW 13 HL	L	PB 250	15	G 1/2 A	46,5	21	37	22	14	32	32	27	12	26
SDR NW 16 HL	L	PB 100	18	G 1/2 A	51	23,5	38	21,5	14	32	36	32	14	26,5
SDR NW 20 HL	L	PB 100	22	G 3/4 A	61,5	28	45	28,5	16	41	46	36	17	32
SDR NW 25 HL	L	PB 100	28	G 1 A	67,5	32	48	31,5	18	46	50	41	22	39
SDR NW 32 HL	L	PB 100	35	G 1 1/4 A	80	37	57	35,5	20	60	60	50	27	49
SDR NW 40 HL	L	PB 100	42	G 1 1/2 A	90,5	42	63	40	22	65	70	60	32	55
SDR NW 03 HS	S	PB 400	6	G 1/4 A	34,5	16	31	16,5	12	22	22	17	8	18
SDR NW 04 HS	S	PB 400	8	G 1/4 A	34,5	16	31	16,5	12	22	22	19	8	18
SDR NW 06 HS	S	PB 400	10	G 3/8 A	40	18	35	18,5	12	27	27	22	10	22
SDR NW 08 HS	S	PB 400	12	G 3/8 A	40	18	35	18,5	12	27	27	24	10	22
SDR NW 10 HS	S	PB 400	14	G 1/2 A	46,5	21	41	23	14	32	32	27	12	26
SDR NW 13 HS	S	PB 400	16	G 1/2 A	51	23,5	41	22,5	14	32	36	30	14	26,5
SDR NW 16 HS	S	PB 400	20	G 3/4 A	61,5	28	49	27,5	16	41	46	36	17	32
SDR NW 20 HS	S	PB 250	25	G 1 A	67,5	32	55	31	18	46	50	46	22	39
SDR NW 25 HS	S	PB 250	30	G 1 1/4 A	80	37	63	36,5	20	60	60	50	27	49
SDR NW 32 HS	S	PB 250	38	G 1 1/2 A	90,5	42	72	41	22	65	70	60	32	55

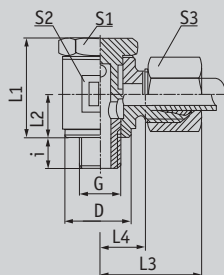
Construction Series: LL = Very Light – L = Light – S = Heavy — Ø = Tube Outside Diameter — PN = Nominal Pressure — PB = Maximal Working Pressure

SWM

Banjo Couplings

Thread G: metric parallel

Article category 5119, 5216, 5316



Designation	Series	Pressure	Ø	G	L1	L2	L3	L4	i	D	S1	S2	S3
SWM 04 LL	LL	PN 100	4	8x1	21,5	10	21	13	6	12,5	14	12	10
SWM 05 LL	LL	PN 100	5	8x1	21,5	10	22	11,5	6	14,5	14	14	12
SWM 06 LL	LL	PN 100	6	10x1	21,5	10	22	11,5	6	14,5	14	14	12
SWM 08 LL	LL	PN 100	8	10x1	21,5	10	23	12,5	6	14,5	14	14	14
SWM NW 04 HL	L	PN 250	6	10x1	21,5	10	25	11	6	14,5	14	14	14
SWM NW 04 HL 12	L	PN 250	6	12x1,5	27,5	13	26	12,5	9	18,5	19	17	14
SWM NW 06 HL	L	PN 250	8	12x1,5	27,5	13	27	14	9	18,5	19	17	17
SWM NW 08 HL	L	PN 250	10	14x1,5	27,5	13	27	13,5	9	18,5	19	19	19
SWM NW 10 HL	L	PN 250	12	16x1,5	34	16	30	16	9	21,5	22	22	22
SWM NW 10 HL 18	L	PN 250	12	18x1,5	34	16	30	16	9	23,5	22	22	22
SWM NW 13 HL	L	PN 250	15	18x1,5	37	17	32	17	9	23,5	24	24	27
SWM NW 16 HL	L	PN 160	18	22x1,5	44	21	35	19,5	11	27	27	30	32
SWM NW 20 HL	L	PN 160	22	26x1,5	48	23	40	25,5	13	32	32	36	36
SWM NW 03 HS	S	PN 250	6	12x1,5	27,5	13	28	14,5	9	18,5	19	17	17
SWM NW 04 HS	S	PN 250	8	14x1,5	27,5	13	29	14,5	9	18,5	19	19	19
SWM NW 06 HS	S	PN 250	10	16x1,5	34	16	33	15,5	9	22,5	22	22	22
SWM NW 08 HS	S	PN 250	12	18x1,5	34	16	34	15,5	9	23,5	22	24	24
SWM NW 10 HS	S	PN 250	14	20x1,5	45	22	36	19,5	10	26,5	27	27	27
SWM NW 13 HS	S	PN 160	16	22x1,5	44	21	40	19	11	27	27	30	30
SWM NW 16 HS	S	PN 160	20	27x2	48	23	46	22,5	13	32	32	36	36

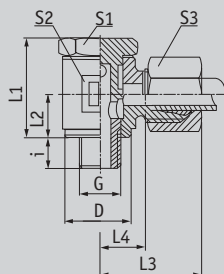
Construction Series: LL = Very Light – L = Light – S = Heavy — Ø = Tube Outside Diameter — PN = Nominal Pressure — PB = Maximal Working Pressure

SWR

Banjo Couplings

Thread G: BSP parallel

Article category 5120, 5216, 5316



Designation	Series	Pressure	Ø	G	L1	L2	L3	L4	i	D	S1	S2	S3
SWR 04 LL	LL	PN 100	4	1/8"	21,5	10	20	13	6	14,5	14	14	10
SWR 05 LL	LL	PN 100	5	1/8"	21,5	10	20	11,5	6	14,5	14	14	12
SWR 06 LL	LL	PN 100	6	1/8"	21,5	10	20	11,5	6	14,5	14	14	12
SWR 08 LL	LL	PN 100	8	1/8"	21,5	10	21	12,5	6	14,5	14	14	14
SWR NW 04 HL	L	PN 250	6	1/8"	21,5	10	26	11	6	14,5	14	14	14
SWR NW 06 HL	L	PN 250	8	1/4"	27,5	13	28	14	9	18,5	19	19	17
SWR NW 08 HL	L	PN 250	10	1/4"	27,5	13	29	13,5	9	18,5	19	19	19
SWR NW 10 HL	L	PN 250	12	3/8"	34	16	30	16	9	22,5	22	22	22
SWR NW 10 HL 1/4	L	PN 250	12	1/4"	34	16	30	16	9	18,5	22	22	19
SWR NW 10 HL 1/2	L	PN 250	12	1/2"	45	22	34	18	11	26,5	27	30	19
SWR NW 13 HL	L	PN 250	15	1/2"	45	22	34	19,5	11	26,5	27	30	27
SWR NW 13 HL 3/8	L	PN 250	15	3/8"	45	22	34	19,5	9	24	27	30	27
SWR NW 16 HL	L	PN 160	18	1/2"	44	21	36	19,5	11	26	27	30	32
SWR NW 20 HL	L	PN 160	22	3/4"	48	23	42	25,5	13	32	32	36	36
SWR NW 03 HS	S	PN 250	6	1/4"	27,5	23	30	14,5	9	18,5	19	19	17
SWR NW 04 HS	S	PN 250	8	1/4"	27,5	13	30	14,5	9	18,5	19	19	19
SWR NW 06 HS	S	PN 250	10	3/8"	34	16	33	15,5	9	22,5	22	22	22
SWR NW 08 HS	S	PN 250	12	3/8"	34	16	33	15,5	9	22,5	22	22	24
SWR NW 10 HS	S	PN 250	14	1/2"	45	22	38	19,5	11	26,5	27	30	27
SWR NW 13 HS	S	PN 250	16	1/2"	44	21	39	19	11	26	27	30	30
SWR NW 16 HS	S	PN 250	20	3/4"	48	23	45	22,5	13	32	32	36	36

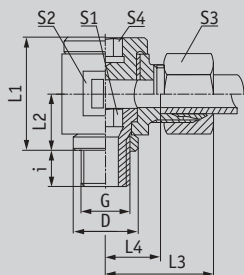
Construction Series: LL = Very Light – L = Light – S = Heavy — Ø = Tube Outside Diameter — PN = Nominal Pressure — PB = Maximal Working Pressure

DWM

Throttlefree Banjo Couplings

Thread G: Metric parallel

Article category 5217, 5317



Designation	Series	Pressure	Ø	G	L1	L2	L3	L4	i	S2	S3	S4	D
DWM NW 04 HL	L	PN 250	6	M 10x1	24	12	27	12,5	8	19	14	6	14
DWM NW 06 HL	L	PN 250	8	M 12x1,5	30	15	29	14,5	12	22	17	6	17
DWM NW 08 HL	L	PN 250	10	M 14x1,5	30	16	30	15,5	12	22	19	8	19
DWM NW 10 HL	L	PN 250	12	M 16x1,5	37	18	33	18	12	27	22	10	21
DWM NW 10 HL 18	L	PN 250	12	M 18x1,5	37	18	33	18	12	27	22	10	23
DWM NW 13 HL	L	PN 250	15	M 18x1,5	40	20	36	21	12	30	27	12	23
DWM NW 16 HL	L	PN 100	18	M 22x1,5	46	23	38	21,5	14	36	32	14	27
DWM NW 20 HL	L	PN 100	22	M 26x1,5	51	25	42	26	16	41	36	17	31
DWM NW 25 HL	L	PN 100	28	M 33x2	64	32	48	31,5	18	50	41	22	39
DWM NW 32 HL	L	PN 100	35	M 42x2	76	37	57	35,5	20	60	50	27	49
DWM NW 40 HL	L	PN 100	42	M 48x2	85	42	63	40	22	70	60	32	55
DWM NW 03 HS	S	PN 400*	6	M 12x1,5	30	15	31	16,5	12	22	17	6	17
DWM NW 04 HS	S	PN 400*	8	M 14x1,5	30	16	31	16,5	12	22	19	8	19
DWM NW 06 HS	S	PN 400*	10	M 16x1,5	37	18	35	18,5	12	27	22	10	21
DWM NW 08 HS	S	PN 400*	12	M 18x1,5	41	20	37	20,5	12	30	24	12	23
DWM NW 10 HS	S	PN 400*	14	M 20x1,5	42	21	41	23	14	32	27	12	25
DWM NW 13 HS	S	PN 400*	16	M 22x1,5	46	23	41	22,5	14	36	30	14	27
DWM NW 16 HS	S	PN 400*	20	M 27x2	58	28	49	27,5	16	46	36	17	32
DWM NW 20 HS	S	PN 250*	25	M 33x2	64	32	55	31	18	50	46	22	39
DWM NW 25 HS	S	PN 250*	30	M 42x2	76	37	63	36,5	20	60	50	27	49
DWM NW 32 HS	S	PN 250*	38	M 48x2	85	42	72	41	22	70	60	32	55

*) Safety factor: 1,6

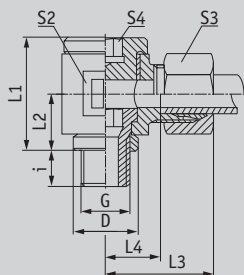
Construction Series: LL = Very Light – L = Light – S = Heavy — Ø = Tube Outside Diameter — PN = Nominal Pressure — PB = Maximal Working Pressure

DWR

Throttlefree Banjo Couplings

Thread G: BSP parallel

Article category 5217, 5317



Designation	Series	Pressure	Ø	G	L1	L2	L3	L4	i	S2	S3	S4	D
DWR NW 04 HL	L	PN 250	6	1/8"	24	12	27	12,5	8	19	14	6	14
DWR NW 06 HL	L	PN 250	8	1/4"	30	16	29	14,5	12	22	17	8	18
DWR NW 08 HL	L	PN 250	10	1/4"	30	16	30	15,5	12	22	19	8	18
DWR NW 10 HL	L	PN 250	12	3/8"	37	18	33	18	12	27	22	10	22
DWR NW 13 HL	L	PN 250	15	1/2"	42	21	37	22	14	32	27	12	26
DWR NW 16 HL	L	PN 100	18	1/2"	46	23	38	21,5	14	36	32	12	26
DWR NW 20 HL	L	PN 100	22	3/4"	58	28	45	28,5	16	46	36	17	32
DWR NW 25 HL	L	PN 100	28	1"	64	32	48	31,5	18	50	41	22	39
DWR NW 32 HL	L	PN 100	35	1 1/4"	76	37	57	35,5	20	60	50	27	49
DWR NW 40 HL	L	PN 100	42	1 1/2"	85	42	63	40	22	70	60	32	55
DWR NW 03 HS	S	PN 400*	6	1/4"	30	16	31	16,5	12	22	17	8	18
DWR NW 04 HS	S	PN 400*	8	1/4"	30	16	31	16,5	12	22	19	8	18
DWR NW 06 HS	S	PN 400*	10	3/8"	37	18	35	18,5	12	27	22	10	22
DWR NW 08 HS	S	PN 400*	12	3/8"	37	18	35	18,5	12	27	24	10	22
DWR NW 10 HS	S	PN 400*	14	1/2"	42	21	41	23	14	32	27	12	26
DWR NW 13 HS	S	PN 400*	16	1/2"	46	23	41	22,5	14	36	30	12	26
DWR NW 16 HS	S	PN 400*	20	3/4"	58	28	49	27,5	16	46	36	17	32
DWR NW 20 HS	S	PN 250*	25	1"	64	32	55	31	18	50	46	22	39
DWR NW 25 HS	S	PN 250*	30	1 1/4"	76	37	63	36,5	20	60	50	27	49
DWR NW 32 HS	S	PN 250*	38	1 1/2"	85	42	72	41	22	70	60	32	55

*) Safety factor: 1,6

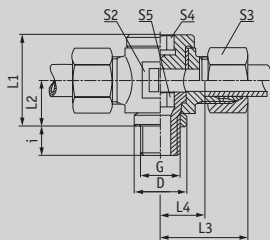
Construction Series: LL = Very Light – L = Light – S = Heavy — Ø = Tube Outside Diameter — PN = Nominal Pressure — PB = Maximal Working Pressure

DTM

Throttlefree Banjo Tees

Thread G: metric parallel

Article category 5218, 5318



Designation	Series	Pressure	Ø	G	L1	L2	L3	L4	i	S2	S3	S4	S5	D
DTM NW 04 HL	L	PB 250	6	M 10x1	24	12	28	13	8	19	14	6	6	14
DTM NW 06 HL	L	PB 250	8	M 12x1,5	30,5	15	29	14,5	12	22	17	6	6	17
DTM NW 08 HL	L	PB 250	10	M 14x1,5	30,5	16	30	15,5	12	22	19	8	8	19
DTM NW 10 HL	L	PB 250	12	M 16x1,5	36	18	33	18	12	27	22	10	10	21
DTM NW 13 HL	L	PB 250	15	M 18x1,5	40,5	20	36	21	12	30	27	12	12	23
DTM NW 16 HL	L	PB 100	18	M 22x1,5	46	23	38	21,5	14	36	32	14	14	27
DTM NW 20 HL	L	PB 100	22	M 26x1,5	50,5	25	42	26	16	41	36	17	17	31
DTM NW 25 HL	L	PB 100	28	M 33x2	63	32	48	31,5	18	50	41	22	22	39
DTM NW 32 HL	L	PB 100	35	M 42x2	75	37	57	35,5	20	60	50	27	27	49
DTM NW 40 HL	L	PB 100	42	M 48x2	85	42	63	40	22	70	60	32	32	55
DTM NW 03 HS	S	PB 400	6	M 12x1,5	30,5	15	31	16,5	12	22	17	6	6	17
DTM NW 04 HS	S	PB 400	8	M 14x1,5	30,5	16	31	16,5	12	22	19	8	8	19
DTM NW 06 HS	S	PB 400	10	M 16x1,5	36	18	35	18,5	12	27	22	10	10	21
DTM NW 08 HS	S	PB 400	12	M 18x1,5	40,5	20	37	20,5	12	30	24	12	12	23
DTM NW 10 HS	S	PB 400	14	M 20x1,5	42	21	41	23	14	32	27	12	12	25
DTM NW 13 HS	S	PB 400	16	M 22x1,5	46	23	41	22,5	14	36	30	14	14	27
DTM NW 16 HS	S	PB 400	20	M 27x2	57,5	28	49	27,5	16	46	36	17	17	32
DTM NW 20 HS	S	PB 250	25	M 33x2	63	32	55	31	18	50	46	22	22	39
DTM NW 25 HS	S	PB 250	30	M 42x2	75	37	63	36,5	20	60	50	27	27	49
DTM NW 32 HS	S	PB 250	38	M 48x2	85	42	72	41	22	70	60	32	32	55

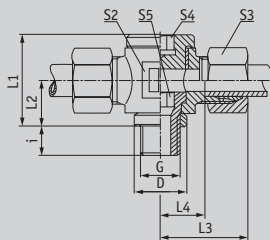
Construction Series: LL = Very Light – L = Light – S = Heavy — Ø = Tube Outside Diameter — PN = Nominal Pressure — PB = Maximal Working Pressure

DTR

Throttlefree Banjo Tees

Thread G: BSP parallel

Article category 5218, 5318



Designation	Series	Pressure	Ø	G	L1	L2	L3	L4	i	S2	S3	S4	S5	D
DTR NW 04 HL	L	PB 250	6	G 1/8 A	24	12	28	13	8	19	14	6	6	14
DTR NW 06 HL	L	PB 250	8	G 1/4 A	30,5	16	29	14,5	12	22	17	8	8	18
DTR NW 08 HL	L	PB 250	10	G 1/4 A	30,5	16	30	15,5	12	22	19	8	8	18
DTR NW 10 HL	L	PB 250	12	G 3/8 A	36	18	33	18	12	27	22	10	10	22
DTR NW 13 HL	L	PB 250	15	G 1/2 A	42	21	37	22	14	32	27	12	12	26
DTR NW 16 HL	L	PB 250	8	G 1/4 A	30,5	16	29	14,5	12	22	17	8	8	18
DTR NW 20 HL	L	PB 100	22	G 3/4 A	57,5	28	45	28,5	16	46	36	17	17	32
DTR NW 25 HL	L	PB 100	28	G 1 A	63	32	48	31,5	18	50	41	22	22	39
DTR NW 32 HL	L	PB 100	35	G 1 1/4 A	75	37	57	35,5	20	60	50	27	27	49
DTR NW 40 HL	L	PB 100	42	G 1 1/2 A	85	42	63	40	22	70	60	32	32	55
DTR NW 03 HS	S	PB 400	6	G 1/4 A	30,5	16	31	16,5	12	22	17	8	8	18
DTR NW 04 HS	S	PB 400	8	G 1/4 A	30,5	16	31	16,5	12	22	19	8	8	18
DTR NW 06 HS	S	PB 400	10	G 3/8 A	36	18	35	18,5	12	27	22	10	10	22
DTR NW 08 HS	S	PB 400	12	G 3/8 A	36	18	35	18,5	12	27	24	10	10	22
DTR NW 10 HS	S	PB 400	14	G 1/2 A	42	21	41	23	14	32	27	12	12	26
DTR NW 13 HS	S	PB 400	16	G 1/2 A	46	23,5	41	22,5	14	36	30	12	12	26
DTR NW 16 HS	S	PB 400	20	G 3/4 A	57,5	28	49	27,5	16	46	36	17	17	32
DTR NW 20 HS	S	PB 250	25	G 1 A	63	32	55	31	18	50	46	22	22	39
DTR NW 25 HS	S	PB 250	30	G 1/4 A	75	37	63	36,5	20	60	50	27	27	49
DTR NW 32 HS	S	PB 250	38	G 1 1/2 A	85	42	72	41	22	70	60	32	32	55

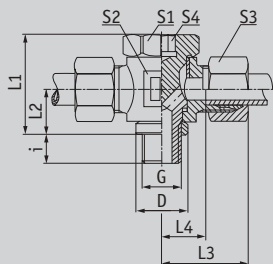
Construction Series: LL = Very Light – L = Light – S = Heavy — Ø = Tube Outside Diameter — PN = Nominal Pressure — PB = Maximal Working Pressure

STM

Throttlefree Banjo Tees

Thread G: metric parallel

Article category 5218, 5318



Designation	Series	Pressure	Ø	G	L1	L2	L3	L4	i	S1	S2	S3	S4	D
STM NW 04 HL	L	PB 250	6	M 10x1	26	12	28	13	8	19	19	14	6	14
STM NW 06 HL	L	PB 250	8	M 12x1,5	33	15	29	14,5	12	22	22	17	6	17
STM NW 08 HL	L	PB 250	10	M 14x1,5	34,5	16	30	15,5	12	22	22	19	8	19
STM NW 10 HL	L	PB 250	12	M 16x1,5	40	18	33	18	12	27	27	22	10	21
STM NW 13 HL	L	PB 250	15	M 18x1,5	44,5	20	36	21	12	30	30	27	12	23
STM NW 16 HL	L	PB 100	18	M 22x1,5	50,5	23	38	21,5	14	32	36	32	14	27
STM NW 20 HL	L	PB 100	22	M 26x1,5	55,5	25	42	26	16	36	41	36	17	31
STM NW 25 HL	L	PB 100	28	M 33x2	67,5	32	48	31,5	18	46	50	41	22	39
STM NW 32 HL	L	PB 100	35	M 42x2	80	37	57	35,5	20	60	60	50	27	49
STM NW 40 HL	L	PB 100	42	M 48x2	90,5	42	63	40	22	65	70	60	32	55
STM NW 03 HS	S	PB 400	6	M 12x1,5	33	15	31	16,5	12	22	22	17	6	17
STM NW 04 HS	S	PB 400	8	M 14x1,5	34,5	16	31	16,5	12	22	22	19	8	19
STM NW 06 HS	S	PB 400	10	M 16x1,5	40	18	35	18,5	12	27	27	22	10	21
STM NW 08 HS	S	PB 400	12	M 18x1,5	44,5	20	37	20,5	12	30	30	24	12	23
STM NW 10 HS	S	PB 400	14	M 20x1,5	46,5	21	41	23	14	32	32	27	12	25
STM NW 13 HS	S	PB 400	16	M 22x1,5	50,5	23	41	22,5	14	32	36	30	14	27
STM NW 16 HS	S	PB 400	20	M 27x2	61,5	28	49	27,5	16	41	46	36	17	32
STM NW 20 HS	S	PB 250	25	M 33x2	67,5	32	55	31	18	46	50	46	22	39
STM NW 25 HS	S	PB 250	30	M 42x2	80	37	63	36,5	20	60	60	50	27	49
STM NW 32 HS	S	PB 250	38	M 48x2	90,5	42	72	41	22	65	70	60	32	55

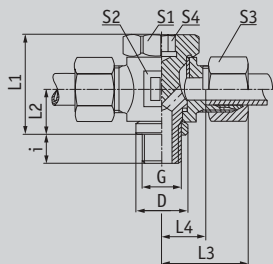
Construction Series: LL = Very Light – L = Light – S = Heavy — Ø = Tube Outside Diameter — PN = Nominal Pressure — PB = Maximal Working Pressure

STR

Throttlefree Banjo Tees

Thread G: BSP parallel

Article category 5218, 5318



Designation	Series	Pressure	Ø	G	L1	L2	L3	L4	i	S1	S2	S3	S4	D
STR NW 04 HL	L	PB 250	6	G 1/8 A	26	12	28	13	8	19	19	14	6	14
STR NW 06 HL	L	PB 250	8	G 1/4 A	34,5	16	29	14,5	12	22	22	17	8	18
STR NW 08 HL	L	PB 250	10	G 1/4 A	34,5	16	30	15,5	12	22	22	19	8	18
STR NW 10 HL	L	PB 250	12	G 3/8 A	40	18	33	18	12	27	27	22	10	22
STR NW 13 HL	L	PB 250	15	G 1/2 A	46,5	21	37	22	14	32	32	27	12	26
STR NW 16 HL	L	PB 100	18	G 1/2 A	51	23,5	38	21,5	14	32	36	32	14	26,5
STR NW 20 HL	L	PB 100	22	G 3/4 A	61,5	28	45	28,5	16	41	46	36	17	32
STR NW 25 HL	L	PB 100	28	G 1 A	67,5	32	48	31,5	18	46	50	41	22	39
STR NW 32 HL	L	PB 100	35	G 1 1/4 A	80	37	57	35,5	20	60	60	50	27	49
STR NW 40 HL	L	PB 100	42	G 1 1/2 A	90,5	42	63	40	22	65	70	60	32	55
STR NW 03 HS	S	PB 400	6	G 1/4 A	34,5	16	31	16,5	12	22	22	17	8	18
STR NW 04 HS	S	PB 400	8	G 1/4 A	34,5	16	31	16,5	12	22	22	19	8	18
STR NW 06 HS	S	PB 400	10	G 3/8 A	40	18	35	18,5	12	27	27	22	10	22
STR NW 08 HS	S	PB 400	12	G 3/8 A	40	18	35	18,5	12	27	27	24	10	22
STR NW 10 HS	S	PB 400	14	G 1/2 A	46,5	21	41	23	14	32	32	27	12	26
STR NW 13 HS	S	PB 400	16	G 1/2 A	51	23,5	41	22,5	14	32	36	30	14	26,5
STR NW 16 HS	S	PB 400	20	G 3/4 A	61,5	28	49	27,5	16	41	46	36	17	32
STR NW 20 HS	S	PB 250	25	G 1 A	67,5	32	55	31	18	46	50	46	22	39
STR NW 25 HS	S	PB 250	30	G 1 1/4 A	80	37	63	36,5	20	60	60	50	27	49
STR NW 32 HS	S	PB 250	38	G 1 1/2 A	90,5	42	72	41	22	65	70	60	32	55

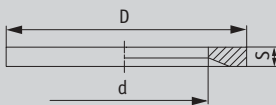
Construction Series: LL = Very Light – L = Light – S = Heavy — Ø = Tube Outside Diameter — PN = Nominal Pressure — PB = Maximal Working Pressure

WD

Captive Seals according DIN 3869

Material: NBR (Perbunan®)

Article category 5220



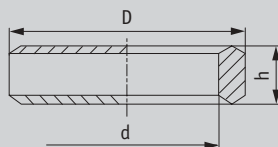
Designation	M	G	D	d	S
WD 8-1	M 8x1		9,9	6,5	1
WD 10-1R 1/8	M 10x1	G 1/8A	11,9	8,4	1
WD 12-1,5	M 12x1,5		14,4	9,8	1,5
WD 14-1,5R 1/4	M 14x1,5	G 1/4A	16,5	11,6	1,5
WD 16-1,5	M 16x1,5		18,9	13,8	1,5
WD 18-1,5	M 18x1,5		20,9	15,7	1,5
WD 20-1,5	M 20x1,5		22,9	17,8	1,5
WD 22-1,5	M 22x1,5		24,3	19,6	1,5
WD 26-27-R 3/4	M 26x1,5 M 27x2	G 3/4A	29,2	23,9	1,5
WD 33-2R 1	M 33x2	G 1A	35,7	29,7	2
WD 42-2R1 1/4	M 42x2	G 1"1/4A	45,8	38,8	2
WD 48-2R 1 1/2	M 48x2	G 1"1/2A	50,7	44,7	2
WD R 3/8		G 3/8A	18,9	14,7	1,5
WD R 1/2		G 1/2A	23,9	18,5	1,5
WD R 2					

Construction Series: LL = Very Light – L = Light – S = Heavy — Ø = Tube Outside Diameter — PN = Nominal Pressure — PB = Maximal Working Pressure

DKM

Seal Rings for banjo couplings

Article category 5223



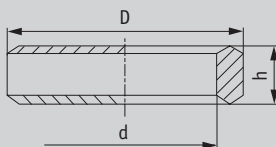
Designation	Thread for stud ends		D	d	h
DKM 10	M 10x1	G 1/8 A	14	10	4
DKM 12	M 12x1,5		17	12	5
DKM 14	M 14x1,5		19	14	5
DKM 16	M 16x1,5		21	16	5
DKM 18	M 18x1,5		23	18	5
DKM 20	M 20x1,5		25	20	5
DKM 22	M 22x1,5		27	22	5
DKM 26	M 26x1,5		31	26	5
DKM 27	M 27x2		32	27	5,5
DKM 33	M 33x2		39	33	7
DKM 42	M 42x2	G 1 1/4 A	49	42	7
DKM 48	M 48x2	G 1 1/2 A	55	48	7

Construction Series: LL = Very Light – L = Light – S = Heavy — Ø = Tube Outside Diameter — PN = Nominal Pressure —
PB = Maximal Working Pressure

DKR

Seal Rings for banjo couplings

Article category 5223



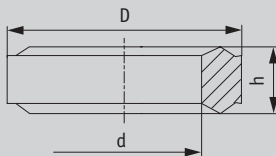
Designation	Thread for stud ends	D	d	h
DKR 1/8	G 1/8 A	14	9,8	3,2
DKR 1/4	G 1/4 A	18	13,2	5
DKR 3/8	G 3/8 A	22	16,8	5
DKR 1/2	G 1/2 A	26	21	5,5
DKR 3/4	G 3/4 A	32	26,5	5,5
DKR 1	G 1 A	39	33,3	7

Construction Series: LL = Very Light – L = Light – S = Heavy — Ø = Tube Outside Diameter — PN = Nominal Pressure — PB = Maximal Working Pressure

DKI

Seal Rings for banjo couplings, female thread

Article category 5224



Designation	Thread for stud ends	D	d	h
DKI 1/4	G 1/4	11,2	6	4,5
DKI 1/2	G 1/2	18,5	12	5

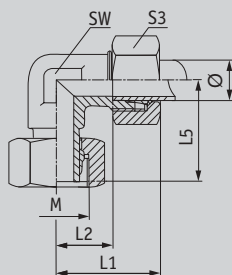
Construction Series: LL = Very Light – L = Light – S = Heavy — Ø = Tube Outside Diameter — PN = Nominal Pressure —
PB = Maximal Working Pressure

VEW

Adjustable Stud Elbows

Adjustable Body according
to DIN 3952

Article category 5125, 5225, 5325



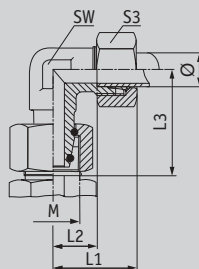
Designation	Series	Pressure	Ø	M	L1	L2	L3	SW	S3
VEW NW 04 HL	L	PN 315	6	M 12x1,5	27	12	26	12	14
VEW NW 06 HL	L	PN 315	8	M 14x1,5	29	14	27	12	17
VEW NW 08 HL	L	PN 315	10	M 16x1,5	30	15	29	14	19
VEW NW 10 HL	L	PN 315	12	M 18x1,5	32	17	29,5	17	22
VEW NW 13 HL	L	PN 315	15	M 22x1,5	36	21	32,5	19	27
VEW NW 16 HL	L	PN 315	18	M 26x1,5	40	23,5	35,5	24	32
VEW NW 20 HL	L	PN 160	22	M 30x2	44	27,5	38	27	36
VEW NW 25 HL	L	PN 160	28	M 36x2	47	30,5	41,5	36	41
VEW NW 32 HL	L	PN 160	35	M 45x2	56	34,5	51	41	50
VEW NW 40 HL	L	PN 160	42	M 52x2	63	40	56	50	60
VEW NW 03 HS	S	PN 630	6	M 14x1,5	31	16	27	12	17
VEW NW 04 HS	S	PN 630	8	M 16x1,5	32	17	27,5	14	19
VEW NW 06 HS	S	PN 630	10	M 18x1,5	34	17,5	29,5	17	22
VEW NW 08 HS	S	PN 630	12	M 20x1,5	38	21,5	30,5	17	24
VEW NW 10 HS	S	PN 630	14	M 22x1,5	40	22	35	19	27
VEW NW 13 HS	S	PN 400	16	M 24x1,5	43	24,5	36,5	24	30
VEW NW 16 HS	S	PN 400	20	M 30x2	48	26,5	44,5	27	36
VEW NW 20 HS	S	PN 400	25	M 36x2	54	30	49,5	36	46
VEW NW 25 HS	S	PN 400	30	M 42x2	62	35,5	55	41	50
VEW NW 32 HS	S	PN 315	38	M 52x2	72	41	63	50	60

Construction Series: LL = Very Light – L = Light – S = Heavy — Ø = Tube Outside Diameter — PN = Nominal Pressure — PB = Maximal Working Pressure

VEWO

Adjustable Stud Elbows
with O-Ring

Article category 5226, 5326



Designation	Series	Pressure	Ø	M	L1	L2	L3	SW	S3	O-Ring
VEWO NW 04 HL	L	PN 315	6	M 12x1,5	26	12	27	12	14	4x1,5
VEWO NW 06 HL	L	PN 315	8	M 14x1,5	27,5	14	29	12	17	6x1,5
VEWO NW 08 HL	L	PN 315	10	M 15x1,5	29	15	30	14	19	7,5x1,5
VEWO NW 10 HL	L	PN 315	12	M 18x1,5	29,5	17	32	17	22	9x1,5
VEWO NW 13 HL	L	PN 315	15	M 22x1,5	32,5	21	36	19	27	12x2
VEWO NW 16 HL	L	PN 315	18	M 26x1,5	35,5	23,5	40	24	32	15x2
VEWO NW 20 HL	L	PN 160	22	M 30x2	38,5	27,5	44	27	36	20x2
VEWO NW 25 HL	L	PN 160	28	M 36x2	41,5	30,5	47	36	41	26x2
VEWO NW 32 HL	L	PN 160	35	M 45x2	51	34,5	56	41	50	32x2,5
VEWO NW 40 HL	L	PN 160	42	M 52x2	56	40	63	50	60	38x2,5
VEWO NW 03 HS	S	PN 630	6	M 14x1,5	27	16	31	12	17	4x1,5
VEWO NW 04 HS	S	PN 630	8	M 16x1,5	27,5	17	32	14	19	6x1,5
VEWO NW 06 HS	S	PN 630	10	M 18x1,5	30	17,5	34	17	22	7,5x1,5
VEWO NW 08 HS	S	PN 630	12	M 20x1,5	31	21,5	38	17	24	9x1,5
VEWO NW 10 HS	S	PN 630	14	M 22x1,5	35	22	40	19	27	10x2
VEWO NW 13 HS	S	PN 400	16	M 24x1,5	36,5	24,5	43	24	30	12x2
VEWO NW 16 HS	S	PN 400	20	M 30x2	44,5	26,5	48	27	36	16,3x2,4
VEWO NW 20 HS	S	PN 400	25	M 36x2	50	30	54	36	46	20,3x2,4
VEWO NW 25 HS	S	PN 400	30	M 42x2	55	35,5	62	41	50	25,3x2,4
VEWO NW 32 HS	S	PN 315	38	M 52x2	63	41	72	50	60	33,3x2,4

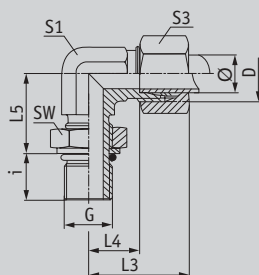
Construction Series: LL = Very Light – L = Light – S = Heavy — Ø = Tube Outside Diameter — PN = Nominal Pressure — PB = Maximal Working Pressure

EWOM

Adjustable Stud Elbows with O-Ring

Thread G: Metric parallel

Article category 5226, 5326



Designation	Series	Pressure	Ø	D	G	L3	L4	L5	i	S1	S3	SW	O-Ring
EWOM NW 04 HL	L	PN 250	6	M 12x1,5	M 10x1	27	12	22	8	12	14	14	8x1,5
EWOM NW 06 HL	L	PN 250	8	M 14x1,5	M 12x1,5	29	14	27	12	12	17	17	9,3x2,4
EWOM NW 08 HL	L	PN 250	10	M 16x1,5	M 14x1,5	30	15	28	12	14	19	19	11,3x2,4
EWOM NW 10 HL	L	PN 250	12	M 18x1,5	M 16x1,5	32	17	29	12	17	22	22	13,3x2,4
EWOM NW 13 HL	L	PN 250	15	M 22x1,5	M 18x1,5	37	21	36	12	19	27	24	15,3x2,4
EWOM NW 16 HL	L	PN 160	18	M 26x1,5	M 22x1,5	40	23,5	37	14	24	32	27	19,3x2,4
EWOM NW 20 HL	L	PN 160	22	M 30x2	M 26x1,5	44	27,5	43	16	27	36	32	23,3x2,4
EWOM NW 25 HL	L	PN 100	28	M 36x2	M 33x2	47	30,5	42	18	36	41	41	29,5x3
EWOM NW 32 HL	L	PN 100	35	M 45x2	M 42x2	56	34,5	50	20	41	50	50	38x3
EWOM NW 40 HL	L	PN 100	42	M 52x2	M 48x2	62	39	56	22	50	60	55	44,5x3
EWOM NW 03 HS	S	PN 630	6	M 14x1,5	M 12x1,5	31	16	26	12	12	17	17	9,3x2,4
EWOM NW 04 HS	S	PN 630	8	M 16x1,5	M 14x1,5	32	17	27	12	14	19	19	11,3x2,4
EWOM NW 06 HS	S	PN 630	10	M 18x1,5	M 16x1,5	34	17,5	29	12	17	22	22	13,3x2,4
EWOM NW 08 HS	S	PN 630	12	M 20x1,5	M 18x1,5	38	21,5	32	12	19	24	24	15,3x2,4
EWOM NW 10 HS	S	PN 630	14	M 22x1,5	M 20x1,5	40	22	34	14	19	27	27	17,3x2,4
EWOM NW 13 HS	S	PN 400	16	M 24x1,5	M 22x1,5	43	24,5	37	14	24	30	27	19,3x2,4
EWOM NW 16 HS	S	PN 400	20	M 30x2	M 27x2	47	26,5	39	16	27	36	32	23,5x3
EWOM NW 20 HS	S	PN 400	25	M 36x2	M 33x2	54	30	45	18	36	46	41	29,5x3
EWOM NW 25 HS	S	PN 250	30	M 42x2	M 42x2	62	35,5	50	20	41	50	50	38x3
EWOM NW 32 HS	S	PN 250	38	M 52x2	M 48x2	72	41	56	22	50	60	55	44,5x3

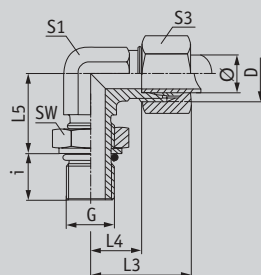
Construction Series: LL = Very Light – L = Light – S = Heavy — Ø = Tube Outside Diameter — PN = Nominal Pressure — PB = Maximal Working Pressure

EWOR

Adjustable Stud Elbows with O-Ring

Thread G: BSP parallel

Article category 5226, 5326



Designation	Series	Pressure	Ø	D	G	L3	L4	L5	i	S1	S3	SW	O-Ring
EWOR NW 04 HL	L	PN 250	6	M 12x1,5	G 1/8 A	26,5	12	21,5	8	12	14	14	8x1,5
EWOR NW 06 HL	L	PN 250	8	M 14x1,5	G 1/4 A	28,5	14	26	12	14	17	19	10x2
EWOR NW 06 HL 3/8	L	PN 250	8	M 14x1,5	G 3/8 A	31,5	17	28,5	12	17	22	22	14x12,5
EWOR NW 08 HL	L	PN 250	10	M 16x1,5	G 1/4 A	29,5	15	26	12	14	19	19	10x2
EWOR NW 10 HL	L	PN 250	12	M 18x1,6	G 3/8 A	31,5	17	28,5	12	17	22	22	14x12,5
EWOR NW 13 HL	L	PN 250	15	M 22x1,5	G 1/2 A	36	21	33,5	14	19	27	27	18x3
EWOR NW 16 HL	L	PN 160	18	M 26x1,5	G 1/2 A	39,5	23,5	36,5	14	24	32	27	18x3
EWOR NW 20 HL	L	PN 160	22	M 30x2	G 3/4 A	43,5	27,5	41	16	27	36	32	23,5x3
EWOR NW 25 HL	L	PN 100	28	M 36x2	G 1 A	47	30,5	45	18	36	41	41	29x3,5
EWOR NW 32 HL	L	PN 100	35	M 45x2	G 1 1/4 A	56	34,5	50	20	41	50	50	38x3,5
EWOR NW 40 HL	L	PN 100	42	M 52x2	G 1 1/2 A	62,5	40	56	22	50	60	55	44x3,5
EWOR NW 03 HS	S	PN 630	6	M 14x1,5	G 1/4 A	30,5	15	26	12	12	17	19	10x2
EWOR NW 04 HS	S	PN 630	8	M 16x1,5	G 1/4 A	31,5	17	27	12	14	19	19	10x2
EWOR NW 06 HS	S	PN 630	10	M 18x1,5	G 3/8 A	33,5	17,5	28,5	12	17	22	22	14x2,5
EWOR NW 08 HS	S	PN 630	12	M 20x1,5	G 3/8 A	37,5	21,5	32,5	12	19	24	22	14x2,5
EWOR NW 10 HS	S	PN 630	14	M 22x1,5	G 1/2 A	39,5	22	33,5	14	19	27	27	18x3
EWOR NW 13 HS	S	PN 400	16	M 24x1,5	G 1/2 A	42,5	24,5	36,5	14	24	30	27	18x3
EWOR NW 16 HS	S	PN 400	20	M 30x2	G 3/4 A	47	26,5	41	16	27	36	32	23,5x3
EWOR NW 20 HS	S	PN 400	25	M 36x2	G 1 A	54	30	45	18	36	46	41	29x3,5
EWOR NW 25 HS	S	PN 250	30	M 42x2	G 1 1/4 A	62	35,5	50	20	41	50	50	38x3,5
EWOR NW 32 HS	S	PN 250	38	M 52x2	G 1 1/2 A	71,5	41	56	22	50	60	55	44x3,5

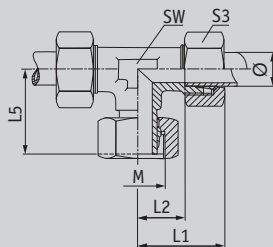
Construction Series: LL = Very Light – L = Light – S = Heavy — Ø = Tube Outside Diameter — PN = Nominal Pressure — PB = Maximal Working Pressure

VET

Adjustable Stud Branch Tees

Body according to DIN 3953

Article category 5127, 5227, 5327



Designation	Series	Pressure	Ø	M	L1	L2	L5	SW	S3
VET NW 04 HL	L	PN 315	6	M 12x1,5	27	12	26	12	14
VET NW 06 HL	L	PN 315	8	M 14x1,5	29	14	27	12	17
VET NW 08 HL	L	PN 315	10	M 16x1,5	30	15	28,5	14	19
VET NW 10 HL	L	PN 315	12	M 18x1,5	32	17	29	17	22
VET NW 13 HL	L	PN 315	15	M 22x1,5	36	21	32	19	27
VET NW 16 HL	L	PN 315	18	M 26x1,5	40	23,5	35	24	32
VET NW 20 HL	L	PN 160	22	M 30x2	44	27,5	38	27	36
VET NW 25 HL	L	PN 160	28	M 36x2	47	30,5	41,5	36	41
VET NW 32 HL	L	PN 160	35	M 45x2	56	34,5	51	41	50
VET NW 40 HL	L	PN 160	42	M 52x2	63	40	56	50	60
VET NW 03 HS	S	PN 630	6	M 14x1,5	31	16	27	12	17
VET NW 04 HS	S	PN 630	8	M 16x1,5	32	17	27	14	19
VET NW 06 HS	S	PN 630	10	M 18x1,5	34	17,5	29,5	17	22
VET NW 08 HS	S	PN 630	12	M 20x1,5	38	21,5	30,5	17	24
VET NW 10 HS	S	PN 630	14	M 22x1,5	40	22	34,5	19	27
VET NW 13 HS	S	PN 400	16	M 24x1,5	43	24,5	36	24	30
VET NW 16 HS	S	PN 400	20	M 30x2	48	26,5	44	27	36
VET NW 20 HS	S	PN 400	25	M 36x2	54	30	49,5	36	46
VET NW 25 HS	S	PN 400	30	M 42x2	62	36,5	55	41	50
VET NW 32 HS	S	PN 315	38	M 52x2	72	41	63	50	60

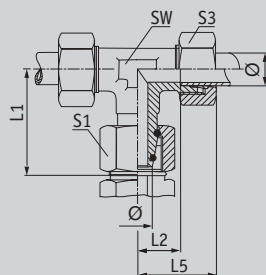
Construction Series: LL = Very Light – L = Light – S = Heavy — Ø = Tube Outside Diameter — PN = Nominal Pressure — PB = Maximal Working Pressure

VETO

Adjustable Stud

Branch Tees with O-Ring

Article category 5228, 5328



Designation	Series	Pressure	Ø	L1	L2	L5	SW	S1	S3	O-Ring
VETO NW 04 HL	L	PN 315	6	26	12	27	12	14	14	4x1,5
VETO NW 06 HL	L	PN 315	8	27,5	14	29	12	17	17	6x1,5
VETO NW 08 HL	L	PN 315	10	29	15	30	14	19	19	7,5x1,5
VETO NW 10 HL	L	PN 315	12	29,5	17	32	17	22	22	9x1,5
VETO NW 13 HL	L	PN 315	15	32,5	21	36	19	27	27	12x2
VETO NW 16 HL	L	PN 315	18	35,5	23,5	40	24	32	32	15x2
VETO NW 20 HL	L	PN 160	22	38,5	27,5	44	27	36	36	20x2
VETO NW 25 HL	L	PN 160	28	41,5	30,5	47	36	41	41	26x2
VETO NW 32 HL	L	PN 160	35	51	34,5	56	41	50	50	32x2,5
VETO NW 40 HL	L	PN 160	42	56	40	63	50	60	60	38x2,5
VETO NW 03 HS	S	PN 630	6	27	16	31	12	17	17	4x1,5
VETO NW 04 HS	S	PN 630	8	27,5	17	32	14	19	19	6x1,5
VETO NW 06 HS	S	PN 630	10	30	17,5	34	17	22	22	7,5x1,5
VETO NW 08 HS	S	PN 630	12	31	21,5	38	17	24	24	9x1,5
VETO NW 10 HS	S	PN 630	14	35	22	40	19	27	27	10x2
VETO NW 13 HS	S	PN 400	16	36,5	24,5	43	24	30	30	12x2
VETO NW 16 HS	S	PN 400	20	44,5	26,5	48	27	36	36	16,3x2,4
VETO NW 20 HS	S	PN 400	25	50	30	54	36	46	46	20,3x2,4
VETO NW 25 HS	S	PN 400	30	55	35,5	62	41	50	50	25,3x2,4
VETO NW 32 HS	S	PN 315	38	63	41	72	50	60	60	33,3x2,4

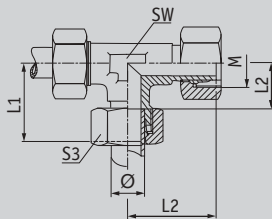
Construction Series: LL = Very Light – L = Light – S = Heavy — Ø = Tube Outside Diameter — PN = Nominal Pressure — PB = Maximal Working Pressure

VEL

Adjustable Stud Barrel Tees

Body according to DIN 3954

Article category 5129, 5229, 5329



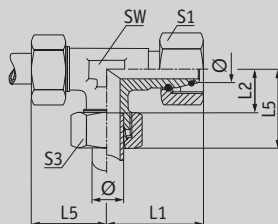
Designation	Series	Pressure	Ø	M	L1	L2	L5	SW	S3
VEL NW 04 HL	L	PN 315	6	M 12x1,5	27	12	26	12	14
VEL NW 06 HL	L	PN 315	8	M 14x1,5	29	14	27	12	17
VEL NW 08 HL	L	PN 315	10	M 16x1,5	30	15	28,5	14	19
VEL NW 10 HL	L	PN 315	12	M 18x1,5	32	17	29	17	22
VEL NW 13 HL	L	PN 315	15	M 22x1,5	36	21	32	19	27
VEL NW 16 HL	L	PN 315	18	M 26x1,5	40	23,5	35	24	32
VEL NW 20 HL	L	PN 160	22	M 30x2	44	27,5	38	27	36
VEL NW 25 HL	L	PN 160	28	M 36x2	47	30,5	41,5	36	41
VEL NW 32 HL	L	PN 160	35	M 45x2	56	34,5	51	41	50
VEL NW 40 HL	L	PN 160	42	M 52x2	63	40	56	50	60
VEL NW 03 HS	S	PN 630	6	M 14x1,5	31	16	27	12	17
VEL NW 04 HS	S	PN 630	8	M 16x1,5	32	17	27	14	19
VEL NW 06 HS	S	PN 630	10	M 18x1,5	34	17,5	29,5	17	22
VEL NW 08 HS	S	PN 630	12	M 20x1,5	38	21,5	30,5	17	24
VEL NW 10 HS	S	PN 630	14	M 22x1,5	40	22	34,5	19	27
VEL NW 13 HS	S	PN 400	16	M 24x1,5	43	24,5	36	24	30
VEL NW 16 HS	S	PN 400	20	M 30x2	48	26,5	44	27	36
VEL NW 20 HS	S	PN 400	25	M 36x2	54	30	49,5	36	46
VEL NW 25 HS	S	PN 400	30	M 42x2	62	35,5	55	41	50
VEL NW 32 HS	S	PN 315	38	M 52x2	72	41	63	50	60

Construction Series: LL = Very Light – L = Light – S = Heavy — Ø = Tube Outside Diameter — PN = Nominal Pressure — PB = Maximal Working Pressure

VELO

Adjustable Stud Barrel Tees with O-Ring

Article category 5229, 5329



Designation	Series	Pressure	Ø	L1	L2	L5	SW	S1	S3	O-Ring
VELO NW 04 HL	L	PN 315	6	26	12	27	12	14	14	4x1,5
VELO NW 06 HL	L	PN 315	8	27,5	14	29	12	17	17	6x1,5
VELO NW 08 HL	L	PN 315	10	29	15	30	14	19	19	7,5x1,5
VELO NW 10 HL	L	PN 315	12	29,5	17	32	17	22	22	9x1,5
VELO NW 13 HL	L	PN 315	15	32,5	21	36	19	27	27	12x2
VELO NW 16 HL	L	PN 315	18	35,5	23,5	40	24	32	32	15x2
VELO NW 20 HL	L	PN 160	22	38,5	27,5	44	27	36	36	20x2
VELO NW 25 HL	L	PN 160	28	41,5	30,5	47	36	41	41	26x2
VELO NW 32 HL	L	PN 160	35	51	34,5	56	41	50	50	32x2,5
VELO NW 40 HL	L	PN 160	42	56	40	63	50	60	60	38x2,5
VELO NW 03 HS	S	PN 630	6	27	16	31	12	17	17	4x1,5
VELO NW 04 HS	S	PN 630	8	27,5	17	32	14	19	19	6x1,5
VELO NW 06 HS	S	PN 630	10	30	17,5	34	17	22	22	7,5x1,5
VELO NW 08 HS	S	PN 630	12	31	21,5	38	17	24	24	9x1,5
VELO NW 10 HS	S	PN 630	14	35	22	40	19	27	27	10x2
VELO NW 13 HS	S	PN 400	16	36,5	24,5	43	24	30	30	12x2
VELO NW 16 HS	S	PN 400	20	44,5	26,5	48	27	36	36	16,3x2,4
VELO NW 20 HS	S	PN 400	25	50	30	54	36	46	46	20,3x2,4
VELO NW 25 HS	S	PN 400	30	55	35,5	62	41	50	50	25,3x2,4
VELO NW 32 HS	S	PN 315	38	63	41	72	50	60	60	33,3x2,4

Construction Series: LL = Very Light – L = Light – S = Heavy — Ø = Tube Outside Diameter — PN = Nominal Pressure — PB = Maximal Working Pressure

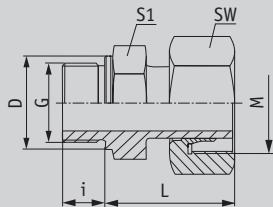
AVM

Male Stud Standpipes

Typ of sealing: B according to DIN 3852

Thread G: metric parallel

Article category 5230, 5330



Designation	Series	Pressure	Ø	G	M	L	i	S1	SW	D
AVM NW 04 L	L	PN 315	6	M 10x1	M 12x1,5	24,5	8	14	14	14
AVM NW 06 L	L	PN 315	8	M 12x1,5	M 14x1,5	26,5	12	17	17	17
AVM NW 08 L	L	PN 315	10	M 14x1,5	M 16x1,5	27,5	12	19	19	19
AVM NW 10 L	L	PN 315	12	M 16x1,5	M 18x1,5	30,5	12	22	22	21
AVM NW 10 L 18	L	PN 315	12	M 18x1,5	M 18x1,5	30,5	12	22	22	23
AVM NW 10 L 22	L	PN 315	12	M 18x1,5	M 22x1,5	31,5	14	22	32	27
AVM NW 13 L	L	PN 315	15	M 18x1,5	M 22x1,5	31,5	12	24	27	23
AVM NW 13 L 22	L	PN 315	15	M 22x1,5	M 22x1,5	31,5	14	24	32	27
AVM NW 16 L	L	PN 315	18	M 22x1,5	M 26x1,5	31,5	14	27	32	27
AVM NW 20 L	L	PN 250	22	M 26x1,5	M 30x2	32,5	16	32	36	31
AVM NW 25 L	L	PN 250	28	M 33x2	M 36x2	35	18	41	41	39
AVM NW 32 L	L	PN 250	35	M 42x2	M 45x2	42,5	20	50	50	49
AVM NW 40 L	L	PN 250	42	M 48x2	M 52x2	46,5	22	55	60	55
AVM NW 03 S	S	PN 630	6	M 12x1,5	M 14x1,5	27	12	17	17	17
AVM NW 04 S	S	PN 630	8	M 14x1,5	M 16x1,5	29,5	12	19	19	19
AVM NW 06 S	S	PN 630	10	M 16x1,5	M 18x1,5	32	12	22	22	21
AVM NW 08 S	S	PN 630	12	M 18x1,5	M 20x1,5	34	12	24	24	23
AVM NW 10 S	S	PN 630	14	M 20x1,5	M 22x1,5	36,5	14	27	27	25
AVM NW 13 S	S	PN 400	16	M 22x1,5	M 24x1,5	37	14	27	30	27
AVM NW 16 S	S	PN 400	20	M 27x2	M 30x2	43	16	32	36	32
AVM NW 20 S	S	PN 400	25	M 33x2	M 36x2	48	18	41	46	39
AVM NW 20 S M 42	S	PN 400	25	M 42x2	M 36x2	51	20	50	46	49
AVM NW 25 S	S	PN 250	30	M 42x2	M 42x2	51	20	50	50	49
AVM NW 32 S	S	PN 250	38	M 48x2	M 52x2	60	22	55	60	55

Construction Series: LL = Very Light – L = Light – S = Heavy — Ø = Tube Outside Diameter — PN = Nominal Pressure — PB = Maximal Working Pressure

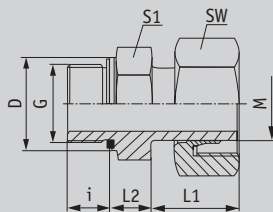
AVM-ED

Male Stud Standpipe

Adapters with Captive Seal in
Perbunan

Thread: metric parallel

Article category 5230, 5330



Designation	Series	Pressure	Ø	G	M	L1	L2	i	S1	S3	D
AVM NW 04 L ED	L	PN 315	6	M 10x1	M 12x1,5	20,5	6	8	14	14	14
AVM NW 06 L ED	L	PN 315	8	M 12x1,5	M 14x1,5	20,6	7	12	17	17	17
AVM NW 08 L ED	L	PN 315	10	M 14x1,5	M 16x1,5	20,5	7	12	19	19	19
AVM NW 10 L ED	L	PN 315	12	M 16x1,5	M 18x1,5	22	8,5	12	22	22	21,7
AVM NW 13 L ED	L	PN 315	15	M 18x1,5	M 22x1,5	20,5	8,5	12	24	27	23,7
AVM NW 16 L ED	L	PN 315	18	M 22x1,5	M 26x1,5	21,5	10	14	27	32	27
AVM NW 20 L ED	L	PN 160	22	M 26x1,5	M 30x2	22,5	10	16	32	36	31,7
AVM NW 25 L ED	L	PN 160	28	M 33x2	M 36x2	24	11	18	41	41	39,7
AVM NW 32 L ED	L	PN 160	35	M 42x2	M 45x2	28,5	12	20	50	50	49,7
AVM NW 40 L ED	L	PN 160	42	M 48x2	M 52x2	29,5	14	22	55	60	55
AVM NW 03 S ED	S	PN 630	6	M 12x1,5	M 14x1,5	19	7	12	17	17	17
AVM NW 04 S ED	S	PN 630	8	M 14x1,5	M 16x1,5	19	10	12	19	19	19
AVM NW 06 S ED	S	PN 630	10	M 16x1,5	M 18x1,5	21	8,5	12	22	22	21,7
AVM NW 08 S ED	S	PN 630	12	M 18x1,5	M 20x1,5	22	12	12	24	24	23,7
AVM NW 10 S ED	S	PN 630	14	M 20x1,5	M 22x1,5	23,5	12,5	14	27	27	25,7
AVM NW 13 S ED	S	PN 400	16	M 22x1,5	M 24x1,5	23,5	13	14	27	30	27
AVM NW 16 S ED	S	PN 400	20	M 27x2	M 30x2	28	15	16	32	36	32
AVM NW 20 S ED	S	PN 400	25	M 33x2	M 36x2	31	17	18	41	46	39,7
AVM NW 25 S ED	S	PN 400	30	M 42x2	M 42x2	33,5	17	20	50	50	49,7
AVM NW 32 S ED	S	PN 315	38	M 48x2	M 52x2	38	20	22	55	60	55

Construction Series: LL = Very Light – L = Light – S = Heavy — Ø = Tube Outside Diameter — PN = Nominal Pressure — PB = Maximal Working Pressure

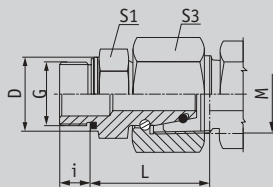
AOVM-ED

Adjustable Male Stud Standpipe

Adapters with Captive Seal
and O-Ring in Perbunan

Thread G: metric parallel

Article category 5219, 5319



Designation	Series	Pressure	Ø	G	M	L	i	S1	S3	D	O-Ring
AOVM NW 04 L ED	L	PN 315	6	M 10x1	M 12x1,5	24,5	8	14	14	13,9	4x1,5
AOVM NW 06 L ED	L	PN 315	8	M 12x1,5	M 14x1,5	26,5	12	17	17	16,9	6x1,5
AOVM NW 08 L ED	L	PN 315	10	M 14x1,5	M 16x1,5	27,5	12	19	19	18,9	7,5x1,5
AOVM NW 10 L ED	L	PN 315	12	M 16x1,5	M 18x1,5	30,5	12	22	22	21,9	9x1,5
AOVM NW 13 L ED	L	PN 315	15	M 18x1,5	M 22x1,5	31,5	12	24	27	23,9	12x2
AOVM NW 16 L ED	L	PN 315	18	M 22x1,5	M 26x1,5	31,5	14	27	32	26,9	15x2
AOVM NW 20 L ED	L	PN 160	22	M 26x1,5	M 30x2	32,5	16	32	36	31,9	20x2
AOVM NW 25 L ED	L	PN 160	28	M 33x2	M 36x2	35	18	41	41	39,9	26x2
AOVM NW 32 L ED	L	PN 160	35	M 42x2	M 45x2	42,5	20	50	50	49,9	32x2,5
AOVM NW 40 L ED	L	PN 160	42	M 48x2	M 52x2	46,5	22	55	60	54,9	38x2,5
AOVM NW 03 S ED	S	PN 630	6	M 12x1,5	M 14x1,5	27	12	17	17	16,9	4x1,5
AOVM NW 04 S ED	S	PN 630	8	M 14x1,5	M 16x1,5	29,5	12	19	19	18,9	6x1,5
AOVM NW 06 S ED	S	PN 630	10	M 16x1,5	M 18x1,5	32	12	22	22	21,9	7,5x1,5
AOVM NW 08 S ED	S	PN 630	12	M 18x1,5	M 20x1,5	34	12	24	24	23,9	9x1,5
AOVM NW 10 S ED	S	PN 630	14	M 20x1,5	M 22x1,5	36,5	14	27	27	25,9	10x2
AOVM NW 13 S ED	S	PN 400	16	M 22x1,5	M 24x1,5	37	14	27	30	26,9	12x2
AOVM NW 16 S ED	S	PN 400	20	M 27x2	M 30x2	43	16	32	36	31,9	16,3x2,4
AOVM NW 20 S ED	S	PN 400	25	M 33x2	M 36x2	48	18	41	46	39,9	20,3x2,4
AOVM NW 25 S ED	S	PN 400	30	M 42x2	M 42x2	51	20	50	50	49,9	25,3x2,4
AOVM NW 32 S ED	S	PN 315	38	M 48x2	M 48x2	60	22	55	60	54,9	33,3x2,4

Construction Series: LL = Very Light – L = Light – S = Heavy — Ø = Tube Outside Diameter — PN = Nominal Pressure — PB = Maximal Working Pressure

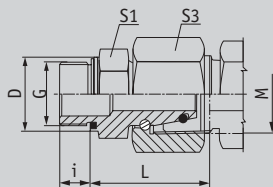
AOVR-ED

Adjustable Male Stud Standpipe Adapters with Captive Seal and O-Ring

O-Ring: Perbunan

Thread G: BSP parallel

Article category 5219, 5319



Designation	Series	Pressure	Ø	G	M	L	i	S1	S3	D	O-Ring
AOVR NW 04 L ED	L	PN 315	6	G 1/8"	M 12x1,5	24,5	8	14	14	13,9	4x1,5
AOVR NW 06 L ED	L	PN 315	8	G 1/4"	M 14x1,5	29,5	12	19	17	18,9	6x1,5
AOVR NW 08 L ED	L	PN 315	10	G 1/4"	M 16x1,5	27,5	12	19	19	18,9	7,5x1,5
AOVR NW 10 L 1/2 ED	L	PN 315	12	G 1/2"	M 22x1,5	32	14	27	27	26,9	12x2
AOVR NW 10 L ED	L	PN 315	12	G 3/8"	M 18x1,5	34	12	22	22	21,9	9x1,5
AOVR NW 13 L ED	L	PN 315	15	G 1/2"	M 22x1,5	32	14	27	27	26,9	12x2
AOVR NW 16 L ED	L	PN 315	18	G 1/2"	M 26x1,5	31,5	14	27	32	26,9	15x2
AOVR NW 20 L ED	L	PN 160	22	G 3/4"	M 30x2	32	16	32	36	31,9	20x2
AOVR NW 25 L ED	L	PN 160	28	G 1"	M 36x2	35	18	41	41	39,9	26x2
AOVR NW 32 L ED	L	PN 160	35	G 1 1/4"	M 45x2	42,5	20	50	50	49,9	32x2,5
AOVR NW 40 L ED	L	PN 160	42	G 1 1/2"	M 52x2	46,5	22	55	60	54,9	38x2,5
AOVR NW 03 S ED	S	PN 630	6	G 1/4"	M 14x1,5	27	12	19	17	18,9	4x1,5
AOVR NW 04 S ED	S	PN 630	8	G 1/4"	M 16x1,5	29,5	12	19	19	18,9	6x1,5
AOVR NW 06 S ED	S	PN 630	10	G 3/8"	M 18x1,5	32	12	22	22	21,9	7,5x1,5
AOVR NW 08 S ED	S	PN 630	12	G 3/8"	M 20x1,5	34	12	22	24	21,9	9x1,5
AOVR NW 10 S ED	S	PN 630	14	G 1/2"	M 22x1,5	36,5	14	27	27	26,9	10x2
AOVR NW 13 S ED	S	PN 400	16	G 1/2"	M 24x1,5	37	14	27	30	26,9	12x2
AOVR NW 16 S ED	S	PN 400	20	G 3/4"	M 30x2	42,5	16	32	36	31,9	16,3x2,4
AOVR NW 20 S ED	S	PN 400	25	G 1"	M 36x2	47,5	18	41	46	39,9	20,3x2,4
AOVR NW 25 S ED	S	PN 400	30	G 1 1/4"	M 42x2	51	20	50	50	49,9	25,3x2,4
AOVR NW 32 S ED	S	PN 315	38	G 1 1/2"	M 52x2	59,5	22	55	60	54,9	33,3x2,4

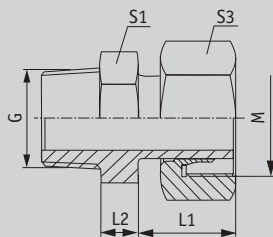
Construction Series: LL = Very Light – L = Light – S = Heavy — Ø = Tube Outside Diameter — PN = Nominal Pressure — PB = Maximal Working Pressure

AVN

Straight Stud Standpipe Adapters

Thread G: NPT

Article category 5230, 5330



Designation	Series	Pressure	Ø	G	M	L2	L2	S2	S3
AVN NW 04 L	L	PN 315	6	1/8" NPT	M 12x1,5	19	4	11	14
AVN NW 06 L	L	PN 315	8	1/4" NPT	M 14x1,5	20,5	4,5	14	17
AVN NW 08 L	L	PN 315	10	1/4" NPT	M 16x1,5	20	5,5	14	19
AVN NW 10 L	L	PN 315	12	3/8" NPT	M 18x1,5	20,5	8,5	19	22
AVN NW 13 L	L	PN 315	15	1/2" NPT	M 22x1,5	21	7	22	27
AVN NW 16 L	L	PN 315	18	1/2" NPT	M 26x1,5	22	5,5	22	32
AVN NW 20 L	L	PN 160	22	3/4" NPT	M 30x2	22,5	6,5	27	36
AVN NW 25 L	L	PN 160	28	1" NPT	M 36x2	24	7	36	41
AVN NW 32 L	L	PN 160	35	1"1/4 NPT	M 45x2	28,5	8,5	46	50
AVN NW 40 L	L	PN 160	42	1"1/2 NPT	M 52x,2	29,5	9,5	50	60
AVN NW 03 S	S	PN 630	6	1/4" NPT	M 14x1,5	19,5	5,5	14	17
AVN NW 04 S	S	PN 630	8	1/4" NPT	M 16x1,5	19,5	5,5	14	19
AVN NW 06 S	S	PN 630	10	3/8" NPT	M 18x1,5	21,5	7	19	22
AVN NW 08 S	S	PN 630	12	3/8" NPT	M 20x1,5	22	7	19	24
AVN NW 10 S	S	PN 630	14	1/4" NPT	M 22x1,5	23,5	10	22	27
AVN NW 13 S	S	PN 400	16	1/2" NPT	M 24x1,5	23,5	10	22	30
AVN NW 16 S	S	PN 400	20	3/4" NPT	M 30x2	28,5	9,5	27	36
AVN NW 20 S	S	PN 400	25	1" NPT	M 36x2	31	12	36	46
AVN NW 25 S	S	PN 400	30	1"1/4 NPT	M 42,x2	33,5	14,5	46	50
AVN NW 32 S	S	PN 315	38	1"1/2 NPT	M 52x2	38	14	50	60

Construction Series: LL = Very Light – L = Light – S = Heavy — Ø = Tube Outside Diameter — PN = Nominal Pressure — PB = Maximal Working Pressure

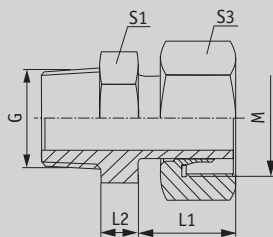
AVR

Straight Stud Standpipe Adapters

Typ of sealing: B acc. to DIN 3852

Thread G: BSP parallel

Article category 5230



Designation	Series	Pressure	Ø	G	M	L	i	SW	S1	D
AVR NW 04 L	L	PN 315	6	1/8"	12x1,5	24,5	8	14	14	14
AVR NW 06 L	L	PN 315	8	1/4"	14x1,5	29,5	12	17	19	18
AVR NW 08 L	L	PN 315	10	1/4"	16x1,5	37,5	12	19	19	18
AVR NW 10 L	L	PN 315	12	3/8"	18x1,5	34	12	22	22	22
AVR NW 10 L 1/2	L	PN 315	12	1/2"	22x1,5	32	14	22	27	22
AVR NW 10 L 1/4	L	PN 315	12	1/4"	18x1,5	37,5	12	22	19	22
AVR NW 13 L	L	PN 315	15	1/2"	22x1,5	32	14	27	27	26
AVR NW 13 L 3/8	L	PN 315	15	3/8"	18x1,5	34	12	27	22	26
AVR NW 16 L	L	PN 315	18	1/2"	26x1,5	31,5	14	32	27	26
AVR NW 20 L	L	PN 160	22	3/4"	30x2	32,5	16	36	32	32
AVR NW 25 L	L	PN 160	28	1"	36x2	35	18	41	41	39
AVR NW 25 L 3/4	L	PN 160	28	3/4"	30x2	32,5	16	41	32	39
AVR NW 32 L	L	PN 160	35	1 1/4"	45x2	42,5	20	50	50	49
AVR NW 40 L	L	PN 160	42	1 1/2"	52x2	46,5	22	60	55	55

Construction Series: LL = Very Light – L = Light – S = Heavy — Ø = Tube Outside Diameter — PN = Nominal Pressure — PB = Maximal Working Pressure

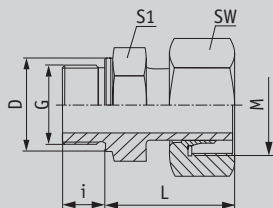
AVR

Straight Stud Standpipe Adapters

Typ of sealing: B acc. to DIN 3852

Thread G: BSP parallel

Article category 5330



Designation	Series	Pressure	Ø	G	M	L	i	SW	S1	D
AVR NW 03 S	S	PN 630	6	R 1/4"	M 14x1,5	37	12	17	19	18
AVR NW 04 S	S	PN 630	8	R 1/4"	M 16x1,5	29,5	12	19	19	18
AVR NW 06 S	S	PN 630	10	R 3/8"	M 18x1,5	32	12	22	22	22
AVR NW 08 S	S	PN 630	12	R 3/8"	M 20x1,5	34	12	24	22	22
AVR NW 08 S 1/2	S	PN 630	12	R 1/2"	M 20x1,5	34	12	24	22	22
AVR NW 10 S	S	PN 630	14	R 1/2"	M 22x1,5	36,5	14	27	27	26
AVR NW 13 S	S	PN 400	16	R 1/2"	M 24x1,5	37	14	30	27	26
AVR NW 13 S 3/8	S	PN 400	16	R 3/8"	M 24x1,5	37	14	30	27	26
AVR NW 13 S 3/4	S	PN 400	16	R 3/4"	M 24x1,5	37	14	30	27	26
AVR NW 16 S	S	PN 400	20	R 3/4"	M 30x2	43	16	36	32	32
AVR NW 20 S	S	PN 400	25	R 1"	M 36x2	48	18	46	41	39
AVR NW 25 S	S	PN 250	30	R 1 1/4"	M 42x2	51	20	50	50	49
AVR NW 32 S	S	PN 250	38	R 1 1/2"	M 52x2	60	22	60	55	55

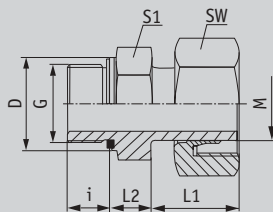
Construction Series: LL = Very Light – L = Light – S = Heavy — Ø = Tube Outside Diameter — PN = Nominal Pressure — PB = Maximal Working Pressure

AVR-ED

Straight Stud Standpipe Adapters with Captive Seal

Thread G: BSP parallel

Article category 5230, 5330



Designation	Series	Pressure	Ø	G	M	L1	L2	i	S1	S3	D
AVR NW 04 L ED	L	PN 250	6	G 1/8"	M 12x1,5	19	5,5	8	14	14	14
AVR NW 06 L ED	L	PN 250	8	G 1/4"	M 14x1,5	20,5	7	12	19	17	18,7
AVR NW 08 L ED	L	PN 250	10	G 1/4"	M 16x1,5	20	7,5	12	19	19	18,7
AVR NW 10 L ED	L	PN 250	12	G 3/8"	M 18x1,5	22	12	12	22	22	22
AVR NW 10 L 1/2 ED	L	PN 250	12	G 1/2"	M 18x1,5	22	10	14	27	22	26,7
AVR NW 13 L ED	L	PN 250	15	G 1/2"	M 22x1,5	21	11	14	27	27	26,7
AVR NW 16 L ED	L	PN 250	18	G 1/2"	M 26x1,5	22	9,5	14	27	32	26,7
AVR NW 20 L ED	L	PN 160	22	G 3/4"	M 30x2	22,5	10	16	32	36	32
AVR NW 25 L ED	L	PN 160	28	G 1"	M 36x2	24	11	18	41	41	39,7
AVR NW 32 L ED	L	PN 160	35	G 1 1/4"	M 45x2	28,5	14	20	50	50	49,7
AVR NW 40 L ED	L	PN 160	42	G 1 1/2"	M 52x2	29,5	17	22	55	60	55
AVR NW 03 S ED	S	PN 630	6	G 1/4"	M 14x1,5	19,5	7,5	12	19	17	18,7
AVR NW 04 S ED	S	PN 630	8	G 1/4"	M 16x1,5	19,5	10	12	19	19	18,7
AVR NW 06 S ED	S	PN 630	10	G 3/8"	M 18x1,5	21,5	8	12	22	22	22
AVR NW 08 S ED	S	PN 630	12	G 3/8"	M 20x1,5	22	12	12	22	24	22
AVR NW 10 S ED	S	PN 630	14	G 1/2"	M 22x1,5	23,5	13	14	27	27	26,7
AVR NW 13 S ED	S	PN 400	16	G 1/2"	M 24x1,5	23,5	13,5	14	27	30	26,7
AVR NW 16 S ED	S	PN 400	20	G 3/4"	M 30x2	28,5	14,5	16	32	36	32
AVR NW 20 S ED	S	PN 400	25	G 1"	M 36x2	31	17	18	41	46	39,7
AVR NW 25 S ED	S	PN 400	30	G 1 1/4"	M 42x2	33,5	17,5	20	50	50	49,7
AVR NW 32 S ED	S	PN 315	38	G 1 1/2"	M 52x2	38	22	22	55	60	55

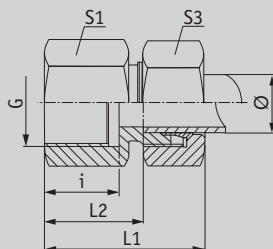
Construction Series: LL = Very Light – L = Light – S = Heavy — Ø = Tube Outside Diameter — PN = Nominal Pressure — PB = Maximal Working Pressure

GAM

Female Stud Couplings

Thread G: metric

Article category 5231, 5331



Designation	Series	Pressure	Ø	G	L1	L2	i	S1	S3
GAM NW 04 HL	L	PN 315	6	M 10x1	34,5	19,5	12,5	14	14
GAM NW 04 HL 22	L	PN 315	6	M 22x1,5	35	20	12	27	14
GAM NW 06 HL	L	PN 315	8	M 12x1,5	39	24	17	17	17
GAM NW 06 HL 22	L	PN 315	8	M 22x1,5	35	20	12	27	17
GAM NW 08 HL	L	PN 315	10	M 14x1,5	40	25	17	19	19
GAM NW 08 HL 22	L	PN 315	10	M 22x1,5	36	21	12	27	19
GAM NW 10 HL	L	PN 315	12	M 16x1,5	41	26	17	22	22
GAM NW 10 HL 18	L	PN 315	12	M 18x1,5	41	26	17	22	22
GAM NW 10 HL 22	L	PN 315	12	M 22x1,5	36	21	12	27	22
GAM NW 13 HL	L	PN 315	15	M 18x1,5	42	27	17	24	27
GAM NW 13 HL 22	L	PN 315	15	M 22x1,5	42	27	17	24	27
GAM NW 16 HL	L	PN 315	18	M 22x1,5	45	28,5	19	27	32
GAM NW 20 HL	L	PN 160	22	M 26x1,5	50	33,5	21	32	36
GAM NW 25 HL	L	PN 160	28	M 33x2	53	36,5	24	41	41
GAM NW 32 HL	L	PN 160	35	M 42x2	60	38,5	26	50	50
GAM NW 40 HL	L	PN 160	42	M 48x2	63	40	28	55	60
GAM NW 03 HS	S	PN 630	6	M 12x1,5	41	26	17	17	17
GAM NW 04 HS	S	PN 630	8	M 14x1,5	41	26	17	19	19
GAM NW 06 HS	S	PN 630	10	M 16x1,5	43	26,5	17	22	22
GAM NW 08 HS	S	PN 630	12	M 18x1,5	43	26,5	17	24	24
GAM NW 10 HS	S	PN 630	14	M 20x1,5	49	31	19	27	27
GAM NW 13 HS	S	PN 400	16	M 22x1,5	49	30,5	19	30	30
GAM NW 16 HS	S	PN 400	20	M 27x2	56	34,5	22	36	36
GAM NW 20 HS	S	PN 400	25	M 33x2	61	37	24	41	46
GAM NW 25 HS	S	PN 400	30	M 42x2	68	41,5	26	55	50
GAM NW 32 HS	S	PN 315	38	M 48x2	74	43	28	60	60

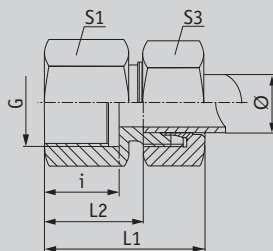
Construction Series: LL = Very Light – L = Light – S = Heavy — Ø = Tube Outside Diameter — PN = Nominal Pressure — PB = Maximal Working Pressure

GAR

Female Stud Couplings

Thread G: BSP

Article category 5231, 5331



Designation	Series	Pressure	Ø	G	L1	L2	i	S1	S3
GAR NW 04 HL	L	PN 315	6	G 1/8"	34	19	12	14	14
GAR NW 04 HL 1/4	L	PN 315	6	G 1/4"	34	19	12	14	14
GAR NW 06 HL	L	PN 315	8	G 1/4"	39	24	17	19	17
GAR NW 06 HL 3/8	L	PN 315	8	G 3/8"	36	21	17	22	17
GAR NW 06 HL 1/2	L	PN 315	8	G 1/2"	44	29	20	27	17
GAR NW 08 HL	L	PN 315	10	G 1/4"	40	25	17	19	19
GAR NW 08 HL 3/8	L	PN 315	10	G 3/8"	40	26	17	22	19
GAR NW 08 HL 1/2	L	PN 315	10	G 1/2"	45	30	20	27	19
GAR NW 10 HL	L	PN 315	12	G 3/8"	41	26	17	22	22
GAR NW 10 HL 1/4	L	PN 315	12	G 1/4"	41	25	17	19	22
GAR NW 10 HL 1/2	L	PN 315	12	G 1/2"	44	30	20	27	22
GAR NW 13 HL	L	PN 315	15	G 1/2"	45	30	20	27	27
GAR NW 16 HL	L	PN 315	18	G 1/2"	46	29,5	20	27	32
GAR NW 20 HL	L	PN 160	22	G 3/4"	51	34,5	22	32	36
GAR NW 25 HL	L	PN 160	28	G 1"	53,5	37	24,5	41	41
GAR NW 32 HL	L	PN 160	35	G 1"1/4	60,5	39	26,5	50	50
GAR NW 40 HL	L	PN 160	42	G 1"1/2	63,5	40,5	28,5	55	60
GAR NW 03 HS	S	PN 630	6	G 1/4"	41	26	17	19	17
GAR NW 04 HS	S	PN 630	8	G 1/4"	41	26	17	19	19
GAR NW 06 HS	S	PN 630	10	G 3/8"	42	26,5	17	24	22
GAR NW 08 HS	S	PN 630	12	G 3/8"	42	26,5	17	24	24
GAR NW 10 HS	S	PN 630	14	G 1/2"	50	32	20	27	27
GAR NW 13 HS	S	PN 400	16	G 1/2"	50	31,5	20	27	30
GAR NW 16 HS	S	PN 400	20	G 3/4"	56	34,5	22	36	36
GAR NW 20 HS	S	PN 400	25	G 1"	61,5	37,5	24,5	41	46
GAR NW 25 HS	S	PN 400	30	G 1"1/4	68,5	42	26,5	50	50
GAR NW 32 HS	S	PN 315	38	G 1"1/2	74,5	43,5	28,5	60	60

Construction Series: LL = Very Light – L = Light – S = Heavy — Ø = Tube Outside Diameter — PN = Nominal Pressure — PB = Maximal Working Pressure

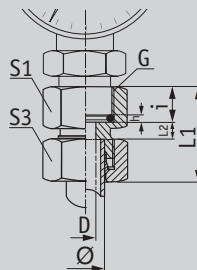
MVR

Pressure Gauge Couplings

With seal ring

Thread G: BSP

Article category 5232, 5332



Designation	Series	Pressure	Ø	G	L1	L2	i	h	D	S1	S3
MVR NW 04 HL	L	PN 315	6	G 1/4"	37	7,5	14,5	4,5	4	19	14
MVR NW 06 HL	L	PN 315	8	G 1/4"	37	7,5	14,5	4,5	6	19	17
MVR NW 08 HL	L	PN 315	10	G 1/4"	38	8,5	14,5	4,5	6	19	19
MVR NW 10 HL	L	PN 315	12	G 1/4"	38	8,5	14,6	4,5	6	19	22
MVR NW 03 HS	S	PN 630	6	G 1/2"	46	11	20	5	4	27	17
MVR NW 04 HS	S	PN 630	8	G 1/2"	46	11	20	5	5	27	19
MVR NW 06 HS	S	PN 630	10	G 1/2"	47	10,5	20	5	6	27	22
MVR NW 08 HS	S	PN 630	12	G 1/2"	47	10,5	20	5	6	27	24

Construction Series: LL = Very Light – L = Light – S = Heavy — Ø = Tube Outside Diameter — PN = Nominal Pressure — PB = Maximal Working Pressure

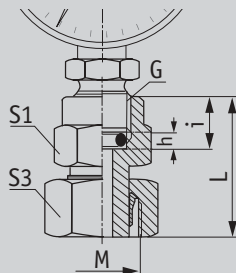
MVE

Adjustable Pressure Gauge Couplings

With Seal Ring, pre-installed

Thread G: BSP

Article category 5233, 5333



Designation	Series	Pressure	Ø	G	M	L	i	H	S1	S3
MVE NW 04 L	L	PN 400	6	G 1/4	M 12x1,5	38	14,5	4,5	19	14
MVE NW 06 L	L	PN 400	8	G 1/4	M 14x1,5	38	14,5	4,5	19	17
MVE NW 08 L	L	PN 400	10	G 1/4	M 16x1,5	39,5	14,5	4,5	19	19
MVE NW 10 L	L	PN 400	12	G 1/4	M 18x1,5	40,5	14,5	4,5	19	22
MVE NW 03 S	S	PN 630	6	G 1/2	M 14x1,5	45	20	5	27	17
MVE NW 04 S	S	PN 630	8	G 1/2	M 16x1,5	45	20	5	27	19
MVE NW 06 S	S	PN 630	10	G 1/2	M 18x1,5	47	20	5	27	22
MVE NW 08 S	S	PN 630	12	G 1/2	M 20x1,5	47,5	20	5	27	24

Construction Series: LL = Very Light – L = Light – S = Heavy — Ø = Tube Outside Diameter — PN = Nominal Pressure — PB = Maximal Working Pressure

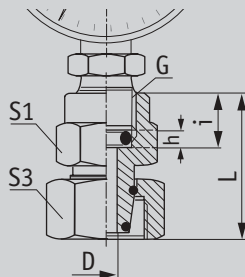
MVO

Adjustable Pressure Gauge Couplings, pre-installed

Sealing: O-ring and seal ring

Thread G: BSP

Article category 5233, 5333



Designation	Series	Pressure	Ø	G	L	i	h	D	S1	S3	O-Ring
MVO NW 04 L	L	PN 315	6	G 1/4"	36,5	14,5	4,5	2,5	19	14	4x1,5
MVO NW 06 L	L	PN 315	8	G 1/4"	36,5	14,5	4,5	4	19	17	6x1,5
MVO NW 08 L	L	PN 315	10	G 1/4"	36	14,5	4,5	6	19	19	7,5x1,5
MVO NW 10 L	L	PN 315	12	G 1/4"	37,5	14,5	4,5	6	19	22	9x1,5
MVO NW 03 S	S	PN 630	6	G 1/2"	43,5	20	5	2,5	27	17	4x1,5
MVO NW 03 S 1/4	S	PN 630	6	G 1/4"	43,5	20	5	2,5	27	17	4x1,5
MVO NW 04 S	S	PN 630	8	G 1/2"	43	20	5	4	27	19	6x1,5
MVO NW 04 S 1/4	S	PN 630	8	G 1/4"	43	20	5	4	27	19	6x1,5
MVO NW 06 S	S	PN 630	10	G 1/2"	45	20	5	5,5	27	22	7,5x1,5
MVO NW 06 S 1/4	S	PN 630	10	G 1/4"	45	20	5	5,5	27	22	7,5x1,5
MVO NW 08 S	S	PN 630	12	G 1/2"	44,5	20	5	6	27	24	9x1,5
MVO NW 08 S 1/4	S	PN 630	12	G 1/4"	44,5	20	5	6	27	24	9x1,5

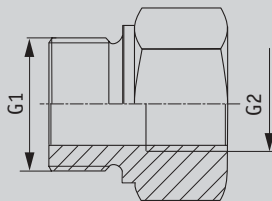
Construction Series: LL = Very Light – L = Light – S = Heavy — Ø = Tube Outside Diameter — PN = Nominal Pressure — PB = Maximal Working Pressure

RIK-M

Male-Female Reducing Adapters

Thread: metric

Article category 5234



Designation	Pressure	G1	G2
RIK M 14 12-1	PN 630	M 14x1,5	M 12x1
RIK M 16 12	PN 630	M 16x1,5	M 12x1,5
RIK M 16 12-1	PN 630	M 16x1,5	M 12x1
RIK M 22 12	PN 400	M 22x1,5	M 12x1,5
RIK M 22 14	PN 400	M 22x1,5	M 14x1,5

Construction Series: LL = Very Light – L = Light – S = Heavy — Ø = Tube Outside Diameter — PN = Nominal Pressure — PB = Maximal Working Pressure

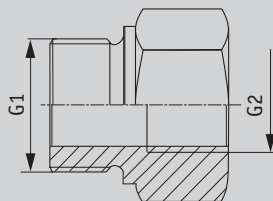
RIK

Male-Female Reducing Adapters

Type of sealing: B acc. to
DIN 3852

Thread: BSP parallel
(DIN ISO 228)

Article category 5234



Designation	Pressure	G1	G2	L	i1	i2	SW	D
RIK NW 10 03	PB 630	G 3/8"	G 1/8"	22,5	12	8	22	22
RIK NW 13 03	PB 630	G 1/2"	G 1/8"	24	14	8	27	26
RIK NW 13 06	PB 400	G 1/2"	G 1/4"	24	14	12	27	26
RIK NW 20 06	PB 400	G 3/4"	G 1/4"	26	16	12	32	32
RIK NW 20 10	PB 400	G 3/4"	G 3/8"	26	16	12	32	32
RIK NW 25 06	PB 400	G 1"	G 1/4"	29	18	12	41	39
RIK NW 25 10	PB 400	G 1"	G 3/8"	29	18	12	41	39
RIK NW 25 13	PB 400	G 1"	G 1/2"	29	18	14	41	39
RIK NW 32 13	PB 250	G 1 1/4"	G 1/2"	32	20	14	50	49
RIK NW 32 20	PB 250	G 1 1/4"	G 3/4"	32	20	16	60	49
RIK NW 40 13	PB 250	G 1 1/2"	G 1/2"	36	22	14	55	55
RIK NW 40 20	PB 250	G 1 1/2"	G 3/4"	36	22	16	55	55
RIK NW 40 25	PB 250	G 1 1/2"	G 1"	36	22	18	55	55

Construction Series: LL = Very Light – L = Light – S = Heavy — Ø = Tube Outside Diameter — PN = Nominal Pressure —
PB = Maximal Working Pressure

RIK-ED

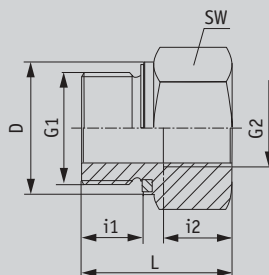
Male-Female Reducing

Adapters with Captive Seal

Type of sealing: seal in NBR

Thread: BSP parallel
(DIN ISO 228)

Article category: 5234



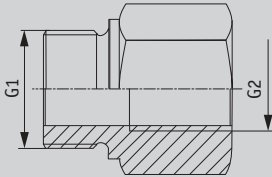
Designation	Pressure	G1	G2	L	i1	i2	SW	D
RIK NW 10 03 ED	PN 630	G 3/8"	G 1/8"	22,5	12	8	22	22
RIK NW 13 03 ED	PN 630	G 1/2"	G 1/8"	24	14	8	27	26,7
RIK NW 13 06 ED	PN 630	G 1/2"	G 1/4"	24	14	12	27	26,7
RIK NW 20 06 ED	PN 400	G 3/4"	G 1/4"	26	16	12	32	32
RIK NW 20 10 ED	PN 400	G 3/4"	G 3/8"	26	16	12	32	32
RIK NW 25 06 ED	PN 400	G 1"	G 1/4"	29	18	12	41	39,7
RIK NW 25 10 ED	PN 400	G 1"	G 3/8"	29	18	12	41	39,7
RIK NW 25 13 ED	PN 400	G 1"	G 1/2"	29	18	14	41	39,7
RIK NW 32 13 ED	PN 400	G 1 1/4"	G 1/2"	32	20	14	50	49,7
RIK NW 32 20 ED	PN 400	G 1 1/4"	G 3/4"	32	20	16	50	49,7
RIK NW 40 13 ED	PN 315	G 1 1/2"	G 1/2"	36	22	14	55	55
RIK NW 40 20 ED	PN 315	G 1 1/2"	G 3/4"	26	22	16	55	55
RIK NW 40 25 ED	PN 315	G 1 1/2"	G 1"	26	22	18	55	55

Construction Series: LL = Very Light – L = Light – S = Heavy — Ø = Tube Outside Diameter — PN = Nominal Pressure — PB = Maximal Working Pressure

RIL-M

Male-Female Reducing Adapters

Article category 5234



Designation	Pressure	G1	G2
RIL M 18 22	PN 250	M 18x1,5	M 22x1,5
RIL NW 13 M 12	PN 250	G 1/2"	M 12x1,5
RIL NW 20 M 26	PN 250	G 3/4"	M 26x1,5
RIL NW 25 M 22	PN 250	G 1"	M 22x1,5

Construction Series: LL = Very Light – L = Light – S = Heavy — Ø = Tube Outside Diameter — PN = Nominal Pressure — PB = Maximal Working Pressure

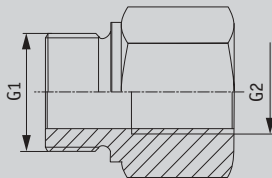
RIL

Male-Female Reducing Adapters

Type of sealing: B acc. to
DIN 3852

Thread: BSP parallel
(DIN ISO 228)

Article category 5235



Designation	Pressure	G1	G2	L	i1	i2	SW	D	d1
RIL NW 03 06	PN 630	G 1/8"	G 1/4"	31	8	17	19	14	4
RIL NW 03 10	PN 630	G 1/8"	G 3/8"	32	8	17	24	14	4
RIL NW 06 03	PN 630	G 1/4"	G 1/8"	28	12	12	19	18	5
RIL NW 06 06	PN 630	G 1/4"	G 1/4"	30	12	17	19	18	5
RIL NW 06 10	PN 630	G 1/4"	G 3/8"	36	12	17	24	18	5
RIL NW 06 13	PN 630	G 1/4"	G 1/2"	40	12	20	27	18	5
RIL NW 06 20	PN 400	G 1/4"	G 3/4"	43	12	22	36	18	5
RIL NW 10 06	PN 630	G 3/8"	G 1/4"	36	12	17	22	22	8
RIL NW 10 10	PN 630	G 3/8"	G 3/8"	38	12	18	22	22	8
RIL NW 10 13	PN 630	G 3/8"	G 1/2"	41	12	20	27	22	8
RIL NW 10 20	PN 400	G 3/8"	G 3/4"	44	12	22	36	22	8
RIL NW 13 10	PN 400	G 1/2"	G 3/8"	36	14	17	27	26	12
RIL NW 13 13	PN 400	G 1/2"	G 1/2"	42	14	19	27	26	12
RIL NW 13 20	PN 400	G 1/2"	G 3/4"	46	14	22	36	26	12
RIL NW 13 25	PN 400	G 1/2"	G 1"	49	14	24,5	41	26	12
RIL NW 13 32	PN 250	G 1/2"	G 1 1/4"	53	14	26,5	55	26	10
RIL NW 20 13	PN 400	G 3/4"	G 1/2"	41	16	20	32	32	16
RIL NW 20 20	PN 400	G 3/4"	G 3/4"	47	16	22	36	32	16
RIL NW 20 25	PN 400	G 3/4"	G 1"	51	16	24,5	41	32	16
RIL NW 20 32	PN 250	G 3/4"	G 1 1/4"	55	16	26,5	55	32	16
RIL NW 20 40	PN 250	G 3/4"	G 1 1/2"	57	16	28,5	60	32	16
RIL NW 25 20	PN 400	G 1"	G 3/4"	47	18	22	41	39	20
RIL NW 25 32	PN 250	G 1"	G 1 1/4"	57	18	26,5	55	39	20
RIL NW 25 40	PN 250	G 1"	G 1 1/2"	59	18	28,5	60	39	20
RIL NW 32 25	PN 250	G 1 1/4"	G 1"	52	20	24,5	60	49	25
RIL NW 32 40	PN 250	G 1 1/4"	G 1 1/2"	60	20	28,5	60	49	25
RIL NW 40 32	PN 250	G 1 1/2"	G 1 1/4"	58	22	26,5	55	55	32
RIL NW 50 40	PN 250	G 2"	G 1 1/2"	62	24	28,5	70	28	40

Construction Series: LL = Very Light – L = Light – S = Heavy — Ø = Tube Outside Diameter — PN = Nominal Pressure —
PB = Maximal Working Pressure

RIL-ED

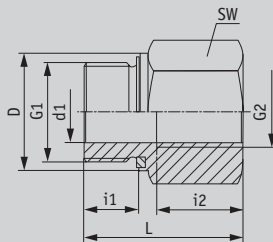
Male-Female Reducing Adapters with Captive Seal

Type of sealing: seal in NBR

Thread: BSP parallel

(DIN ISO 228)

Article category 5235



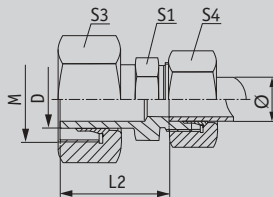
Designation	Pressure	G1	G2	L	i1	i2	SW	D	d1
RIL NW 03 06 ED	PN 630	G 1/8"	G 1/4"	31	8	17	19	14	4
RIL NW 03 10 ED	PN 630	G 1/8"	G 3/8"	32	8	17	24	14	4
RIL NW 06 03 ED	PN 630	G 1/4"	G 1/8"	28	12	12	19	18,7	5
RIL NW 06 10 ED	PN 630	G 1/4"	G 3/8"	36	12	17	24	18,7	5
RIL NW 06 13 ED	PN 630	G 1/4"	G 1/2"	40	12	20	27	18,7	5
RIL NW 06 20 ED	PN 630	G 1/4"	G 3/4"	43	12	22	36	18,7	5
RIL NW 10 06 ED	PN 630	G 3/8"	G 1/4"	36	12	17	22	22	8
RIL NW 10 13 ED	PN 630	G 3/8"	G 1/2"	41	12	20	27	22	8
RIL NW 10 20 ED	PN 400	G 3/8"	G 3/4"	44	12	22	36	22	8
RIL NW 13 10 ED	PN 630	G 1/2"	G 3/8"	36	14	17	27	26,7	12
RIL NW 13 20 ED	PN 400	G 1/2"	G 3/4"	46	14	22	36	26,7	12
RIL NW 13 25 ED	PN 400	G 1/2"	G 1"	49	14	24,5	41	26,7	12
RIL NW 13 32 ED	PN 400	G 1/2"	G 1 1/4"	53	14	26,5	55	26,7	10
RIL NW 20 13 ED	PN 400	G 3/4"	G 1/2"	41	16	20	32	32	16
RIL NW 20 25 ED	PN 400	G 3/4"	G 1"	51	16	24,5	41	32	16
RIL NW 20 32 ED	PN 400	G 3/4"	G 1 1/4"	55	16	26,5	55	32	16
RIL NW 20 40 ED	PN 315	G 3/4"	G 1 1/2"	57	16	28,5	60	32	16
RIL NW 25 20 ED	PN 400	G 1"	G 3/4"	47	18	22	41	39,7	20
RIL NW 25 32 ED	PN 400	G 1"	G 1 1/4"	57	18	26,5	55	39,7	20
RIL NW 25 40 ED	PN 315	G 1"	G 1 1/2"	59	18	28	60	39,7	20
RIL NW 32 25 ED	PN 400	G 1 1/4"	G 1"	52	20	24,5	50	49,7	25
RIL NW 32 40 ED	PN 315	G 1 1/4"	G 1 1/2"	60	20	28,5	60	49,7	25
RIL NW 40 32 ED	PN 315	G 1 1/2"	G 1 1/4"	58	22	26,5	55	55	32
RIL NW 50 40 ED	PN 250	G 2"	G 1 1/2"	62	24	35	70	68	40

Construction Series: LL = Very Light – L = Light – S = Heavy — Ø = Tube Outside Diameter — PN = Nominal Pressure — PB = Maximal Working Pressure

AH

Standpipe Reducers, pre-installed

Article category 5121, 5236



Designation	Series	Pressure	D	Ø	M	L2	S1	S3	S4
AH NW 06 L 04	L	PN 315	8	6	M 14x1,5	25,5	12	17	14
AH NW 08 L 04	L	PN 315	10	6	M 16x1,5	27	12	19	14
AH NW 08 L 06	L	PN 315	10	8	M 16x1,5	27,5	14	19	17
AH NW 10 L 04	L	PN 315	12	6	M 18x1,5	28	14	22	14
AH NW 10 L 06	L	PN 315	12	8	M 18x1,5	29	14	22	17
AH NW 10 L 08	L	PN 315	12	10	M 18x1,5	30	17	22	19
AH NW 10 L 10	L	PN 315	12	12	M 18x1,5	30	17	22	22
AH NW 10 L 13	L	PN 315	12	15	M 18x,15	30	17	22	27
AH NW 13 L 04	L	PN 315	15	6	M 22x1,5	29	17	27	14
AH NW 13 L 06	L	PN 315	15	8	M 22x1,5	29	17	27	17
AH NW 13 L 08	L	PN 315	15	10	M 22x1,5	30	17	27	19
AH NW 13 L 10	L	PN 315	12	15	M 22x1,5	31	19	27	22
AH NW 16 L 04	L	PN 315	18	6	M 26x1,5	30	19	32	14
AH NW 16 L 06	L	PN 315	18	8	M 26x1,5	31	19	32	17
AH NW 16 L 08	L	PN 315	18	10	M 26x1,5	32	19	32	19
AH NW 16 L 10	L	PN 315	18	12	M 26x1,5	33	19	32	22
AH NW 16 L 13	L	PN 315	18	15	M 26x1,5	34	24	32	27
AH NW 20 L 04	L	PN 160	22	6	M 30x2	32	24	36	14
AH NW 20 L 06	L	PN 160	22	8	M 30x2	33	24	36	17
AH NW 20 L 08	L	PN 160	22	10	M 30x2	34	24	36	19
AH NW 20 L 10	L	PN 160	22	12	M 30x2	35	24	36	22
AH NW 20 L 13	L	PN 160	22	15	M 30x2	36	24	36	27
AH NW 20 L 16	L	PN 160	22	18	M 30x2	36,5	27	36	32

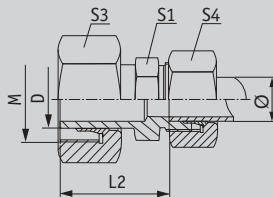
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Construction Series: LL = Very Light – L = Light – S = Heavy — Ø = Tube Outside Diameter — PN = Nominal Pressure — PB = Maximal Working Pressure

AH

Standpipe Reducers, pre-installed

Article category 5236



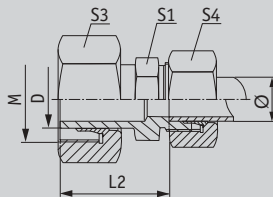
Designation	Series	Pressure	D	Ø	M	L2	S1	S3	S4
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AH NW 25 L 04	L	PN 160	28	6	M 30x2	34	30	41	14
AH NW 25 L 06	L	PN 160	28	8	M 36x2	34	30	41	17
AH NW 25 L 08	L	PN 160	28	10	M 36x2	35	30	41	19
AH NW 25 L 10	L	PN 160	28	12	M 36x2	36	30	41	22
AH NW 25 L 13	L	PN 160	28	15	M 36x2	37	30	41	27
AH NW 25 L 16	L	PN 160	28	18	M 36x2	37,5	30	41	32
AH NW 25 L 20	L	PN 160	28	22	M 36x2	39,5	32	41	36
AH NW 32 L 04	L	PN 160	35	6	M 45x2	40	36	50	14
AH NW 32 L 06	L	PN 160	35	8	M 45x2	40	36	50	17
AH NW 32 L 08	L	PN 160	35	10	M 45x2	41	36	50	19
AH NW 32 L 10	L	PN 160	35	12	M 45x2	42	36	50	22
AH NW 32 L 13	L	PN 160	35	15	M 45x2	43	36	50	27
AH NW 32 L 16	L	PN 160	35	18	M 45x2	43,5	36	50	32
AH NW 32 L 20	L	PN 160	35	22	M 45x2	45,5	36	50	36
AH NW 32 L 25	L	PN 160	35	28	M 45x2	46,5	41	50	41
AH NW 40 L 04	L	PN 160	42	6	M 52x2	40	46	60	14
AH NW 40 L 06	L	PN 160	42	8	M 52x2	41	46	60	17
AH NW 40 L 08	L	PN 160	42	10	M 52x2	42	46	60	19
AH NW 40 L 10	L	PN 160	42	12	M 52x2	43	46	60	22
AH NW 40 L 13	L	PN 160	42	15	M 52x2	45	46	60	27
AH NW 40 L 16	L	PN 160	42	18	M 52x2	44,5	46	60	32
AH NW 40 L 20	L	PN 160	42	22	M 52x2	46,5	46	60	36
AH NW 40 L 25	L	PN 160	42	28	M 52x2	47,5	46	60	41
AH NW 40 L 32	L	PN 160	42	35	M 52x2	47,5	46	60	50

Construction Series: LL = Very Light – L = Light – S = Heavy — Ø = Tube Outside Diameter — PN = Nominal Pressure — PB = Maximal Working Pressure

AH

Standpipe Reducers, pre-installed

Article category 5236



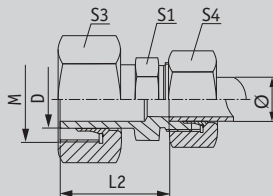
Designation	Series	Pressure	D	Ø	M	L2	S1	S3	S4
AH NW 13 L 10 S	L	PN 315	15	14	M 22x1,5	31	19	27	27
AH NW 16 L 13 S	L	PN 315	18	16	M 26x1,5	34	24	32	30
AH NW 20 L 13 S	L	PN 315	22	15	M 30x2	35	24	36	30
AH NW 20 L 16 S	L	PN 315	22	20	M 30x2	35	24	36	36
AH NW 25 L 13 S	L	PN 250	28	15	M 36x2	37,5	30	41	30
AH NW 25 L 20 S	L	PN 250	28	25	M 36x2	39,5	32	41	36

Construction Series: LL = Very Light – L = Light – S = Heavy — Ø = Tube Outside Diameter — PN = Nominal Pressure — PB = Maximal Working Pressure

AH

Standpipe Reducers, pre-installed

Article category 5336



Designation	Series	Pressure	D	Ø	M	L2	S1	S3	S4
AH NW 04 S 03	S	PN 630	8	6	M 16x1,5	30	14	19	17
AH NW 06 S 03	S	PN 630	10	6	M 18x1,5	32	14	22	17
AH NW 06 S 04	S	PN 630	10	8	M 18x1,5	34	17	22	19
AH NW 08 S 03	S	PN 630	12	6	M 20x1,5	32	14	24	17
AH NW 08 S 04	S	PN 630	12	8	M 20x1,5	34	17	24	19
AH NW 08 S 06	S	PN 630	12	10	M 20x1,5	33,5	19	24	22
AH NW 10 S 03	S	PN 630	14	6	M 22x1,5	35	17	27	17
AH NW 10 S 04	S	PN 630	14	8	M 22x1,5	37	17	27	19
AH NW 10 S 06	S	PN 630	14	10	M 22x1,5	36,5	19	27	22
AH NW 10 S 08	S	PN 630	14	12	M 22x1,5	38,5	22	27	24
AH NW 13 S 03	S	PN 400	16	6	M 24x1,5	35	17	30	17
AH NW 13 S 04	S	PN 400	16	8	M 24x1,5	37	17	30	19
AH NW 13 S 06	S	PN 400	16	10	M 24x1,5	36,5	19	30	22
AH NW 13 S 08	S	PN 400	16	12	M 24x1,5	38,5	22	30	24
AH NW 13 S 10	S	PN 400	16	14	M 24x1,5	40	24	30	27
AH NW 16 S 03	S	PN 400	20	6	M 30x2	42	22	36	17
AH NW 16 S 04	S	PN 400	20	8	M 30x2	42	22	36	19
AH NW 16 S 06	S	PN 400	20	10	M 30x2	41,5	22	36	22
AH NW 16 S 08	S	PN 400	20	12	M 30x2	43,5	22	36	24
AH NW 16 S 10	S	PN 400	20	14	M 30x2	45	24	36	27
AH NW 16 S 13	S	PN 400	20	16	M 30x2	44,5	27	36	30
AH NW 20 S 03	S	PN 400	25	6	M 36x2	44	27	46	17
AH NW 20 S 04	S	PN 400	25	8	M 36x2	44	27	46	19
AH NW 20 S 06	S	PN 400	25	10	M 36x2	43,5	27	46	22
AH NW 20 S 08	S	PN 400	25	12	M 36x2	45,5	27	46	24
AH NW 20 S 10	S	PN 400	25	14	M 36x2	47	27	46	27
AH NW 20 S 13	S	PN 400	25	16	M 36x2	46,5	27	46	30

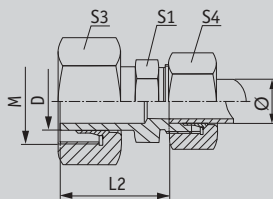
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Construction Series: LL = Very Light – L = Light – S = Heavy — Ø = Tube Outside Diameter — PN = Nominal Pressure —
PB = Maximal Working Pressure

AH

Standpipe Reducers, pre-installed

Article category 5336



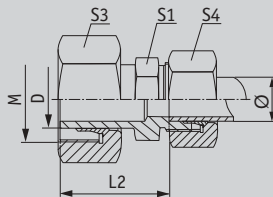
Designation	Series	Pressure	D	Ø	M	L2	S1	S3	S4
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AH NW 20 S 16	S	PN 400	25	20	M 36x2	48,5	32	46	36
AH NW 25 S 03	S	PN 400	30	6	M 42x2	52	32	50	17
AH NW 25 S 04	S	PN 400	30	8	M 42x2	52	32	50	19
AH NW 25 S 06	S	PN 400	30	10	M 42x2	51,5	32	50	22
AH NW 25 S 08	S	PN 400	30	12	M 42x2	51,5	32	50	24
AH NW 25 S 10	S	PN 400	30	14	M 42x2	53	32	50	27
AH NW 25 S 13	S	PN 400	30	16	M 42x2	52,5	32	50	30
AH NW 25 S 16	S	PN 400	30	20	M 42x2	54,5	32	50	36
AH NW 25 S 20	S	PN 400	30	25	M 42x2	57	41	50	46
AH NW 32 S 03	S	PN 315	38	6	M 52x2	55	41	60	17
AH NW 32 S 04	S	PN 315	38	8	M 52x2	55	41	60	19
AH NW 32 S 06	S	PN 315	38	10	M 52x2	54,5	41	60	22
AH NW 32 S 08	S	PN 315	38	12	M 52x2	54,5	41	60	24
AH NW 32 S 10	S	PN 315	38	14	M 52x2	56	41	60	27
AH NW 32 S 13	S	PN 315	38	16	M 52x2	55,5	41	60	30
AH NW 32 S 16	S	PN 315	38	20	M 52x2	57,5	41	60	36
AH NW 32 S 20	S	PN 315	38	25	M 52x2	60	41	60	46
AH NW 32 S 25	S	PN 315	38	30	M 52x2	60,5	46	60	50

Construction Series: LL = Very Light – L = Light – S = Heavy — Ø = Tube Outside Diameter — PN = Nominal Pressure — PB = Maximal Working Pressure

AH

Standpipe Reducers, pre-installed

Article category 5336



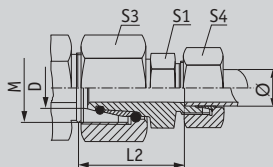
Designation	Series	Pressure	D	Ø	M	L2	S1	S3	S4
AH NW 13 S 13 L	S	PN 400	16	15	M 24x1,5	39,5	22	30	27
AH NW 13 S 16 L	S	PN 315	16	18	M 24x1,5	39,5	22	30	32
AH NW 16 S 13 L	S	PN 400	20	15	M 30x2	43,5	24	36	27
AH NW 16 S 16 L	S	PN 315	20	18	M 30x2	43,5	24	36	27
AH NW 20 S 16 L	S	PN 400	25	20	M 36x2	48	27	46	36
AH NW 20 S 20 L	S	PN 250	25	22	M 36x2	48	27	46	36
AH NW 25 S 25 L	S	PN 250	30	28	M 42x2	56	41	50	41

Construction Series: LL = Very Light – L = Light – S = Heavy — Ø = Tube Outside Diameter — PN = Nominal Pressure — PB = Maximal Working Pressure

AOH

Standpipe Reducers with O-Ring

Article category 5236



Designation	Series	Pressure	D	Ø	M	L2	S1	S3	S4	O-Ring
AOH NW 06 L 04	L	PN 315	8	6	M 14x1,5	24,5	12	17	14	6x1,5
AOH NW 08 L 04	L	PN 315	10	6	M 16x1,5	25	14	19	14	7,5x1,5
AOH NW 08 L 06	L	PN 315	10	8	M 16x1,5	25	14	19	17	7,5x1,5
AOH NW 10 L 04	L	PN 315	12	6	M 18x1,5	26,5	17	22	14	9x1,5
AOH NW 10 L 06	L	PN 315	12	8	M 18x1,5	26,5	17	22	17	9x1,5
AOH NW 10 L 08	L	PN 315	12	10	M 18x1,5	27,5	17	22	19	9x1,5
AOH NW 13 L 04	L	PN 315	15	6	M 22x1,5	28,5	19	27	14	12x2
AOH NW 13 L 06	L	PN 315	15	8	M 22x1,5	28,5	19	27	17	12x2
AOH NW 13 L 08	L	PN 315	15	10	M 22x1,5	29,5	19	27	19	12x2
AOH NW 13 L 10	L	PN 315	15	12	M 22x1,5	29,5	19	27	22	12x2
AOH NW 16 L 04	L	PN 315	18	6	M 26x1,5	29,5	24	32	14	15x2
AOH NW 16 L 06	L	PN 315	18	8	M 26x1,5	29,5	24	32	17	15x2
AOH NW 16 L 08	L	PN 315	18	10	M 26x1,5	30,5	24	32	19	15x2
AOH NW 16 L 10	L	PN 315	18	12	M 26x1,5	30,5	24	32	22	15x2
AOH NW 16 L 13	L	PN 315	18	15	M 26x1,5	31,5	24	32	27	15x2
AOH NW 20 L 04	L	PN 160	22	6	M 30x2	32	27	36	14	20x2
AOH NW 20 L 06	L	PN 160	22	8	M 30x2	32	27	36	17	20x2
AOH NW 20 L 08	L	PN 160	22	10	M 30x2	33	27	36	19	20x2
AOH NW 20 L 10	L	PN 160	22	12	M 30x2	33	27	36	22	20x2
AOH NW 20 L 13	L	PN 160	22	15	M 30x2	34	27	36	27	20x2
AOH NW 20 L 16	L	PN 160	22	18	M 30x2	33,5	27	36	32	20x2
AOH NW 25 L 04	L	PN 160	28	6	M 36x2	34	32	41	14	26x2
AOH NW 25 L 06	L	PN 160	28	8	M 36x2	34	32	41	17	26x2
AOH NW 25 L 08	L	PN 160	28	10	M 36x2	35	32	41	19	26x2
AOH NW 25 L 10	L	PN 160	28	12	M 36x2	35	32	41	22	26x2
AOH NW 25 L 13	L	PN 160	28	15	M 36x2	36	32	41	27	26x2
AOH NW 25 L 16	L	PN 160	28	18	M 36x2	35,5	32	41	32	26x2

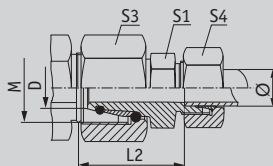
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Construction Series: LL = Very Light – L = Light – S = Heavy — Ø = Tube Outside Diameter — PN = Nominal Pressure —
PB = Maximal Working Pressure

AOH

Standpipe Reducers with O-Ring

Article category 5236



Designation	Series	Pressure	D	Ø	M	L2	S1	S3	S4	O-Ring
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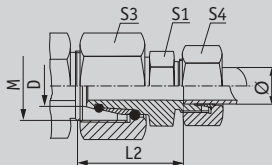
AOH NW 25 L 20	L	PN 160	28	22	M 36x2	37,5	32	41	36	26x2
AOH NW 32 L 04	L	PN 160	35	6	M 45x2	38,5	41	50	14	32x2,5
AOH NW 32 L 06	L	PN 160	35	8	M 45x2	38,5	41	50	17	32x2,5
AOH NW 32 L 08	L	PN 160	35	10	M 45x2	39,5	41	50	19	32x2,5
AOH NW 32 L 10	L	PN 160	35	12	M 45x2	39,5	41	50	22	32x2,5
AOH NW 32 L 13	L	PN 160	35	15	M 45x2	39,5	41	50	27	32x2,5
AOH NW 32 L 16	L	PN 160	35	18	M 45x2	39,5	41	50	32	32x2,5
AOH NW 32 L 20	L	PN 160	35	22	M 45x2	41,5	41	50	36	32x2,5
AOH NW 32 L 25	L	PN 160	35	28	M 45x2	41,5	41	50	41	32x2,5
AOH NW 40 L 04	L	PN 160	42	6	M 52x2	41	46	60	14	38x2,5
AOH NW 40 L 06	L	PN 160	42	8	M 52x2	41	46	60	17	38x2,5
AOH NW 40 L 08	L	PN 160	42	10	M 52x2	42	46	60	19	38x2,5
AOH NW 40 L 10	L	PN 160	42	12	M 52x2	42	46	60	22	38x2,5
AOH NW 40 L 13	L	PN 160	42	15	M 52x2	43	46	60	27	38x2,5
AOH NW 40 L 16	L	PN 160	42	18	M 52x2	42	50	60	32	38x2,5
AOH NW 40 L 20	L	PN 160	42	22	M 52x2	44	50	60	36	38x2,5
AOH NW 40 L 25	L	PN 160	42	28	M 52x2	44	50	60	41	38x2,5
AOH NW 40 L 32	L	PN 160	42	35	M 52x2	43	50	60	50	38x2,5

Construction Series: LL = Very Light – L = Light – S = Heavy — Ø = Tube Outside Diameter — PN = Nominal Pressure — PB = Maximal Working Pressure

AOH

Standpipe Reducers with O-Ring

Article category 5336



Designation	Series	Pressure	D	Ø	M	L2	S1	S3	S4	O-Ring
AOH NW 04 S 03	S	PN 630	8	6	M 16x1,5	28	14	19	17	6x1,5
AOH NW 06 S 03	S	PN 630	10	6	M 18x1,5	29,5	17	22	17	7,5x1,5
AOH NW 06 S 04	S	PN 630	10	8	M 18x1,5	29,5	17	22	19	7,5x1,5
AOH NW 08 S 03	S	PN 630	12	6	M 20x1,5	30	17	24	17	9x1,5
AOH NW 08 S 04	S	PN 630	12	8	M 20x1,5	30	17	24	19	9x1,5
AOH NW 08 S 06	S	PN 630	12	10	M 20x1,5	30,5	19	24	22	9x1,5
AOH NW 10 S 03	S	PN 630	14	6	M 22x1,5	33	19	27	17	10x2
AOH NW 10 S 04	S	PN 630	14	8	M 22x1,5	33	19	27	19	10x2
AOH NW 10 S 06	S	PN 630	14	10	M 22x1,5	32,5	19	27	22	10x2
AOH NW 10 S 08	S	PN 630	14	12	M 22x1,5	32,5	22	27	24	10x2
AOH NW 13 S 03	S	PN 400	16	6	M 24x1,5	34	22	30	17	12x2
AOH NW 13 S 04	S	PN 400	16	8	M 24x1,5	34	22	30	19	12x2
AOH NW 13 S 06	S	PN 400	16	10	M 24x1,5	33,5	22	30	22	12x2
AOH NW 13 S 08	S	PN 400	16	12	M 24x1,5	33,5	22	30	24	12x2
AOH NW 13 S 10	S	PN 400	16	14	M 24x1,5	35,5	24	30	27	12x2
AOH NW 16 S 03	S	PN 400	20	6	M 30x2	39	27	36	17	16,3x2,4
AOH NW 16 S 04	S	PN 400	20	8	M 30x2	39	27	36	19	16,3x2,4
AOH NW 16 S 06	S	PN 400	20	10	M 30x2	38,5	27	36	22	16,3x2,4
AOH NW 16 S 08	S	PN 400	20	12	M 30x2	38,5	27	36	24	16,3x2,4
AOH NW 16 S 10	S	PN 400	20	14	M 30x2	40	27	36	27	16,3x2,4
AOH NW 16 S 13	S	PN 400	20	16	M 30x2	39,5	27	36	30	16,3x2,4
AOH NW 20 S 03	S	PN 400	25	6	M 36x2	41,5	32	46	17	20,3x2,4
AOH NW 20 S 04	S	PN 400	25	8	M 36x2	41,5	32	46	19	20,3x2,4
AOH NW 20 S 06	S	PN 400	25	10	M 36x2	41	32	46	22	20,3x2,4
AOH NW 20 S 08	S	PN 400	25	12	M 36x2	41	32	46	24	20,3x2,4
AOH NW 20 S 10	S	PN 400	25	14	M 36x2	42,5	32	46	27	20,3x2,4
AOH NW 20 S 13	S	PN 400	25	16	M 36x2	42	32	46	30	20,3x2,4

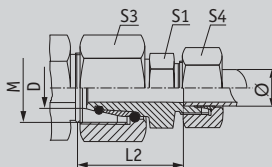
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Construction Series: LL = Very Light – L = Light – S = Heavy — Ø = Tube Outside Diameter — PN = Nominal Pressure — PB = Maximal Working Pressure

AOH

Standpipe Reducers with O-Ring

Article category 5336



Designation	Series	Pressure	D	Ø	M	L2	S1	S3	S4	O-Ring
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AOH NW 20 S 16	S	PN 400	25	20	M 36x2	42	32	46	36	20,3x2,4
AOH NW 25 S 03	S	PN 400	30	6	M 42x2	44,5	36	50	17	25,3x2,4
AOH NW 25 S 04	S	PN 400	30	8	M 42x2	46	41	50	19	25,3x2,4
AOH NW 25 S 06	S	PN 400	30	10	M 42x2	45,5	41	50	22	25,3x2,4
AOH NW 25 S 08	S	PN 400	30	12	M 42x2	45,5	41	50	24	25,3x2,4
AOH NW 25 S 10	S	PN 400	30	14	M 42x2	47	41	50	27	25,3x2,4
AOH NW 25 S 13	S	PN 400	30	16	M 42x2	46,5	41	50	30	25,3x2,4
AOH NW 25 S 16	S	PN 400	30	20	M 42x2	46,5	41	50	36	25,3x2,4
AOH NW 25 S 20	S	PN 400	30	25	M 42x2	47	41	50	46	25,3x2,4
AOH NW 32 S 03	S	PN 315	38	6	M 52x2	48,5	46	60	17	33,3x2,4
AOH NW 32 S 04	S	PN 315	38	8	M 52x2	48,5	46	60	19	33,3x2,4
AOH NW 32 S 06	S	PN 315	38	10	M 52x2	48	46	60	22	33,3x2,4
AOH NW 32 S 08	S	PN 315	38	12	M 52x2	50	50	60	24	33,3x2,4
AOH NW 32 S 10	S	PN 315	38	14	M 52x2	51,5	50	60	27	33,3x2,4
AOH NW 32 S 13	S	PN 315	38	16	M 52x2	51	50	60	30	33,3x2,4
AOH NW 32 S 16	S	PN 315	38	20	M 52x2	51	50	60	36	33,3x2,4
AOH NW 32 S 20	S	PN 315	38	25	M 52x2	51,5	50	60	46	33,3x2,4
AOH NW 32 S 25	S	PN 315	38	30	M 52x2	52	50	60	50	33,3x2,4

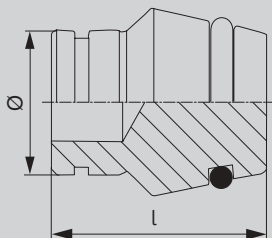
Construction Series: LL = Very Light – L = Light – S = Heavy — Ø = Tube Outside Diameter — PN = Nominal Pressure — PB = Maximal Working Pressure

BZL / BZS

Blanking Plugs with O-Ring

with 24° inner cone
and without nut

Article category 5237



Designation	Series	Pressure	Ø	l	O-Ring
BZL NW 04	L	PN 315	6	18,5	4x1,5
BZL NW 06	L	PN 315	8	18	6x1,5
BZL NW 08	L	PN 315	10	19,5	7,5x1,5
BZL NW 10	L	PN 315	12	19	9x1,5
BZL NW 13	L	PN 315	15	19	12x2
BZL NW 16	L	PN 315	18	22	15x2
BZL NW 20	L	PN 160	22	22	20x2
BZL NW 25	L	PN 160	28	23,5	26x2
BZL NW 32	L	PN 160	35	27	32x2,5
BZL NW 40	L	PN 160	42	27,5	38x2,5
BZS NW 10	S	PN 630	14	21	10x2
BZS NW 13	S	PN 400	16	22	12x2
BZS NW 16	S	PN 400	20	26,5	16,3x2,4
BZS NW 20	S	PN 400	25	27,5	20,3x2,4
BZS NW 25	S	PN 400	30	28,5	25,3x2,4
BZS NW 32	S	PN 315	38	32,5	33,3x2,5

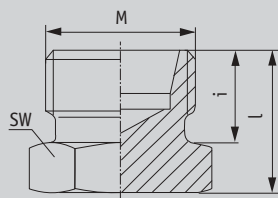
Construction Series: LL = Very Light – L = Light – S = Heavy — Ø = Tube Outside Diameter — PN = Nominal Pressure — PB = Maximal Working Pressure

VHLL/VHL/VHS

Standpipe End Plugs

with 24° Inner Cone

Article category 5137, 5237, 5337



Designation	Series	Pressure	Ø	M	L	i	S
VHLL 04	LL	PN 100	4	M 8x1	12	8	9
VHLL 05	LL	PN 100	5	M 10x1	12	8	11
VHLL 06	LL	PN 100	6	M 10x1	12	8	11
VHLL 08	LL	PN 100	8	M 12x1	14	9	12
VHL NW 04	LL	PN 100	6	M 12x1,5	14	10	12
VHL NW 06	L	PN 400	8	M 14x1,5	15	10	14
VHL NW 08	L	PN 400	10	M 16x1,5	16	11	17
VHL NW 10	L	PN 400	12	M 18x1,5	17	11	19
VHL NW 13	L	PN 400	15	M 22x1,5	18	12	24
VHL NW 16	L	PN 315	18	M 26x1,5	19	12	27
VHL NW 20	L	PN 315	22	M 30x2	21	14	32
VHL NW 25	L	PN 250	28	M 36x2	22	14	41
VHL NW 32	L	PN 250	35	M 45x2	25	16	46
VHL NW 40	L	PN 250	42	M 52x2	27	16	55
VHS NW 03	S	PN 630	6	M 14x1,5	18	12	14
VHS NW 04	S	PN 630	8	M 16x1,5	20	12	17
VHS NW 06	S	PN 630	10	M 18x1,5	20	12	19
VHS NW 08	S	PN 630	12	M 20x1,5	22	12	22
VHS NW 10	S	PN 630	14	M 22x1,5	24	14	24
VHS NW 13	S	PN 400	16	M 24x1,5	24	14	27
VHS NW 16	S	PN 400	20	M 30x2	28	16	32
VHS NW 20	S	PN 400	25	M 36x2	32	18	41
VHS NW 25	S	PN 400	30	M 42x2	34	20	46
VHS NW 32	S	PN 315	38	M 52x2	39	22	55

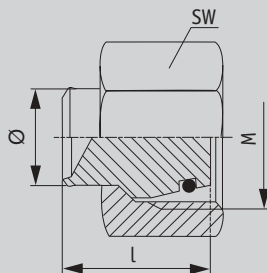
Construction Series: LL = Very Light – L = Light – S = Heavy — Ø = Tube Outside Diameter — PN = Nominal Pressure — PB = Maximal Working Pressure

VLM / VSM

Coupling Plugs with O-Ring-Seal

with 24° inner cone and with nut

Article category 5237, 5338



Designation	Series	Pressure	Ø	M	l	SW	O-Ring
VLM NW 04	L	PN 400	6	M 12x1,5	17,5	14	4x1,5
VLM NW 06	L	PN 400	8	M 14x1,5	18,5	17	6x1,5
VLM NW 08	L	PN 400	10	M 16x1,5	19	19	7,5x1,5
VLM NW 10	L	PN 400	12	M 18x1,5	19	22	9x1,5
VLM NW 13	L	PN 400	15	M 22x1,5	19,5	27	12x2
VLM NW 16	L	PN 315	18	M 26x1,5	20	32	15x2
VLM NW 20	L	PN 315	22	M 30x2	20,5	36	20x2
VLM NW 25	L	PN 250	28	M 36x2	21	41	26x2
VLM NW 32	L	PN 250	35	M 45x2	23,5	50	32x2,5
VLM NW 40	L	PN 250	42	M 52x2	23,5	60	38x2,5
VSM NW 03	S	PN 630	6	M 14x1,5	17,5	17	4x1,5
VSM NW 04	S	PN 630	8	M 16x1,5	18,5	19	6x1,5
VSM NW 06	S	PN 630	10	M 18x1,5	19	22	7,5x1,5
VSM NW 08	S	PN 630	12	M 20x1,5	19	24	9x1,5
VSM NW 10	S	PN 630	14	M 22x1,5	20	27	10x2
VSM NW 13	S	PN 400	16	M 24x1,5	20	30	12x2
VSM NW 16	S	PN 400	20	M 30x2	24	36	16,3x2,4
VSM NW 20	S	PN 400	25	M 36x2	25	46	20,3x2,4
VSM NW 25	S	PN 400	30	M 42x2	26,5	50	25,3x2,4
VSM NW 32	S	PN 315	38	M 52x2	28,5	60	33,3x2,4

Construction Series: LL = Very Light – L = Light – S = Heavy — Ø = Tube Outside Diameter — PN = Nominal Pressure — PB = Maximal Working Pressure

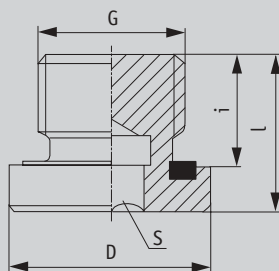
VHM-ED

Blanking Plugs with Captive Seal in Perbunan

Temperature range: -20° to +90°

Thread G: metric parallel

Article category 5239



Designation	Series	G	D	i	l	S
VHM 90-10 ED	PB 400	M 10x1	14	8	12	5
VHM 90-12 ED	PB 400	M 12x1,5	17	12	16	6
VHM 90-14 ED	PB 400	M 14x1,5	19	12	16	6
VHM 90-16 ED	PB 400	M 16x1,5	22	12	16	8
VHM 90-18 ED	PB 400	M 18x1,5	24	12	17	8
VHM 90-20 ED	PB 400	M 20x1,5	26	14	19	10
VHM 90-22 ED	PB 400	M 22x1,5	27	14	19	10
VHM 90-26 ED	PB 400	M 26x1,5	32	16	21	12
VHM 90-27 ED	PB 400	M 27x2	32	16	21	12
VHM 90-33 ED	PB 400	M 33x2	40	16	22,5	17
VHM 90-42 ED	PB 250	M 42x2	50	16	22,5	22
VHM 90-48 ED	PB 250	M 48x2	55	16	22,5	24

Available without seal as FHM.

Construction Series: LL = Very Light – L = Light – S = Heavy — Ø = Tube Outside Diameter — PN = Nominal Pressure — PB = Maximal Working Pressure

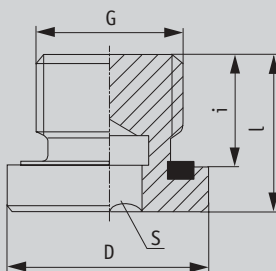
VHR-ED

Blanking Plugs with Captive Seal in Perbunan

Temperature range: -20° to +90°

Thread G: BSP parallel

Article category 5239



Designation	Pressure	G	D	i	l	S
VHR 90-1/8 ED	PB 400	G 1/8"	14	8	12	5
VHR 90-1/4 ED	PB 400	G 1/4"	19	12	16	6
VHR 90-3/8 ED	PB 400	G 3/8"	22	12	16	8
VHR 90-1/2 ED	PB 400	G 1/2"	27	14	19	10
VHR 90-3/4 ED	PB 400	G 3/4"	32	16	21	12
VHR 90-1 ED	PB 400	G 1"	40	16	22,5	17
VHR 90-1 1/4 ED	PS 250	G 1 1/4"	50	16	22,5	22
VHR 90-1 1/2 ED	PB 250	G 1 1/2"	55	16	22,5	24

Available without seal as FHR.

Construction Series: LL = Very Light - L = Light - S = Heavy — Ø = Tube Outside Diameter — PN = Nominal Pressure — PB = Maximal Working Pressure

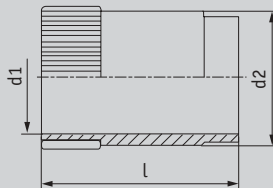
VSH

Reinforcing Rings

for thin-walled tubes

Material: brass

Article category 5241



Designation	Tube OD x wall thickness	Tube Ø ID	d1	d2	l
VSH 4 ID	6x1	4	2,6	3,8	15,5
VSH 5 ID	6x0,5	5	3,6	4,8	15,5
VSH 6 ID	8x1	6	4,6	5,8	15,5
VSH 7 ID	10x1,5	7	5,6	6,8	17
VSH 8 ID	10x1	8	6,6	7,8	16,5
VSH 9 ID	12x1,5	9	7,6	8,8	16,5
VSH 10 ID	12x1	10	8,6	9,8	16,5
VSH 12 ID	15x1,5	12	10,2	11,8	17
VSH 13 ID	15x1	13	11,2	12,8	17
VSH 14 ID	16x1	14	12,2	13,8	17
VSH 15 ID	18x1,5	15	13,2	14,8	17,5
VSH 16 ID	18x1	16	14,2	15,8	17,5
VSH 17 ID	20x1,5	17	15,2	16,8	18
VSH 18 ID	20x1	18	16,2	17,8	22
VSH 19 ID	22x1,5	19	17,2	18,8	18
VSH 20 ID	22x1	20	18,2	19,8	18
VSH 21 ID	25x2	21	19,2	20,8	20
VSH 22 ID	25x1,5	22	20,2	21,8	23,5
VSH 24 ID	28x2	24	22,2	23,8	18
VSH 25 ID	28x1,5	25	23,2	24,8	18
VSH 26 ID	28x1	26	24,2	25,8	21
VSH 27 ID	30x1,5	27	25,2	26,8	21
VSH 30 ID	35x2,5	30	27,2	29,8	21
VSH 31 ID	35x2	31	28,8	30,8	22,5
VSH 32 ID	35x1,5	32	29,2	31,8	22,5
VSH 33 ID	35x1	33	30,2	32,8	22,5
VSH 38 ID	42x2	38	35,8	37,8	23,5

Construction Series: LL = Very Light – L = Light – S = Heavy — Ø = Tube Outside Diameter — PN = Nominal Pressure — PB = Maximal Working Pressure

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