



DS3-SERIES

SANITARY DIAPHRAGM SEAL
- UNION NUT OR MALE THREADED



Threaded coupling union nut

Male threaded coupling



FEATURES



- Laser and plasma double welding standard
- Std. DIN 11851, SMS 1145, APV-RJT, RTJ-IDF
- Wide hygienic application
- Stainless steel wetted parts
- Stainless steel body construction
- Hygienic process application
- Nontoxic silicone liquid filling
- Easy cleaning and maintenance
- Pressure range -1..0, 0..1 up to 40 bar

TECHNICAL SPECIFICATION

- **Design configuration**
Union nut and male fastening
- **Fastening standard**
DIN 11851, SMS 1145, IDF, APV-RJT
- **Working temperature range**
Process -10°..+130°C
Ambient -10°..+40°C
Please refer to filling selection table
- **Design pressure range**
-1 bar..0, 0..1 up to 40 bar
- **Connection size**
Instrument connection G1/2, G1/4 or NPT
- **Wetted parts material**
Stainless steel 316
- **Diaphragm**
Stainless steel 316L, double laser weld
- **Accessories (*Option)**
Stainless steel capillary (Swivel ring)
Cooling tube - Spring
Cooling tube - Mini
Cooling tube - Tube

Table Options for Filling Working Fluid

Filling Fluid	Diaphragm Seal (°C)	Service
Silicon (Standard)	-40°..+130°	Food and industry
Glycerine oil	-5° ..+100°	Food
Propylene glycol	-30°..+100°	Food

Model, Standard, Connection Characteristic and Size

Process thread	DN25 (1")		DN32		DN40 (1½")		DN50 (2")	
	P.min	PN	P.min	PN	P.min	PN	P.min	PN
DIN 11851	0..2,5	40	0..1,6	40	0.. 1	25	0.. 1	25
SMS 1145	N/A	N/A	0..2,5	40	0.. 1	40	0.. 1	40
APV-RJT	N/A	N/A	0.. 6	40	0..1,6	40	0..1,6	40
RTJ-IDF	N/A	N/A	0..2,5	40	0.. 1	40	0.. 1	40

Model, Standard, Connection Characteristic and Size

Model	Standard	Process Connection	Size
DCS511	DIN 11851	Threaded coupling union nut	DN25, DN32, DN40, DN50
DCS512	DIN 11851	Male threaded coupling	DN32, DN40, DN50
DCS513	SMS 1145	Threaded coupling union nut	1", 1½", 2"
DCS514	SMS 1145	Male threaded coupling	1½", 2"
DCS515	APV-RJT	Threaded coupling union nut	1½", 2"
DCS516	APV-RJT	Male threaded coupling	1½", 2"
DCS517	RTJ- IDF	Threaded coupling union nut	1½", 2"
DCS518	RTJ- IDF	Male threaded coupling	1½", 2"



ORDERING CODE



1 MODEL AND STANDARD

	Model and Standard
511	DIN 11851, Threaded coupling union nut
512	DIN 11851, Male threaded coupling
513	SMS 1145, Threaded coupling union nut
514	SMS 1145, Male threaded coupling
515	APV-RJT , Threaded coupling union nut
516	APV-RJT , Male threaded coupling
517	RTJ- IDF , Threaded coupling union nut
518	RTJ- IDF , Male threaded coupling

2 SIZE

	DN Size
2	DN25 or 1"
3	DN32
4	DN40 or 1½"
5	DN50 or 2"

3 INSTRUMENT CONNECTION

	Instrument & Process Connection
G2	G 1/2" (Standard)
N2	1/2" NPT
G4	G 1/4"
N4	1/4" NPT

4 SIZE

	Diaphragm Filling
A	Standard silicone -40°..+130°C
B	Glycerine oil -5° ..+100°C
C	Propylene glycol -30°..+100°C

5 OPTION

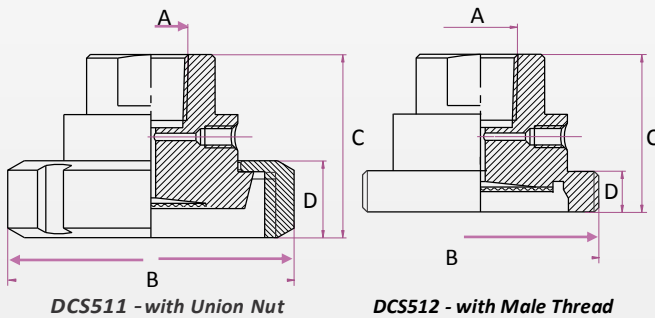
	Option
AC	Capillary (Meter), eg. AC5 - 5 meters
C1	Cooling tube AR100 (Spring)
C2	Cooling tube AR200 (Mini)
C3	Cooling tube AR300 (Tube)



DIMENSIONS (mm)



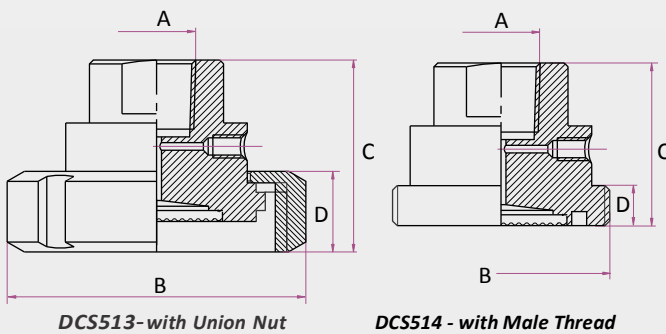
▪ According to DIN 11851 Standard



Model	Product Sizing and Weight						Pressure Gauge	
	DN	A	B	C	D	Weight	Ø63mm	Ø100mm
DCS511	DN25	G½	44	50	21	0,58	10..25	N/A
DIN11851	DN32	G½	50	50	21	0,65	4..40	4..40
	DN40	G½	56	50	23	0,85	4..40	4..40
	DN50	G½	69	50	25	0,97	1,6..40	2,5..40
DCS512	DN32	G½	58x1/6	50	14	0,62	4..40	4..40
DIN11851	DN40	G½	65x1/6	50	14	0,88	4..40	4..40
	DN50	G½	78x1/6	50	16	0,98	1,6..40	2,5..40

- Weights measurement in kg
- Pressure range in Bar
- DCS 512 - Female nut, welded socket as option
- Seal with EPDM, other material on request*

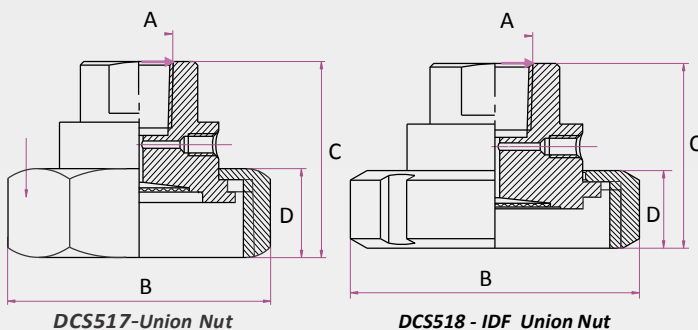
▪ According to SMS 1145 Standard



Model	Product Sizing and Weight						Pressure Gauge	
	DN	A	B	C	D	Weight	Ø63mm	Ø100mm
DCS513	1½"	G½	72	50	25	0,80	4..40	4..40
	2"	G½	82	50	26	0,98	1,6..40	2,5..40
DCS514	1½"	G½	60x1/6	50	15	0,76	4..40	4..40
	2"	G½	70x1/6	50	15	0,92	1,6..40	2,5..40

- Weights measurement in kg
- Pressure range in Bar
- DCS 514 - Female nut, welded socket as option
- Seal with EPDM, other material on request*

▪ According to SMS 1145 Standard



Model	Product Sizing and Weight						Pressure Gauge	
	DN	A	B	C	D	Weight	Ø63mm	Ø100mm
DCS515	1½"	G½	68	55	20	0,70	4..40	4..40
	2"	G½	82	56	22	0,92	1,6..40	2,5..40
DCS517	1½"	G½	65	50	28	0,65	4..40	4..40
	2"	G½	76	50	29	1,08	1,6..40	2,5..40

- Weights measurement in kg
- Pressure range in Bar
- DCS 514 - Female nut, welded socket as option
- Seal with EPDM, other material on request*
- DCS 515 and DCS 517 - Available with male thread type
- DCS 515 - SW connection thread