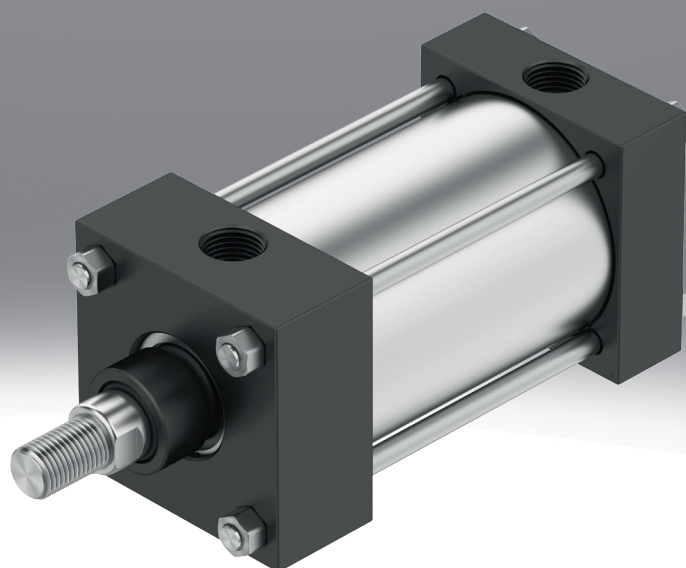


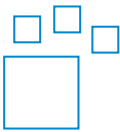
Standards-based cylinder, inches DSNB

FESTO



Characteristics

Ordering data - modular system Additional information → dsnb



Configurable product
This product and all its product options can be ordered online via the configurator.

Lateral force

[R] Elevated

- The piston rod can absorb a higher lateral force

Piston rod type

[] At one end



- The piston rod can be used for connection at one end of the cylinder

[T] Through piston rod



- The piston rod can be used for connection at both ends of the cylinder
- Identical forces in forward and return stroke

Piston rod thread type

[] External thread



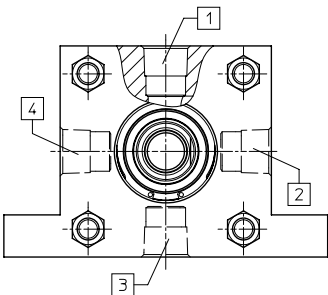
[F] Internal thread



[X] Bolt with male thread



Compressed air connection



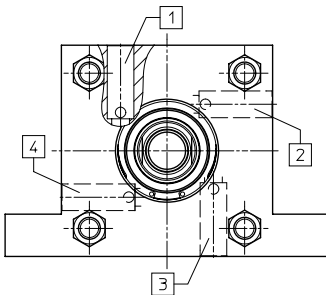
- 1 = [] Lateral
2 = [P90] rotated through 90°
3 = [P180] rotated through 180°
4 = [P270] rotated through 270°

Characteristics

Cushioning

- [N] No cushioning
- [P] Elastic cushioning rings/plates at both ends
- [PP] Pneumatic cushioning at both ends, non-adjustable
- [PP2] Pneumatic cushioning at the front, non-adjustable
- [PP3] Pneumatic cushioning at the rear, non-adjustable
- [PPV] Pneumatic cushioning, adjustable at both ends
- [PPV1] Pneumatic cushioning at the front, adjustable
- [PPV2] Pneumatic cushioning at the rear, adjustable

Adjusting screw position



- 1 = [R1] rotated through 0°
 2 = [R2] rotated through 90°
 3 = [R3] rotated through 180°
 4 = [R4] rotated through 270°

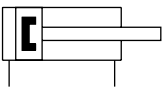
Noise reduction

[SL] Both sides

- Reduces noise generation

Position sensing

[A] For proximity sensor



Standard

[N5] In accordance with ANSI/NFPA

- Conforms to standard NFPA/T3.6.7

Temperature range

[T4] 0 ... +150 °C

- For use in the temperature range 0 ... +150 °C

Scraper variant

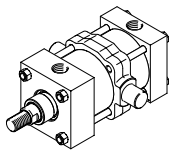
[A6] Metal scraper

- Special seals for a longer service life, e.g. for the use of cooling lubricants

Characteristics

Trunnion flange mounting position, positive-locking

[...MT4] 3.063 ... 102.219"



Piston rod extension

[...NE] 0.0625 ... 6.1250" (increments of 0.0625)

- The piston rod can be extended in steps of 0.0625 inch

Piston rod thread extension

[...NL] 0.0625 ... 4.8750" (increments of 0.0625)

- The piston rod thread can be extended in steps of 0.0625 inch

Piston rod thread

[U716] 7/16-20 UNF

[U12] 1/2-20 UNF

[U34] 3/4-16 UNF

[U78] 7/8-14 UNF

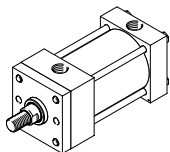
[U1S] 1-14 UNS

[U114] 1 1/4-12 UNF

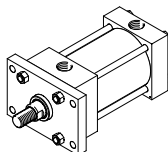
[U112] 1 1/2-12 UNF

Type of mounting

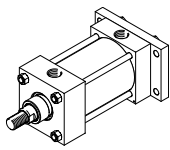
[ME] Direct fastening, female thread



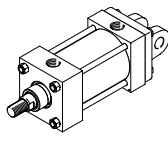
[MF1] Flange plate, bearing cap



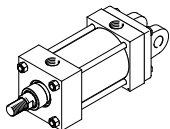
[MF2] Flange plate end cap



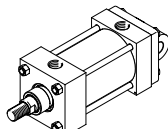
[MP1] Swivel bearing



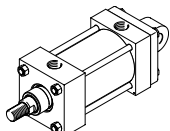
[MP2] Swivel mounting



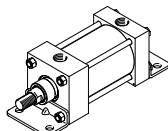
[MP3] Swiveling rod eye mounting in the end cap



[MP4] Swiveling rod eye mounting

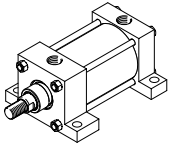


[MS1] Foot mounting

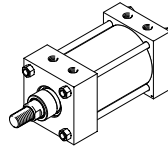


Characteristics

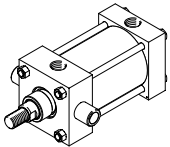
[MS2] Foot mounting at the side



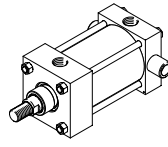
[MS4] Direct mounting



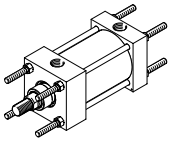
[MT1] Swivel mounting on bearing cap



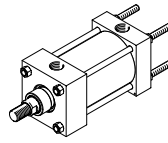
[MT2] Swivel mounting on end cap



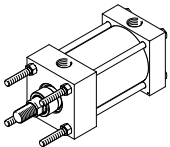
[MX1] Threaded rods at both ends



[MX2] Threaded rod, end cap



[MX3] Threaded rod, bearing cap



Type code

001	Series	
DSNB	Standards-based cylinder	

002	System of units	
N	Imperial	

003	Lateral force	
	Standard	
R	Elevated	

004	Running characteristics	
	Standard	
L	Low friction	

005	Piston diameter ["]	
1 1/2"	1 1/2"	
2"	2"	
2 1/2"	2 1/2"	
3 1/4"	3 1/4"	
4"	4"	
5"	5"	
6"	6"	

006	Stroke ["]	
..."	0.0625 ... 98"	

007	Function	
	Double-acting	

008	Piston rod type	
	At one end	
T	Through piston rod	

009	Piston rod thread type	
	External thread	
F	Internal thread	
X	Bolt with male thread	

010	Pneumatic connection	
N18	1/8 NPT	
N14	1/4 NPT	
N38	3/8 NPT	
N12	1/2 NPT	
N34	3/4 NPT	

011	Compressed air connection	
	Lateral	
P90	Rotated through 90°	
P180	Rotated through 180°	
P270	Rotated through 270°	

012	Cushioning	
N	No cushioning	
P	Elastic cushioning rings/plates at both ends	
PP	Pneumatic cushioning at both ends, non-adjustable	
PP2	Pneumatic cushioning at the front, non-adjustable	
PP3	Pneumatic cushioning at the rear, non-adjustable	
PPV	Pneumatic cushioning, adjustable at both ends	
PPV1	Pneumatic cushioning at the front, adjustable	
PPV2	Pneumatic cushioning at the rear, adjustable	

013	Adjusting screw position	
	Without	
R1	Rotated through 0°	
R2	Rotated through 90°	
R3	Rotated through 180°	
R4	Rotated through 270°	

014	Noise reduction	
	Without	
SL	Both sides	

015	Position sensing	
	Without	
A	For proximity switch	

016	Standard	
N5	In accordance with ANSI/NFPA	

017	Temperature range	
	Standard	
T4	0 ... +150 °C	

018	Scraper variant	
	None	
A6	Metal scraper	

019	Trunnion flange mounting position, positive-locking	
	Without	
...MT4	3.063 ... 102.219"	

020	Piston rod extension	
	Without	
...NE	0.0625 ... 6.1250" (increments of 0.0625)	

021	Piston rod thread extension	
	Without	
...NL	0.0625 ... 4.8750" (increments of 0.0625)	

022	Piston rod thread	
	Standard	
U12	1/2-20 UNF	
U78	7/8-14 UNF	
U112	1 1/2-12 UNF	
U114	1 1/4-12 UNF	

023	Type of mounting	
ME	Direct fastening, female thread	
MF1	Flange plate, bearing cap	
MF2	Flange plate end cap	
MP1	Swivel bearing	
MP2	Swivel mounting	
MP3	Swiveling rod eye mounting in the end cap	
MP4	Swiveling rod eye mounting	
MS1	Foot mounting	
MS2	Foot mounting at the side	
MS4	Direct mounting	
MT1	Swivel mounting on bearing cap	
MT2	Swivel mounting on end cap	
MX1	Threaded rods at both ends	
MX2	Threaded rod, end cap	
MX3	Threaded rod, bearing cap	

Datasheet

General technical data							
Piston diameter	1 1/2"	2"	2 1/2"	3 1/4"	4"	5"	6"
Stroke ["]	0.0625 ... 98"						
Structural design	Piston Piston rod Tie rod Cylinder barrel						
Mode of operation	Double-acting						
Pneumatic connection	1/8 NPT 1/4 NPT 3/8 NPT			1/8 NPT 1/4 NPT 3/8 NPT 1/2 NPT		1/8 NPT 1/4 NPT 3/8 NPT 1/2 NPT 3/4 NPT	
Piston rod end	External thread Internal thread Bolt with male thread			Bolt with male thread External thread Internal thread	External thread Internal thread Bolt with male thread		
Piston rod thread	7/8-14 UNF-2A 7/16-20 UNF-2B 7/16-20 UNF-2A 3/4-16 UNF-2B 3/4-16 UNF-2A 1/2-20 UNF-2A			7/8-14 UNF-2A 1-14 UNS-2A 3/4-16 UNF-2B 3/4-16 UNF-2A 1-14 UNS-2B 1-14 UNS-2A 1 1/4-12 UNF-2A	7/8-14 UNF-2A 3/4-16 UNF-2B 3/4-16 UNF-2A 1-14 UNS-2B 1-14 UNS-2A 1 1/4-12 UNF-2A	1-14 UNS-2B 1-14 UNS-2A 1 1/4-12 UNF-2B 1 1/4-12 UNF-2A 1 1/2-12 UNF-2A	
Cushioning	Pneumatic cushioning, adjustable at both ends Elastic cushioning rings/pads at both ends No cushioning Pneumatic cushioning at both ends, non-adjustable Pneumatic cushioning at the front, non-adjustable Pneumatic cushioning at the rear, adjustable Pneumatic cushioning at the front, non-adjustable Pneumatic cushioning at the rear, adjustable Pneumatic cushioning at the front, adjustable Pneumatic cushioning at the rear, non-adjustable Pneumatic cushioning at the front, non-adjustable Pneumatic cushioning at the rear, adjustable Pneumatic cushioning at the front, adjustable Pneumatic cushioning at the rear, non-adjustable	Pneumatic cushioning at both ends, non-adjustable Pneumatic cushioning at the rear, adjustable Pneumatic cushioning at the front, non-adjustable Pneumatic cushioning at the rear, non-adjustable Pneumatic cushioning at the front, adjustable Pneumatic cushioning, adjustable at both ends Elastic cushioning rings/pads at both ends No cushioning	Pneumatic cushioning, adjustable at both ends Elastic cushioning rings/pads at both ends No cushioning Pneumatic cushioning at both ends, non-adjustable Pneumatic cushioning at the rear, adjustable Pneumatic cushioning at the front, non-adjustable Pneumatic cushioning at the rear, adjustable Pneumatic cushioning at the front, non-adjustable Pneumatic cushioning at the rear, non-adjustable Pneumatic cushioning at the front, adjustable Pneumatic cushioning at the rear, non-adjustable	Pneumatic cushioning at both ends, non-adjustable Pneumatic cushioning at the rear, adjustable Pneumatic cushioning at the front, non-adjustable Pneumatic cushioning at the front, adjustable Pneumatic cushioning at the rear, non-adjustable Pneumatic cushioning at the front, non-adjustable Pneumatic cushioning at the rear, non-adjustable Elastic cushioning rings/pads at both ends No cushioning	Pneumatic cushioning at both ends, non-adjustable Pneumatic cushioning at the rear, adjustable Pneumatic cushioning at the front, non-adjustable Pneumatic cushioning at the front, adjustable Pneumatic cushioning at the rear, non-adjustable Pneumatic cushioning at the front, non-adjustable Pneumatic cushioning at the rear, non-adjustable Elastic cushioning rings/pads at both ends No cushioning	Pneumatic cushioning at both ends, non-adjustable Pneumatic cushioning at the front, non-adjustable Pneumatic cushioning at the rear, non-adjustable Pneumatic cushioning at the front, adjustable Pneumatic cushioning at the rear, adjustable Pneumatic cushioning at the front, non-adjustable Pneumatic cushioning at the rear, non-adjustable Elastic cushioning rings/pads at both ends No cushioning	Pneumatic cushioning at both ends, non-adjustable Pneumatic cushioning at the front, non-adjustable Pneumatic cushioning at the rear, adjustable Pneumatic cushioning at the front, adjustable Pneumatic cushioning at the rear, non-adjustable Pneumatic cushioning at the front, adjustable Pneumatic cushioning at the rear, non-adjustable Elastic cushioning rings/pads at both ends No cushioning
Position sensing	None For proximity sensor						
Type of mounting	Optionally: Direct fastening via thread With accessories						
Mounting position	Any						
	Rotated through 180° Rotated through 270° Rotated through 0° Rotated through 90°						

Datasheet

Operating and environmental conditions							
Piston diameter	1 1/2"	2"	2 1/2"	3 1/4"	4"	5"	6"
Conforms to standard	NFPA/T3.6.7						
Operating pressure	0.048 ... 1 MPa						
Operating pressure	6.96 ... 145 psi						
Operating pressure	0.48 ... 10 bar						
Operating medium	Compressed air as per ISO 8573-1:2010 [7:4:4]						
Information on operating and pilot media	Operation with oil lubrication possible (required for further use)						
Ambient temperature ¹⁾	-20 ... 150°C						
Ambient temperature Fahrenheit ²⁾	-4 ... 302°F						
Corrosion resistance class (CRC) ³⁾	1 - Low corrosion stress						

1) Note operating range of proximity switches

2) Note operating range of proximity switches

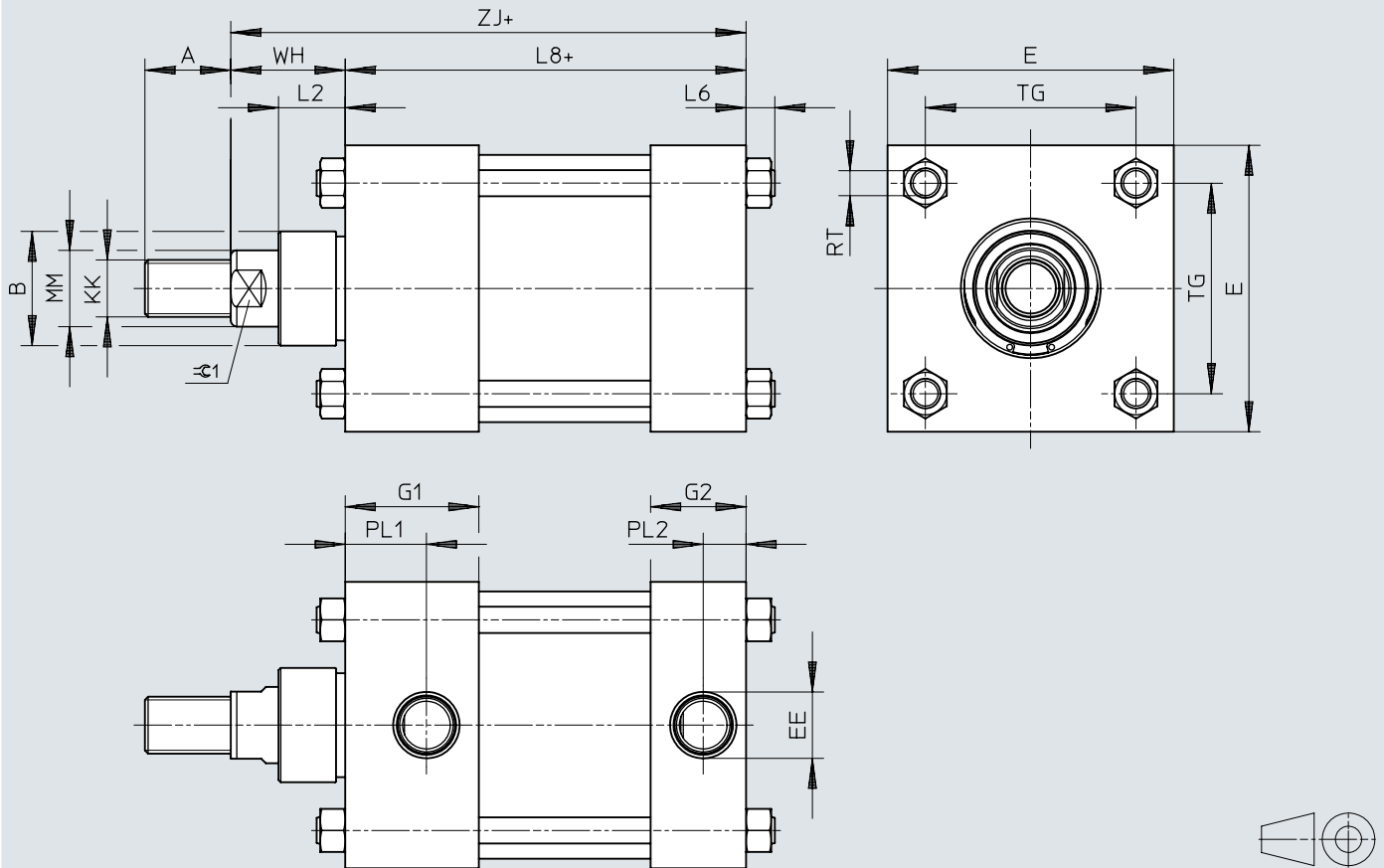
3) Corrosion resistance class KBK 1 according to Festo standard FN 940070 low corrosion stress. Dry interior application or transport and storage protection. Also applies to parts behind covers, in the non-visible interior area, or parts that are covered in the application (e.g. drive pins).

Forces							
Piston diameter	1 1/2"	2"	2 1/2"	3 1/4"	4"	5"	6"
Theoretical force at 6 bar, advancing	680 N	1,178 N	1,930 N	3,246 N	4,903 N	7,601 N	10,888 N
Theoretical force at 6 bar, retracting	563 N	990 N	1,811 N	2,942 N	4,599 N	7,297 N	10,313 N

Materials							
Piston diameter	1 1/2"	2"	2 1/2"	3 1/4"	4"	5"	6"
Cover material	Wrought aluminum alloy, anodized						
Seals material	NBR FPM PUR						
Piston rod material	Steel, hard-chrome-plated						
Material of cylinder barrel	Wrought aluminum alloy, smooth-anodized						
Note on materials	RoHS-compliant						
LABS (PWIS) conformity	VDMA24364 zone III						

Dimensions

Dimensions – Basic type

Download CAD data → www.festo.com

[1] + = plus stroke length

Dimensions

∅	A	B ∅	E	EE	G1	G2	MM ∅	L2
DSNB-N-1 1/2"-...	0.75	1.125	2	3/8	1.438	0.973	0.625	0.625
DSNB-NR-1 1/2"-...	1.125	1.5	2	1/4	1.438	0.973	1	0.875
DSNB-N-2"-...	0.75	1.125	2.5	3/8	1.438	0.973	0.625	0.625
DSNB-NR-2"-...	1.125	1.5	2.5	3/8	1.438	0.973	1	0.875
DSNB-N-2 1/2"-...	0.75	1.125	3	3/8	1.438	0.973	0.625	0.625
DSNB-NR-2 1/2"-...	1.125	1.5	3	3/8	1.438	0.973	1	0.875
DSNB-N-3 1/4"-...	1.125	1.5	3.75	1/2	1.656	1.156	1	0.875
DSNB-NR-3 1/4"-...	1.625	2	3.75	1/2	1.656	1.156	1.375	1
DSNB-N-4"-...	1.125	1.5	4.5	1/2	1.656	1.156	1	0.875
DSNB-NR-4"-...	1.625	2	4.5	1/2	1.656	1.156	1.375	1
DSNB-N-5"-...	1.125	1.5	5.5	1/2	1.656	1.156	1	0.875
DSNB-NR-5"-...	1.625	2	5.5	1/2	1.656	1.156	1.375	1
DSNB-N-6"-...	1.625	2	6.5	3/4	1.906	1.406	1.375	1
DSNB-NR-6"-...	2	2.375	6.5	3/4	1.906	1.406	1.75	1.125

∅	L6	L8 ¹⁾ ±0.03	PL1	PL2	RT	TG	WH ²⁾ ±0.08	ZJ ¹⁾
DSNB-N-1 1/2"-...	0.25	3.625	0.938	0.437	1/4-28 UNF-2B	1.428	1	4.625
DSNB-NR-1 1/2"-...	0.25	3.625	1.085	0.437	1/4-28 UNF-2B	1.428	1.375	5
DSNB-N-2"-...	0.313	3.625	0.938	0.437	5/16-24 UNF-2B	1.838	1	4.625
DSNB-NR-2"-...	0.313	3.625	0.938	0.437	5/16-24 UNF-2B	1.838	1.375	5
DSNB-N-2 1/2"-...	0.313	3.75	0.938	0.437	5/16-24 UNF-2B	2.192	1	4.749
DSNB-NR-2 1/2"-...	0.313	3.75	0.938	0.437	5/16-24 UNF-2B	2.192	1.375	5.125
DSNB-N-3 1/4"-...	0.375	4.25	1.063	0.562	3/8-24 UNF-2B	2.758	1.375	5.625
DSNB-NR-3 1/4"-...	0.375	4.25	1.063	0.562	3/8-24 UNF-2B	2.758	1.625	5.875
DSNB-N-4"-...	0.375	4.25	1.063	0.562	3/8-24 UNF-2B	3.323	1.375	5.625
DSNB-NR-4"-...	0.375	4.25	1.063	0.562	3/8-24 UNF-2B	3.323	1.625	5.875
DSNB-N-5"-...	0.5	4.5	1.063	0.562	1/2-20 UNF-2B	4.101	1.375	5.875
DSNB-NR-5"-...	0.5	4.5	1.063	0.562	1/2-20 UNF-2B	4.101	1.625	6.125
DSNB-N-6"-...	0.5	5	1.188	0.687	1/2-20 UNF-2B	4.879	1.625	6.625
DSNB-NR-6"-...	0.5	5	1.188	0.687	1/2-20 UNF-2B	4.879	1.875	6.875

∅	KK								≈G1								3)		
		U34	U1S	U112	U12	U78	U114	U716		U34	U1S	U112	U12	U78	U114	U716	0 psi	80 psi	100 psi
DSNB-N-1 1/2"-...	7/16-20 UNF-2A				1/2-20 UNF-2A				0.562				0.562				0.106	0	0
DSNB-NR-1 1/2"-...	3/4-16 UNF-2A				7/8-14 UNF-2A				0.875				0.875				0.106	0	0
DSNB-N-2"-...	7/16-20 UNF-2A				1/2-20 UNF-2A				0.562				0.562				0.09	0.018	0
DSNB-NR-2"-...	3/4-16 UNF-2A				7/8-14 UNF-2A				0.875				0.875				0.09	0.018	0
DSNB-N-2 1/2"-...	7/16-20 UNF-2A				1/2-20 UNF-2A				0.562				0.562				0.201	0.008	0
DSNB-NR-2 1/2"-...	3/4-16 UNF-2A				7/8-14 UNF-2A				0.875				0.875				0.201	0.008	0
DSNB-N-3 1/4"-...	3/4-16 UNF-2A				7/8-14 UNF-2A				0.875				0.875				0.16	0.038	0
DSNB-NR-3 1/4"-...	1-14 UNS-2A				1 1/4-12 UNF-2A				1.125				1.25				0.16	0.038	0
DSNB-N-4"-...	3/4-16 UNF-2A				7/8-14 UNF-2A				0.875				0.875				0.15	0.005	0
DSNB-NR-4"-...	1-14 UNS-2A				1 1/4-12 UNF-2A				1.125				1.25				0.15	0.005	0
DSNB-N-5"-...	3/4-16 UNF-2A				7/8-14 UNF-2A				0.875				0.813				0.219	0.015	0
DSNB-NR-5"-...	1-14 UNS-2A				1 1/4-12 UNF-2A				1.125				1.25				0.219	0.015	0
DSNB-N-6"-...	1-14 UNS-2A				1 1/4-12 UNF-2A				1.125				1.25				—	—	—
DSNB-NR-6"-...	1 1/4-12 UNF-2A				1 1/2-12 UNF-2A				1.5				1.5				—	—	—

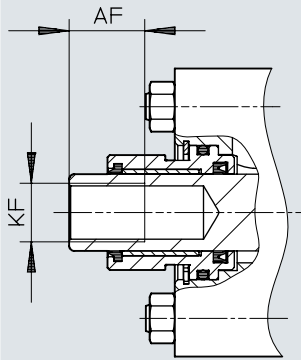
1) With damping [P] plus 0.214 inch

2) With noise reduction [SL] at 100 psi

3) With noise damping [SL]: reduction of stroke length

Dimensions

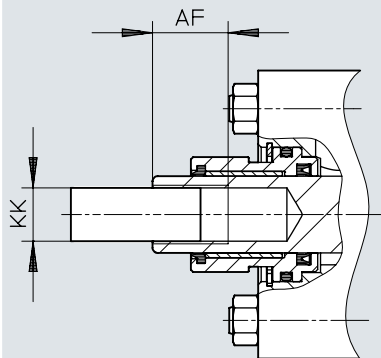
Dimensions – [F] Internal thread

Download CAD data → www.festo.com

Ø	AF	KF							
			U34	U1S	U112	U12	U78	U114	U716
DSNB-N-1 1/2"-....-F	0.75	7/16-20 UNF-2B				1/2-20 UNF-2B			
DSNB-NR-1 1/2"-....-F	1.125	3/4-16 UNF-2B				7/8-14 UNF-2B			
DSNB-N-2"-....-F	0.75	7/16-20 UNF-2B				1/2-20 UNF-2B			
DSNB-NR-2"-....-F	1.125	3/4-16 UNF-2B				7/8-14 UNF-2B			
DSNB-N-2 1/2"-....-F	0.75	7/16-20 UNF-2B				1/2-20 UNF-2B			
DSNB-NR-2 1/2"-....-F	1.125	3/4-16 UNF-2B				7/8-14 UNF-2B			
DSNB-N-3 1/4"-....-F	1.125	3/4-16 UNF-2B				7/8-14 UNF-2B			
DSNB-NR-3 1/4"-....-F	1.625	1-14 UNS-2B				1 1/4-12 UNF-2B			
DSNB-N-4"-....-F	1.125	3/4-16 UNF-2B				7/8-14 UNF-2B			
DSNB-NR-4"-....-F	1.625	1-14 UNS-2B				1 1/4-12 UNF-2B			
DSNB-N-5"-....-F	1.125	3/4-16 UNF-2B				7/8-14 UNF-2B			
DSNB-NR-5"-....-F	1.625	1-14 UNS-2B				1 1/4-12 UNF-2B			
DSNB-N-6"-....-F	1.625	1-14 UNS-2B				1 1/4-12 UNF-2B			
DSNB-NR-6"-....-F	2	1 1/4-12 UNF-2B				1 1/2-12 UNF-2B			

Dimensions

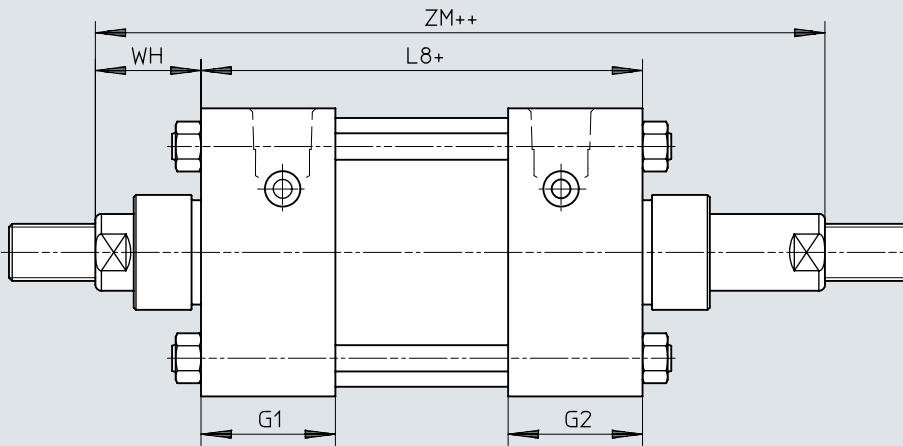
Dimensions – [X] Bolt with male thread

Download CAD data → www.festo.com

ø	AF	KK							
			U34	U1S	U112	U12	U78	U114	U716
DSNB-N-1 1/2"-...-X	0.75	7/16-20 UNF-2A				1/2-20 UNF-2A			
DSNB-NR-1 1/2"-...-X	1.125	3/4-16 UNF-2A				7/8-14 UNF-2A			
DSNB-N-2"-...-X	0.75	7/16-20 UNF-2A				1/2-20 UNF-2A			
DSNB-NR-2"-...-X	1.125	3/4-16 UNF-2A				7/8-14 UNF-2A			
DSNB-N-2 1/2"-...-X	0.75	7/16-20 UNF-2A				1/2-20 UNF-2A			
DSNB-NR-2 1/2"-...-X	1.125	3/4-16 UNF-2A				7/8-14 UNF-2A			
DSNB-N-3 1/4"-...-X	1.125	3/4-16 UNF-2A				7/8-14 UNF-2A			
DSNB-NR-3 1/4"-...-X	1.625	1-14 UNS-2A				1 1/4-12 UNF-2A			
DSNB-N-4"-...-X	1.125	3/4-16 UNF-2A				7/8-14 UNF-2A			
DSNB-NR-4"-...-X	1.625	1-14 UNS-2A				1 1/4-12 UNF-2A			
DSNB-N-5"-...-X	1.125	3/4-16 UNF-2A				7/8-14 UNF-2A			
DSNB-NR-5"-...-X	1.625	1-14 UNS-2A				1 1/4-12 UNF-2A			
DSNB-N-6"-...-X	1.625	1-14 UNS-2A				1 1/4-12 UNF-2A			
DSNB-NR-6"-...-X	2	1 1/4-12 UNF-2A				1 1/2-12 UNF-2A			

Dimensions

Dimensions – [T] Through piston rod

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[1] + = plus stroke length

[2] ++ = plus 2x stroke length

Ø	G1	G2	L8 ¹⁾	WH ²⁾	ZM ¹⁾	³⁾		
						0 psi	80 psi	100 psi
DSNB-N-1 1/2"-...-T	1.438	1.438	4.125	1	6.125	0.106	0	0
DSNB-NR-1 1/2"-...-T	1.438	1.438	4.125	1.375	6.875	0.106	0	0
DSNB-N-2"-...-T	1.438	1.438	4.125	1	6.125	0.09	0.018	0
DSNB-NR-2"-...-T	1.438	1.438	4.125	1.375	6.875	0.09	0.018	0
DSNB-N-2 1/2"-...-T	1.438	1.438	4.25	1	6.25	0.201	0.008	0
DSNB-NR-2 1/2"-...-T	1.438	1.438	4.25	1.375	7	0.201	0.008	0
DSNB-N-3 1/4"-...-T	1.656	1.656	4.75	1.375	7.5	0.16	0.038	0
DSNB-NR-3 1/4"-...-T	1.656	1.656	4.75	1.625	8	0.16	0.038	0
DSNB-N-4"-...-T	1.656	1.656	4.75	1.375	7.5	0.15	0.005	0
DSNB-NR-4"-...-T	1.656	1.656	4.75	1.625	8	0.15	0.005	0
DSNB-N-5"-...-T	1.656	1.656	5	1.375	7.5	0.219	0.015	0
DSNB-NR-5"-...-T	1.656	1.656	5	1.625	8.25	0.219	0.015	0
DSNB-N-6"-...-T	1.906	1.906	5.5	1.625	8.75	–	–	–
DSNB-NR-6"-...-T	1.906	1.906	5.5	1.875	9.25	–	–	–

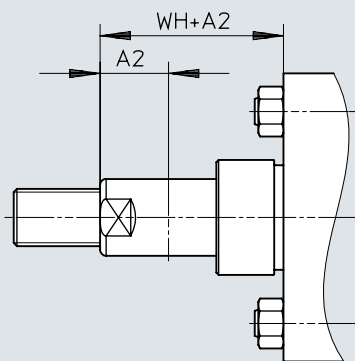
1) With damping [P] plus 0.214 inch

2) With noise reduction [SL] at 100 psi

3) With noise damping [SL]: reduction of stroke length

Dimensions

Dimensions – [NE] Piston rod extension

Download CAD data → www.festo.com

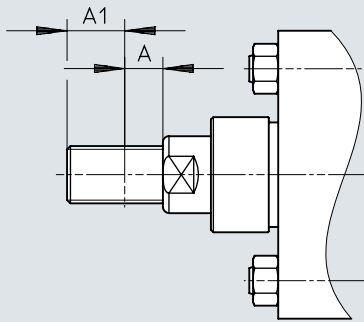
ø	A2		WH ¹⁾	2)		
	min.	max.	±0.08	0 psi	80 psi	100 psi
DSNB-N-1 1/2"-...-NE	0.0625	6.125	1	0.106	0	0
DSNB-NR-1 1/2"-...-NE	0.0625	6.125	1.375	0.106	0	0
DSNB-N-2"-...-NE	0.0625	6.125	1	0.09	0.018	0
DSNB-NR-2"-...-NE	0.0625	6.125	1.375	0.09	0.018	0
DSNB-N-2 1/2"-...-NE	0.0625	6.125	1	0.201	0.008	0
DSNB-NR-2 1/2"-...-NE	0.0625	6.125	1.375	0.201	0.008	0
DSNB-N-3 1/4"-...-NE	0.0625	6.125	1.375	0.16	0.038	0
DSNB-NR-3 1/4"-...-NE	0.0625	6.125	1.625	0.16	0.038	0
DSNB-N-4"-...-NE	0.0625	6.125	1.375	0.15	0.005	0
DSNB-NR-4"-...-NE	0.0625	6.125	1.625	0.15	0.005	0
DSNB-N-5"-...-NE	0.0625	6.125	1.375	0.219	0.015	0
DSNB-NR-5"-...-NE	0.0625	6.125	1.625	0.219	0.015	0
DSNB-N-6"-...-NE	0.0625	6.125	1.625	–	–	–
DSNB-NR-6"-...-NE	0.0625	6.125	1.875	–	–	–

1) With noise reduction [SL] at 100 psi

2) With noise damping [SL]: reduction of stroke length

Dimensions

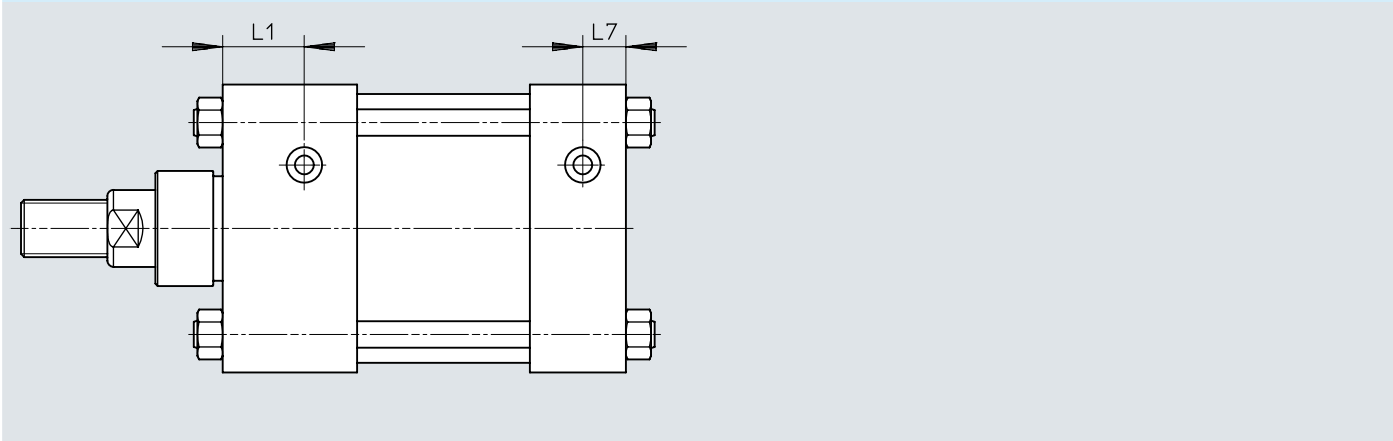
Dimensions – [NL] Piston rod thread extension

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Ø	A	A1	
		min.	max.
DSNB-N-1 1/2"-....-NL	0.75	0.0625	4.875
DSNB-NR-1 1/2"-....-NL	1.125	0.0625	4.875
DSNB-N-2"-....-NL	0.75	0.0625	4.875
DSNB-NR-2"-....-NL	1.125	0.0625	4.875
DSNB-N-2 1/2"-....-NL	0.75	0.0625	4.875
DSNB-NR-2 1/2"-....-NL	1.125	0.0625	4.875
DSNB-N-3 1/4"-....-NL	1.125	0.0625	4.875
DSNB-NR-3 1/4"-....-NL	1.625	0.0625	4.875
DSNB-N-4"-....-NL	1.125	0.0625	4.875
DSNB-NR-4"-....-NL	1.625	0.0625	4.875
DSNB-N-5"-....-NL	1.125	0.0625	4.875
DSNB-NR-5"-....-NL	1.625	0.0625	4.875
DSNB-N-6"-....-NL	1.625	0.0625	4.875
DSNB-NR-6"-....-NL	2	0.0625	4.875

Dimensions

Dimensions – [P] [PP] [PP2] [PP3] [PPV] [PPV1] [PPV2] Damping Download CAD data → www.festo.com



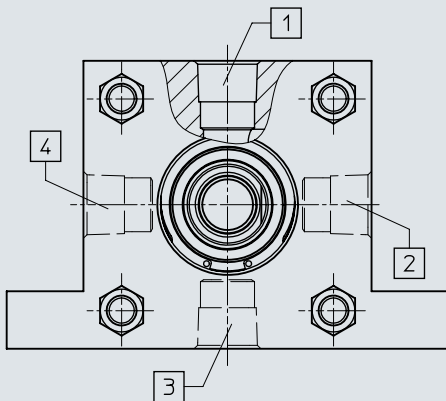
Dimensions

Ø	L1	L7
DSNB-N-1 1/2"-....-PP/PPV	1	0.5
DSNB-N-1 1/2"-....-PP2/PPV1	1	–
DSNB-N-1 1/2"-....-PP3/PPV2	–	0.5
DSNB-NR-1 1/2"-....-PP/PPV	1	0.5
DSNB-NR-1 1/2"-....-PP2/PPV1	1	–
DSNB-NR-1 1/2"-....-PP3/PPV2	–	0.5
DSNB-N-2"-....-PP/PPV	1	0.5
DSNB-N-2"-....-PP2/PPV1	1	–
DSNB-N-2"-....-PP3/PPV2	–	0.5
DSNB-NR-2"-....-PP/PPV	1	0.5
DSNB-NR-2"-....-PP2/PPV1	1	–
DSNB-NR-2"-....-PP3/PPV2	–	0.5
DSNB-N-2 1/2"-....-PP/PPV	1	0.5
DSNB-N-2 1/2"-....-PP2/PPV1	1	–
DSNB-N-2 1/2"-....-PP3/PPV2	–	0.5
DSNB-NR-2 1/2"-....-PP/PPV	1	0.5
DSNB-NR-2 1/2"-....-PP2/PPV1	1	–
DSNB-NR-2 1/2"-....-PP3/PPV2	–	0.5
DSNB-N-3 1/4"-....-PP/PPV	1.06	0.56
DSNB-N-3 1/4"-....-PP2/PPV1	1.06	–
DSNB-N-3 1/4"-....-PP3/PPV2	–	0.56
DSNB-NR-3 1/4"-....-PP/PPV	1.06	0.56
DSNB-NR-3 1/4"-....-PP2/PPV1	1.06	–
DSNB-NR-3 1/4"-....-PP3/PPV2	–	0.56
DSNB-N-4"-....-PP/PPV	1.06	0.56
DSNB-N-4"-....-PP2/PPV1	1.06	–
DSNB-N-4"-....-PP3/PPV2	–	0.56
DSNB-NR-4"-....-PP/PPV	1.06	0.56
DSNB-NR-4"-....-PP2/PPV1	1.06	–
DSNB-NR-4"-....-PP3/PPV2	–	0.56
DSNB-N-5"-....-PP/PPV	1.06	0.56
DSNB-N-5"-....-PP2/PPV1	1.06	–
DSNB-N-5"-....-PP3/PPV2	–	0.56
DSNB-NR-5"-....-PP/PPV	1.06	0.56
DSNB-NR-5"-....-PP2/PPV1	1.06	–
DSNB-NR-5"-....-PP3/PPV2	–	0.56
DSNB-N-6"-....-PP/PPV	1.19	0.69
DSNB-N-6"-....-PP2/PPV1	1.19	–
DSNB-N-6"-....-PP3/PPV2	–	0.69
DSNB-NR-6"-....-PP/PPV	1.19	0.69
DSNB-NR-6"-....-PP2/PPV1	1.19	–
DSNB-NR-6"-....-PP3/PPV2	–	0.69

Dimensions

Dimensions – [] [P90] [P180] [P270] Position of compressed air connection

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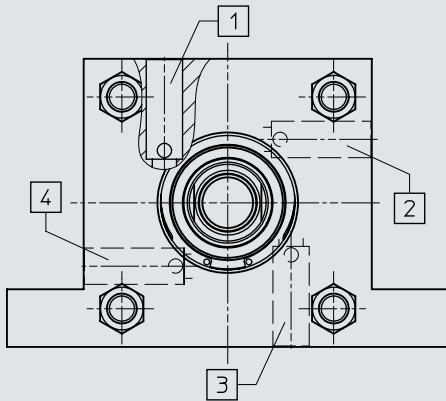


- [1] [] Lateral
- [2] [P90] rotated through 90°
- [3] [P180] rotated through 180°
- [4] [P270] rotated through 270°

Dimensions

Dimensions – [R1] [R2] [R3] [R4] Position of the adjusting screw

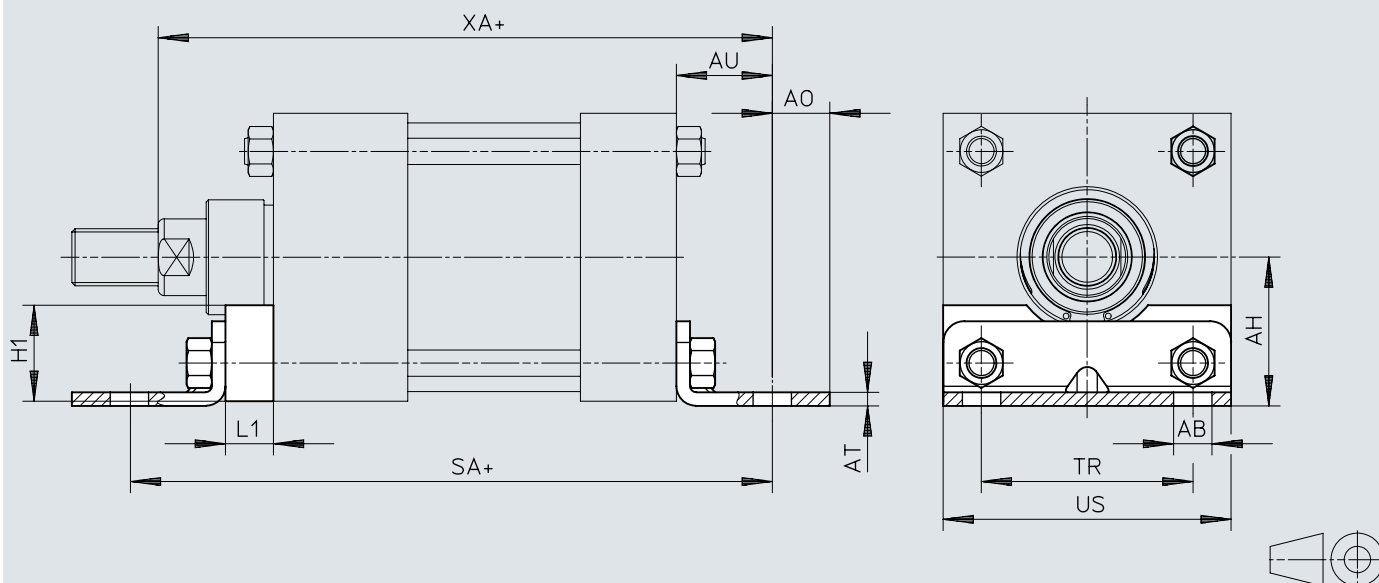
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- [1] [R1] rotated through 0°
- [2] [R2] rotated through 90°
- [3] [R3] rotated through 180°
- [4] [R4] rotated through 270°

Dimensions

Dimensions – [MS1] Foot mounting

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[1] + = plus stroke length

ø	AB	AH	AO	AT	AU	H1	L1	SA ¹⁾	TR	XA ¹⁾²⁾	US	3)		
												0 psi	80 psi	100 psi
								±0.06						
DSNB-N-1 1/2"-...-MS1	0.375	1.888	0.375	0.125	1	0.75	0.375	6	1.25	5.625	2	0.106	0	0
DSNB-NR-1 1/2"-...-MS1	0.375	1.888	0.375	0.125	1	0.75	0.375	6	1.25	6	2	0.106	0	0
DSNB-N-2"-...-MS1	0.375	1.438	0.375	0.125	1	0.75	0.375	6	1.75	5.625	2.5	0.09	0.018	0
DSNB-NR-2"-...-MS1	0.375	1.438	0.375	0.125	1	0.75	0.375	6	1.75	6	2.5	0.09	0.018	0
DSNB-N-2 1/2"-...-MS1	0.375	1.625	0.375	0.125	1	1	0.375	6.125	2.25	5.75	3	0.201	0.008	0
DSNB-NR-2 1/2"-...-MS1	0.375	1.625	0.375	0.125	1	1	0.375	6.125	2.25	6.125	3	0.201	0.008	0
DSNB-N-3 1/4"-...-MS1	0.5	1.938	0.5	0.125	1.25	1.25	0.625	7.375	2.75	6.875	3.75	0.16	0.038	0
DSNB-NR-3 1/4"-...-MS1	0.5	1.938	0.5	0.125	1.25	1.25	0.625	7.375	2.75	7.125	3.75	0.16	0.038	0
DSNB-N-4"-...-MS1	0.5	2.25	0.5	0.125	1.25	1.25	0.625	7.375	3.5	6.875	4.5	0.15	0.005	0
DSNB-NR-4"-...-MS1	0.5	2.25	0.5	0.125	1.25	1.25	0.625	7.375	3.5	7.125	4.5	0.15	0.005	0
DSNB-N-5"-...-MS1	0.625	2.75	0.625	0.188	1.375	1.5	0.625	7.875	4.25	7.25	5.5	0.219	0.015	0
DSNB-NR-5"-...-MS1	0.625	2.75	0.625	0.188	1.375	1.5	0.625	7.875	4.25	7.5	5.5	0.219	0.015	0
DSNB-N-6"-...-MS1	0.75	3.25	0.625	0.188	1.375	1.5	0.75	8.5	5.25	8	6.5	—	—	—
DSNB-NR-6"-...-MS1	0.75	3.25	0.625	0.188	1.375	1.5	0.75	8.5	5.25	8.25	6.5	—	—	—

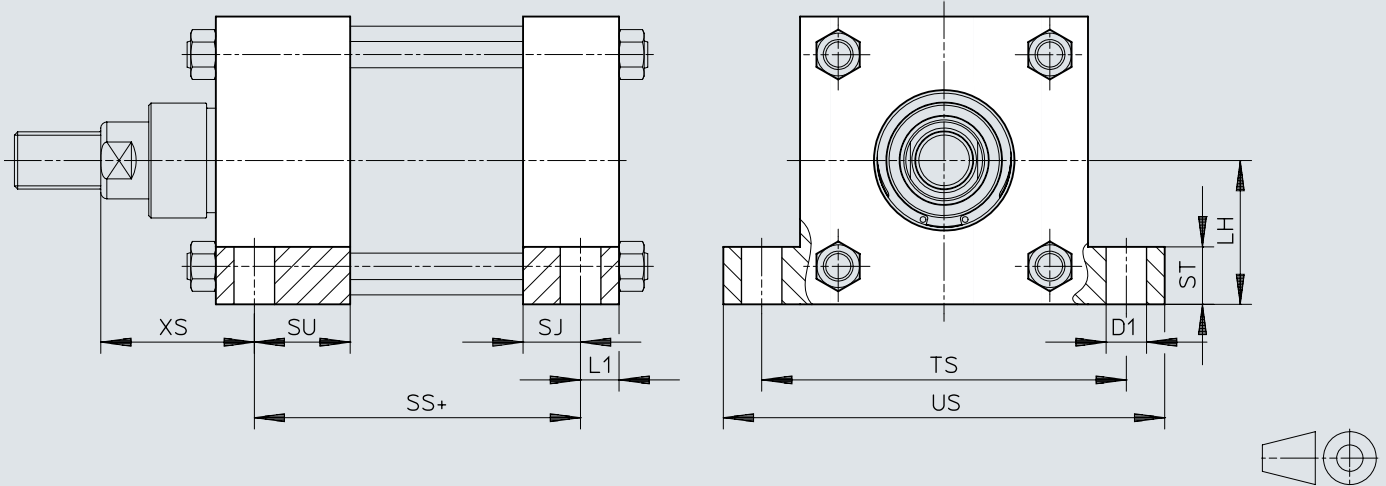
1) With damping [P] plus 0.214 inch

2) With noise reduction [SL] at 100 psi

3) With noise damping [SL]: reduction of stroke length

Dimensions

Dimensions – [MS2] Foot mounting at the side

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[1] += plus stroke length

Ø	D1	L1	LH	SJ	SS ¹⁾	ST	SU	TS	US	XS ²⁾	3)		
											0 psi	80 psi	100 psi
DSNB-N-1 1/2"-....-MS2	3/8 UNF-2B	0.375	1	0.562	2.875	0.5	1.063	2.75	3.5	1.375	0.106	0	0
DSNB-NR-1 1/2"-....-MS2	3/8 UNF-2B	0.375	1	0.562	2.875	0.5	1.063	2.75	3.5	1.75	0.106	0	0
DSNB-N-2"-....-MS2	3/8 UNF-2B	0.375	1.25	0.562	2.875	0.5	1.063	3.25	4	1.375	0.09	0.018	0
DSNB-NR-2"-....-MS2	3/8 UNF-2B	0.375	1.25	0.562	2.875	0.5	1.063	3.25	4	1.75	0.09	0.018	0
DSNB-N-2 1/2"-....-MS2	3/8 UNF-2B	0.375	1.5	0.562	3	0.5	1.063	3.75	4.5	1.375	0.201	0.008	0
DSNB-NR-2 1/2"-....-MS2	3/8 UNF-2B	0.375	1.5	0.562	3	0.5	1.063	3.75	4.5	1.75	0.201	0.008	0
DSNB-N-3 1/4"-....-MS2	1/2 UNF-2B	0.5	1.875	0.656	3.25	0.75	1.156	4.75	5.75	1.875	0.16	0.038	0
DSNB-NR-3 1/4"-....-MS2	1/2 UNF-2B	0.5	1.875	0.656	3.25	0.75	1.156	4.75	5.75	2.125	0.16	0.038	0
DSNB-N-4"-....-MS2	1/2 UNF-2B	0.5	2.25	0.656	3.25	0.75	1.156	5.5	6.5	1.875	0.15	0.005	0
DSNB-NR-4"-....-MS2	1/2 UNF-2B	0.5	2.25	0.656	3.25	0.75	1.156	5.5	6.5	2.125	0.15	0.005	0
DSNB-N-5"-....-MS2	3/4 UNF-2B	0.688	2.75	0.438	3.125	1	0.969	6.875	8.25	2.063	0.219	0.015	0
DSNB-NR-5"-....-MS2	3/4 UNF-2B	0.688	2.75	0.438	3.125	1	0.969	6.875	8.25	2.313	0.219	0.015	0
DSNB-N-6"-....-MS2	3/4 UNF-2B	0.688	3.25	0.718	3.625	1	1.219	7.875	9.25	2.313	–	–	–
DSNB-NR-6"-....-MS2	3/4 UNF-2B	0.688	3.25	0.718	3.625	1	1.219	7.875	9.25	2.563	–	–	–

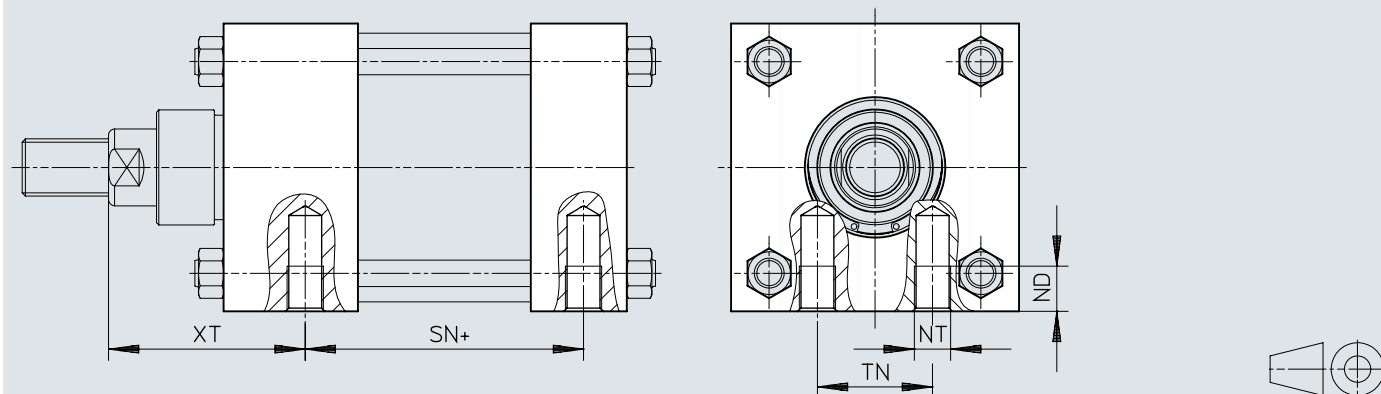
1) With damping [P] plus 0.214 inch

2) With noise reduction [SL] at 100 psi

3) With noise damping [SL]: reduction of stroke length

Dimensions

Dimensions – [MS4] Direct mounting

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[1] + = plus stroke length

ø	ND	NT	SN ¹⁾ ±0.05	TN	XT ²⁾ ±0.08	3)		
						0 psi	80 psi	100 psi
DSNB-N-1 1/2"-...-MS4	0.375	1/4-20 UNF-2B	2.25	0.625	1.938	0.106	0	0
DSNB-NR-1 1/2"-...-MS4	0.313	1/4-20 UNF-2B	2.25	0.625	2.313	0.106	0	0
DSNB-N-2"-...-MS4	0.5	5/16-18 UNF-2B	2.25	0.875	1.938	0.09	0.018	0
DSNB-NR-2"-...-MS4	0.5	5/16-18 UNF-2B	2.25	0.857	2.313	0.09	0.018	0
DSNB-N-2 1/2"-...-MS4	0.625	3/8-16 UNF-2B	2.375	1.25	1.938	0.201	0.008	0
DSNB-NR-2 1/2"-...-MS4	0.625	3/8-16 UNF-2B	2.375	1.25	2.313	0.201	0.008	0
DSNB-N-3 1/4"-...-MS4	0.75	1/2-13 UNF-2B	2.625	1.5	2.438	0.16	0.038	0
DSNB-NR-3 1/4"-...-MS4	0.75	1/2-13 UNF-2B	2.625	1.5	2.688	0.16	0.038	0
DSNB-N-4"-...-MS4	0.75	1/2-13 UNF-2B	2.625	2.063	2.438	0.15	0.005	0
DSNB-NR-4"-...-MS4	0.75	1/2-13 UNF-2B	2.625	2.063	2.688	0.15	0.005	0
DSNB-N-5"-...-MS4	1	5/8-11 UNF-2B	2.875	2.688	2.438	0.219	0.015	0
DSNB-NR-5"-...-MS4	1	5/8-11 UNF-2B	2.875	2.688	2.688	0.219	0.015	0
DSNB-N-6"-...-MS4	1.125	3/4-10 UNF-2B	3.125	3.25	2.813	–	–	–
DSNB-NR-6"-...-MS4	1.125	3/4-10 UNF-2B	3.125	3.25	3.063	–	–	–

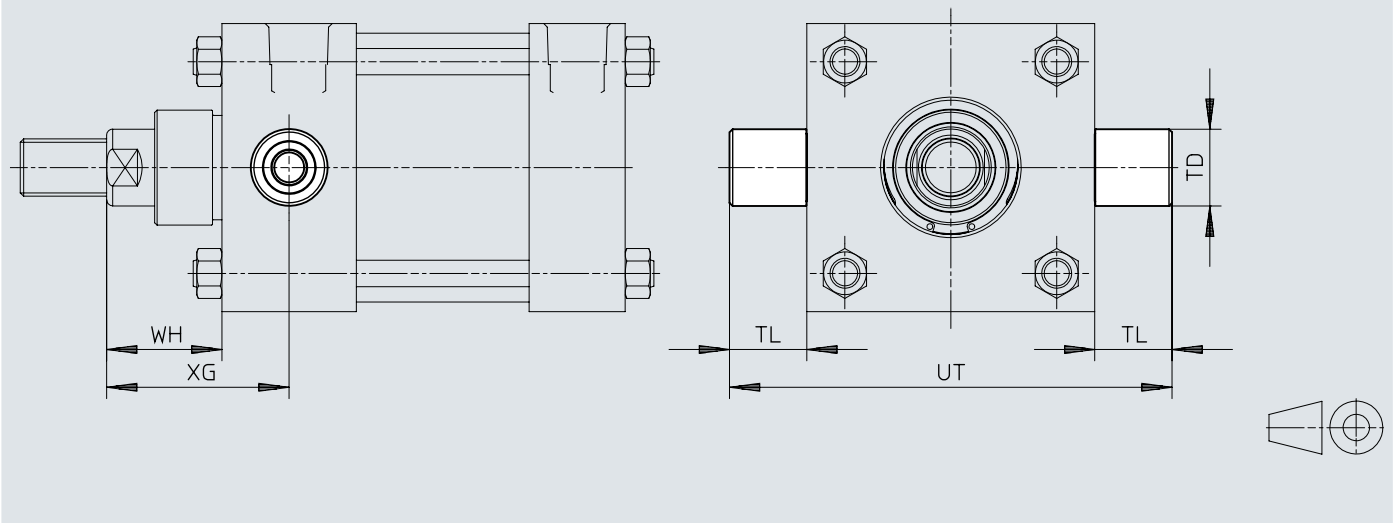
1) With damping [P] plus 0.214 inch

2) With noise reduction [SL] at 100 psi

3) With noise damping [SL]: reduction of stroke length

Dimensions

Dimensions – [MT1] Swivel mounting on bearing cap

[Download CAD data → www.festo.com](http://www.festo.com)


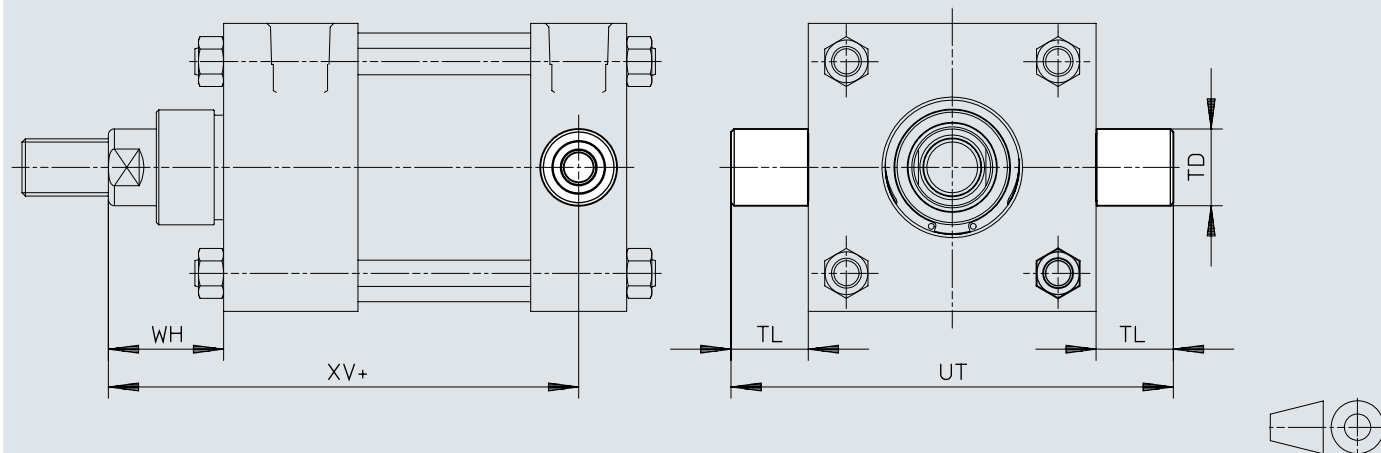
Ø	TD Ø	TL	UT	WH ¹⁾ ±0.08	XG ¹⁾	2)		
						0 psi	80 psi	100 psi
DSNB-N-1 1/2"-...-MT1	1	1	4	1	1.75	0.106	0	0
DSNB-NR-1 1/2"-...-MT1	1	1	4	1.375	2.13	0.106	0	0
DSNB-N-2"-...-MT1	1	1	4.5	1	1.75	0.09	0.018	0
DSNB-NR-2"-...-MT1	1	1	4.5	1.375	2.13	0.09	0.018	0
DSNB-N-2 1/2"-...-MT1	1	1	5	1	1.75	0.201	0.008	0
DSNB-NR-2 1/2"-...-MT1	1	1	5	1.375	2.13	0.201	0.008	0
DSNB-N-3 1/4"-...-MT1	1	1	5.75	1.375	2.25	0.16	0.038	0
DSNB-NR-3 1/4"-...-MT1	1	1	5.75	1.625	2.5	0.16	0.038	0
DSNB-N-4"-...-MT1	1	1	6.5	1.375	2.25	0.15	0.005	0
DSNB-NR-4"-...-MT1	1	1	6.5	1.625	2.5	0.15	0.005	0
DSNB-N-5"-...-MT1	1	1	7.5	1.375	2.25	0.219	0.015	0
DSNB-NR-5"-...-MT1	1	1	7.5	1.625	2.5	0.219	0.015	0
DSNB-N-6"-...-MT1	1.375	1.375	9.25	1.625	2.63	–	–	–
DSNB-NR-6"-...-MT1	1.375	1.375	9.25	1.875	2.88	–	–	–

1) With noise reduction [SL] at 100 psi

2) With noise damping [SL]: reduction of stroke length

Dimensions

Dimensions – [MT2] Swivel mounting on end cap

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[1] + = plus stroke length

ø	TD ø	TL	UT	WH ¹⁾ ±0.08	XV ¹⁾²⁾	3)		
						0 psi	80 psi	100 psi
DSNB-N-1 1/2"-...-MT2	1	1	4	1	4.13	0.106	0	0
DSNB-NR-1 1/2"-...-MT2	1	1	4	1.375	4.5	0.106	0	0
DSNB-N-2"-...-MT2	1	1	4.5	1	4.13	0.09	0.018	0
DSNB-NR-2"-...-MT2	1	1	4.5	1.375	4.5	0.09	0.018	0
DSNB-N-2 1/2"-...-MT2	1	1	5	1	4.25	0.201	0.008	0
DSNB-NR-2 1/2"-...-MT2	1	1	5	1.375	4.63	0.201	0.008	0
DSNB-N-3 1/4"-...-MT2	1	1	5.75	1.375	5	0.16	0.038	0
DSNB-NR-3 1/4"-...-MT2	1	1	5.75	1.625	5.25	0.16	0.038	0
DSNB-N-4"-...-MT2	1	1	6.5	1.375	5	0.15	0.005	0
DSNB-NR-4"-...-MT2	1	1	6.5	1.625	5.25	0.15	0.005	0
DSNB-N-5"-...-MT2	1	1	7.5	1.375	5.25	0.219	0.015	0
DSNB-NR-5"-...-MT2	1	1	7.5	1.625	5.5	0.219	0.015	0
DSNB-N-6"-...-MT2	1.375	1.375	9.25	1.625	5.88	–	–	–
DSNB-NR-6"-...-MT2	1.375	1.375	9.25	1.875	6.13	–	–	–

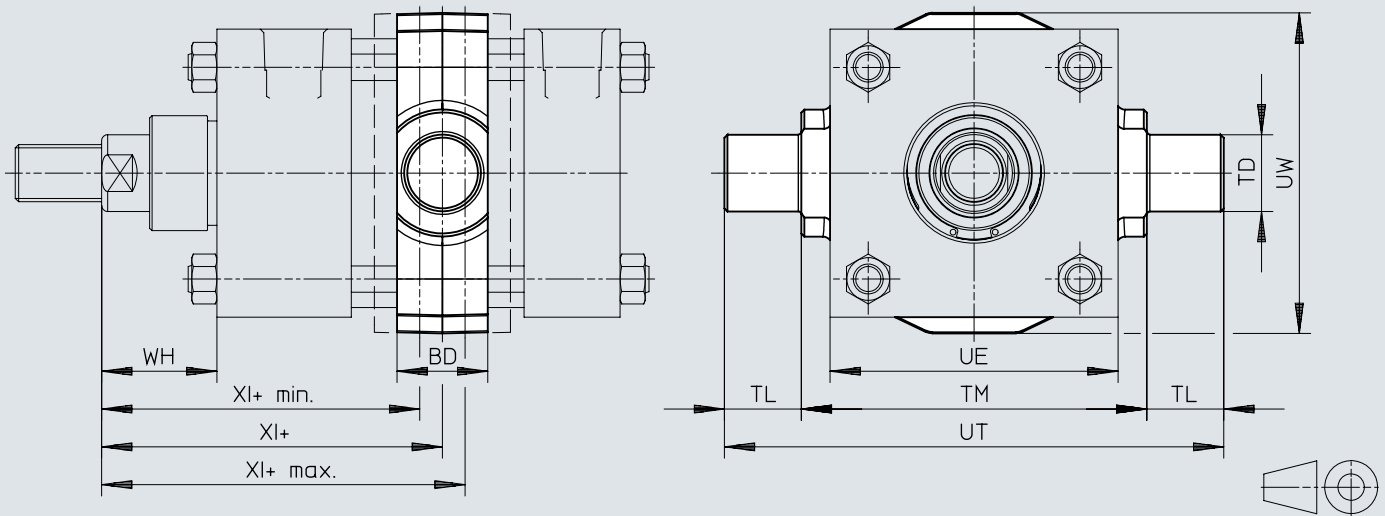
1) With noise reduction [SL] at 100 psi

2) With damping [P] plus 0.214 inch

3) With noise damping [SL]: reduction of stroke length

Dimensions

Dimensions – [MT4] Trunnion flange mounting position, positive-locking

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[1] + = plus 1/2x stroke length

ø	1)	BD	TD ø	TL	TM	UE	UT	UW	WH ²⁾ ±0.08	XI ³⁾ min.	XI ²⁾³⁾	XI ³⁾ max.	4)		
													0 psi	80 psi	100 psi
DSNB-N-1 1/2"-...-MT4	0	1.25	1	1	2.5	2.5	4.5	2.5	1	3.06	3.06	3.063	0.106	0	0
DSNB-NR-1 1/2"-...-MT4	0	1.25	1	1	2.5	2.5	4.5	2.5	1.375	3.44	3.44	3.438	0.106	0	0
DSNB-N-2"-...-MT4	0.25	1.5	1	1	3	3	5	3	1	3.19	2.94	2.938	0.09	0.018	0
DSNB-NR-2"-...-MT4	0.25	1.5	1	1	3	3	5	3	1.375	3.56	3.31	3.313	0.09	0.018	0
DSNB-N-2 1/2"-...-MT4	0.125	1.5	1	1	3.5	3.5	5.5	3.5	1	3.19	3.06	3.063	0.201	0.008	0
DSNB-NR-2 1/2"-...-MT4	0.125	1.5	1	1	3.5	3.5	5.5	3.5	1.375	3.56	3.44	3.438	0.201	0.008	0
DSNB-N-3 1/4"-...-MT4	0.563	2	1	1	4.5	4.5	6.5	4.25	1.375	4.03	3.47	3.469	0.16	0.038	0
DSNB-NR-3 1/4"-...-MT4	0.563	2	1	1	4.5	4.5	6.5	4.25	1.625	4.28	3.72	3.719	0.16	0.038	0
DSNB-N-4"-...-MT4	0.563	2	1	1	5.25	5.25	7.25	5	1.375	4.03	3.47	3.469	0.15	0.005	0
DSNB-NR-4"-...-MT4	0.563	2	1	1	5.25	5.25	7.25	5	1.625	4.28	3.72	3.719	0.15	0.005	0
DSNB-N-5"-...-MT4	0.313	2	1	1	6.25	6.25	8.25	6	1.375	4.03	3.72	3.719	0.219	0.015	0
DSNB-NR-5"-...-MT4	0.313	2	1	1	6.25	6.25	8.25	6	1.625	4.28	3.97	3.969	0.219	0.015	0
DSNB-N-6"-...-MT4	0.813	2.5	1.375	1.375	7.625	7.625	10.38	7	1.625	4.78	3.97	3.969	–	–	–
DSNB-NR-6"-...-MT4	0.813	2.5	1.375	1.375	7.625	7.625	10.38	7	1.875	5.03	5.03	4.219	–	–	–

1) min. stroke

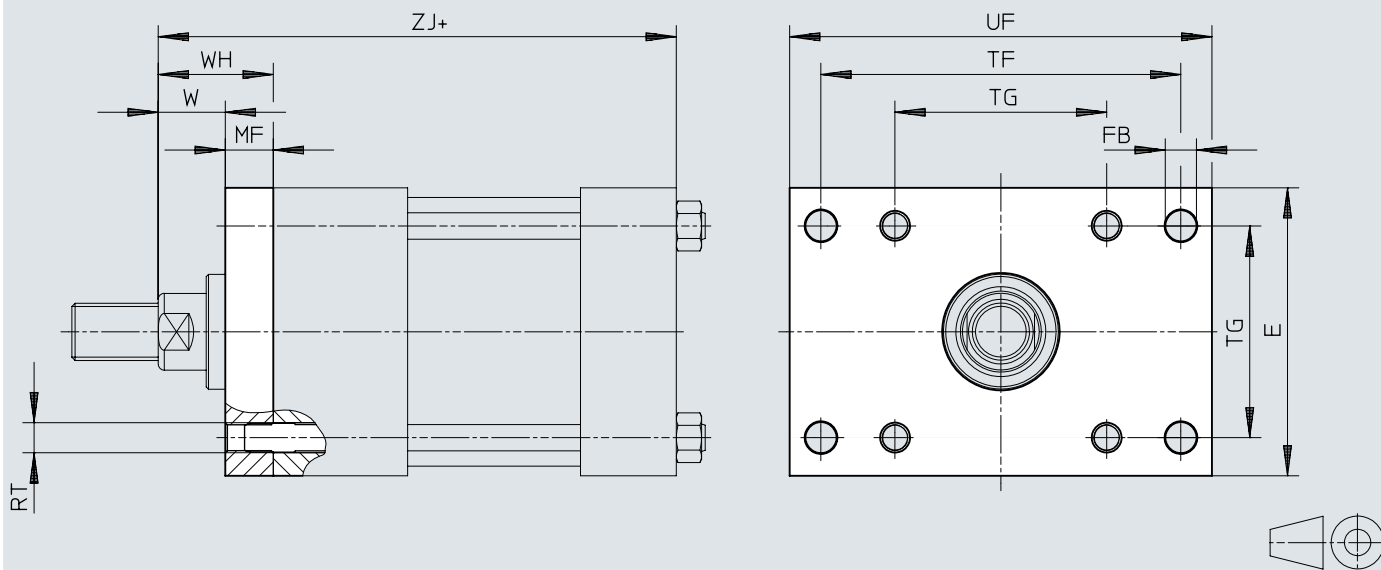
2) With noise reduction [SL] at 100 psi

3) With damping [P] plus 0.107 inch

4) With noise damping [SL]: reduction of stroke length

Dimensions

Dimensions – [MF1] Flange plate, bearing cap

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[1] + = plus stroke length

ø	E	FB ø	MF	RT	TF	TG	UF	W ¹⁾ ±0.08	WH	ZJ ¹⁾²⁾ ±0.05	3)		
											0 psi	80 psi	100 psi
DSNB-N-1 1/2"-...-MF1	2	1/4	0.375	1/4-28 UNF-2B	2.75	1.428	3.375	0.625	1	4.625	0.106	0	0
DSNB-NR-1 1/2"-...-MF1	2	1/4	0.375	1/4-28 UNF-2B	2.75	1.428	3.375	1	1.375	5	0.106	0	0
DSNB-N-2"-...-MF1	2.5	5/16	0.375	5/16-24 UNF-2B	3.375	1.838	4.125	0.625	1	4.625	0.09	0.018	0
DSNB-NR-2"-...-MF1	2.5	5/16	0.375	5/16-24 UNF-2B	3.375	1.838	4.125	1	1.375	5	0.09	0.018	0
DSNB-N-2 1/2"-...-MF1	3	5/16	0.375	5/16-24 UNF-2B	3.875	2.192	4.625	0.625	1	4.75	0.201	0.008	0
DSNB-NR-2 1/2"-...-MF1	3	5/16	0.375	5/16-24 UNF-2B	3.875	2.192	4.625	1	1.375	5.125	0.201	0.008	0
DSNB-N-3 1/4"-...-MF1	3.75	3/8	0.625	3/8-24 UNF-2B	4.688	2.758	5.5	0.75	1.375	5.625	0.16	0.038	0
DSNB-NR-3 1/4"-...-MF1	3.75	3/8	0.625	3/8-24 UNF-2B	4.688	2.758	5.5	1	1.625	5.875	0.16	0.038	0
DSNB-N-4"-...-MF1	4.5	3/8	0.625	3/8-24 UNF-2B	5.438	3.323	6.25	0.75	1.375	5.625	0.15	0.005	0
DSNB-NR-4"-...-MF1	4.5	3/8	0.625	3/8-24 UNF-2B	5.438	3.323	6.25	1	1.625	5.875	0.15	0.005	0
DSNB-N-5"-...-MF1	5.5	1/2	0.625	1/2-20 UNF-2B	6.625	4.101	7.625	0.75	1.375	5.875	0.219	0.015	0
DSNB-NR-5"-...-MF1	5.5	1/2	0.625	1/2-20 UNF-2B	6.625	4.101	7.625	1	1.625	6.125	0.219	0.015	0
DSNB-N-6"-...-MF1	6.5	1/2	0.75	1/2-20 UNF-2B	7.625	4.879	8.625	0.875	1.625	6.625	–	–	–
DSNB-NR-6"-...-MF1	6.5	1/2	0.75	1/2-20 UNF-2B	7.625	4.879	8.625	1.125	1.875	6.875	–	–	–

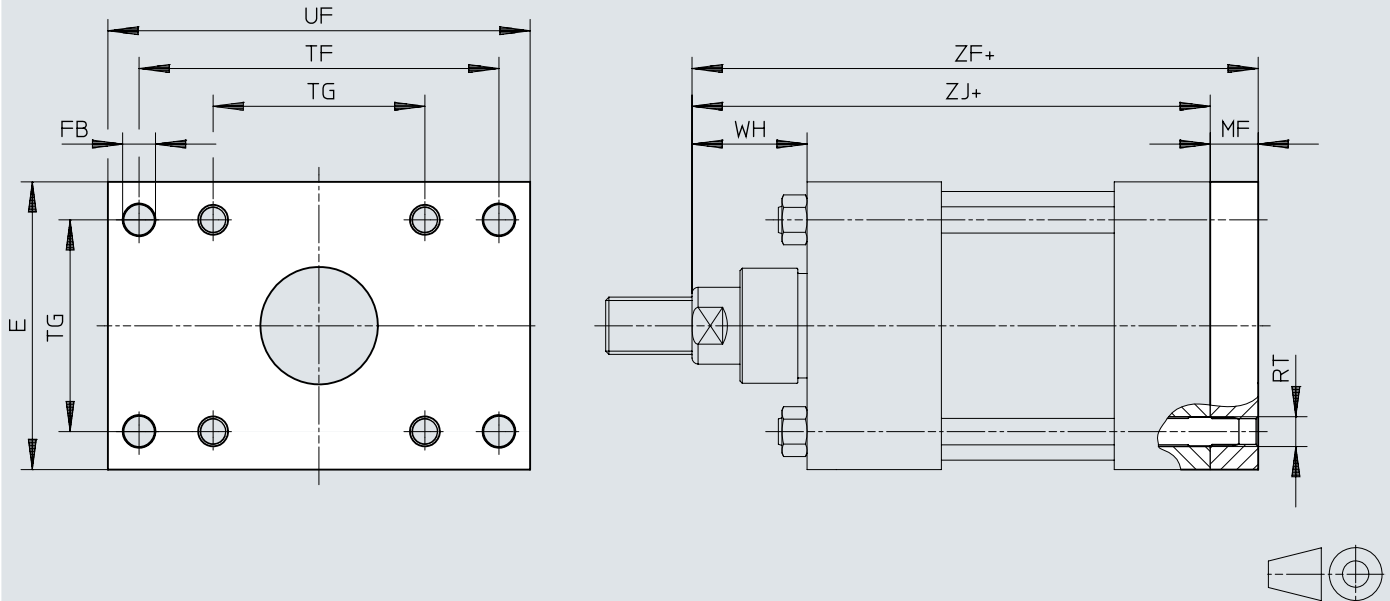
1) With noise reduction [SL] at 100 psi

2) With damping [P] plus 0.214 inch

3) With noise damping [SL]: reduction of stroke length

Dimensions

Dimensions – [MF2] Flange plate end cap

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[1] + = plus stroke length

Ø	E	FB Ø	MF	RT	TF	TG	UF	WH	ZF ¹⁾²⁾ ±0.05	ZJ ¹⁾²⁾ ±0.05	3)		
											0 psi	80 psi	100 psi
DSNB-N-1 1/2"-...-MF2	2	1/4	0.375	1/4-28 UNF-2B	2.75	1.428	3.375	1	5	4.625	0.106	0	0
DSNB-NR-1 1/2"-...-MF2	2	1/4	0.375	1/4-28 UNF-2B	2.75	1.428	3.375	1.375	5.375	5	0.106	0	0
DSNB-N-2"-...-MF2	2.5	5/16	0.375	5/16-24 UNF-2B	3.375	1.838	4.125	1	5	4.625	0.09	0.018	0
DSNB-NR-2"-...-MF2	2.5	5/16	0.375	5/16-24 UNF-2B	3.375	1.838	4.125	1.375	5.375	5	0.09	0.018	0
DSNB-N-2 1/2"-...-MF2	3	5/16	0.375	5/16-24 UNF-2B	3.875	2.192	4.625	1	5.125	4.75	0.201	0.008	0
DSNB-NR-2 1/2"-...-MF2	3	5/16	0.375	5/16-24 UNF-2B	3.875	2.192	4.625	1.375	5.5	5.125	0.201	0.008	0
DSNB-N-3 1/4"-...-MF2	3.75	3/8	0.625	3/8-24 UNF-2B	4.688	2.758	5.5	1.375	6.25	5.625	0.16	0.038	0
DSNB-NR-3 1/4"-...-MF2	3.75	3/8	0.625	3/8-24 UNF-2B	4.688	2.758	5.5	1.625	6.5	5.875	0.16	0.038	0
DSNB-N-4"-...-MF2	4.5	3/8	0.625	3/8-24 UNF-2B	5.438	3.323	6.25	1.375	6.25	5.625	0.15	0.005	0
DSNB-NR-4"-...-MF2	4.5	3/8	0.625	3/8-24 UNF-2B	5.438	3.323	6.25	1.625	6.5	5.875	0.15	0.005	0
DSNB-N-5"-...-MF2	5.5	1/2	0.625	1/2-20 UNF-2B	6.625	4.101	7.625	1.375	6.5	5.875	0.219	0.015	0
DSNB-NR-5"-...-MF2	5.5	1/2	0.625	1/2-20 UNF-2B	6.625	4.101	7.625	1.625	6.75	6.125	0.219	0.015	0
DSNB-N-6"-...-MF2	6.5	1/2	0.75	1/2-20 UNF-2B	7.625	4.879	8.625	1.625	7.375	6.625	–	–	–
DSNB-NR-6"-...-MF2	6.5	1/2	0.75	1/2-20 UNF-2B	7.625	4.879	8.625	1.875	7.625	6.875	–	–	–

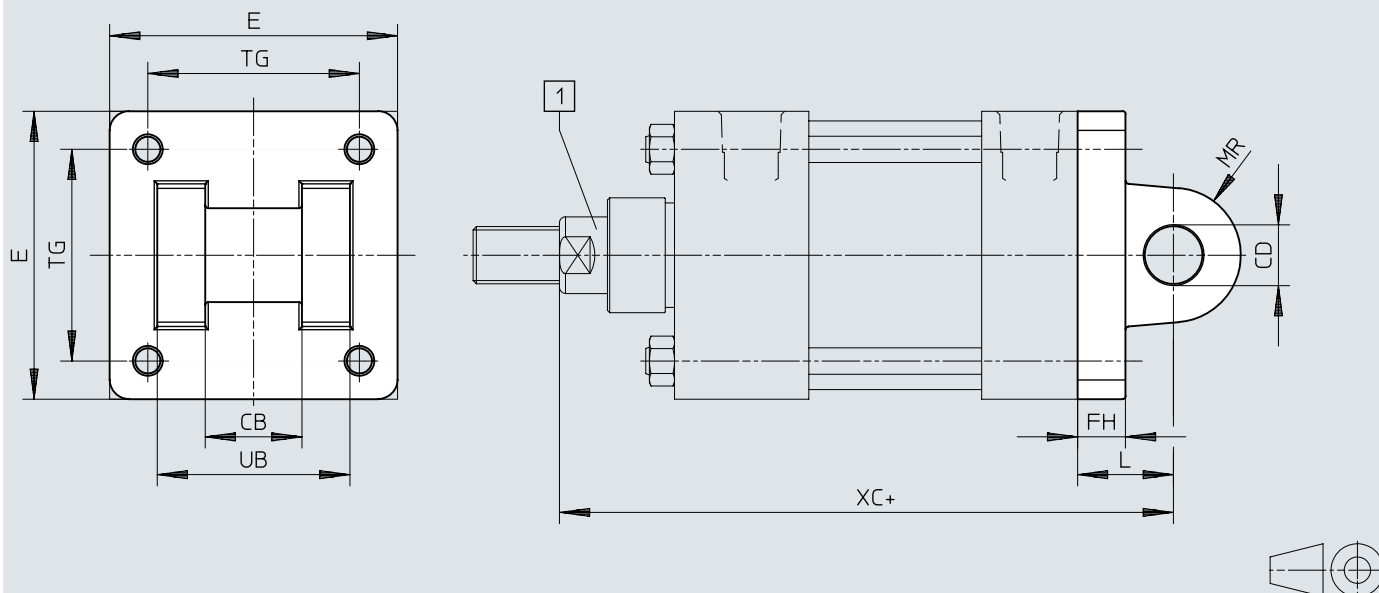
1) With noise reduction [SL] at 100 psi

2) With damping [P] plus 0.214 inch

3) With noise damping [SL]: reduction of stroke length

Dimensions

Dimensions – [MP1] Swivel bearing

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[1] += plus stroke length

ø	[1] ø	CB	CD ø	E	FH	L	MR	TG	UB	XC ¹⁾²⁾ ±0.06	3)		
											0 psi	80 psi	100 psi
DSNB-N-1 1/2"-...-MP1	0.625	0.75	0.5	2	0.375	0.75	1	1.428	1.75	5.375	0.106	0	0
DSNB-NR-1 1/2"-...-MP1	1	0.75	0.5	2	0.375	0.75	1	1.428	1.75	5.75	0.106	0	0
DSNB-N-2"-...-MP1	0.625	0.75	0.5	2.5	0.375	0.75	1	1.838	1.75	5.375	0.09	0.018	0
DSNB-NR-2"-...-MP1	1	0.75	0.5	2.5	0.375	0.75	1	1.838	1.75	5.75	0.09	0.018	0
DSNB-N-2 1/2"-...-MP1	0.625	0.75	0.5	3	0.375	0.75	1	2.192	1.75	5.5	0.201	0.008	0
DSNB-NR-2 1/2"-...-MP1	1	0.75	0.5	3	0.375	0.75	1	2.192	1.75	5.875	0.201	0.008	0
DSNB-N-3 1/4"-...-MP1	1	1.25	0.75	3.75	0.625	1.25	1.5	2.758	2.5	6.875	0.16	0.038	0
DSNB-NR-3 1/4"-...-MP1	1.375	1.25	0.75	3.75	0.625	1.25	1.5	2.758	2.5	7.125	0.16	0.038	0
DSNB-N-4"-...-MP1	1	1.25	0.75	4.5	0.625	1.25	1.5	3.323	2.5	6.875	0.15	0.005	0
DSNB-NR-4"-...-MP1	1.375	1.25	0.75	4.5	0.625	1.25	1.5	3.323	2.5	7.125	0.15	0.005	0
DSNB-N-5"-...-MP1	1	1.25	0.75	5.5	0.625	1.25	1.5	4.101	2.5	7.125	0.219	0.015	0
DSNB-NR-5"-...-MP1	1.375	1.25	0.75	5.5	0.625	1.25	1.5	4.101	2.5	7.375	0.219	0.015	0
DSNB-N-6"-...-MP1	1.375	1.5	1	6.5	0.75	1.5	2	4.879	3	8.125	–	–	–
DSNB-NR-6"-...-MP1	1.75	1.5	1	6.5	0.75	1.5	2	4.879	3	8.375	–	–	–

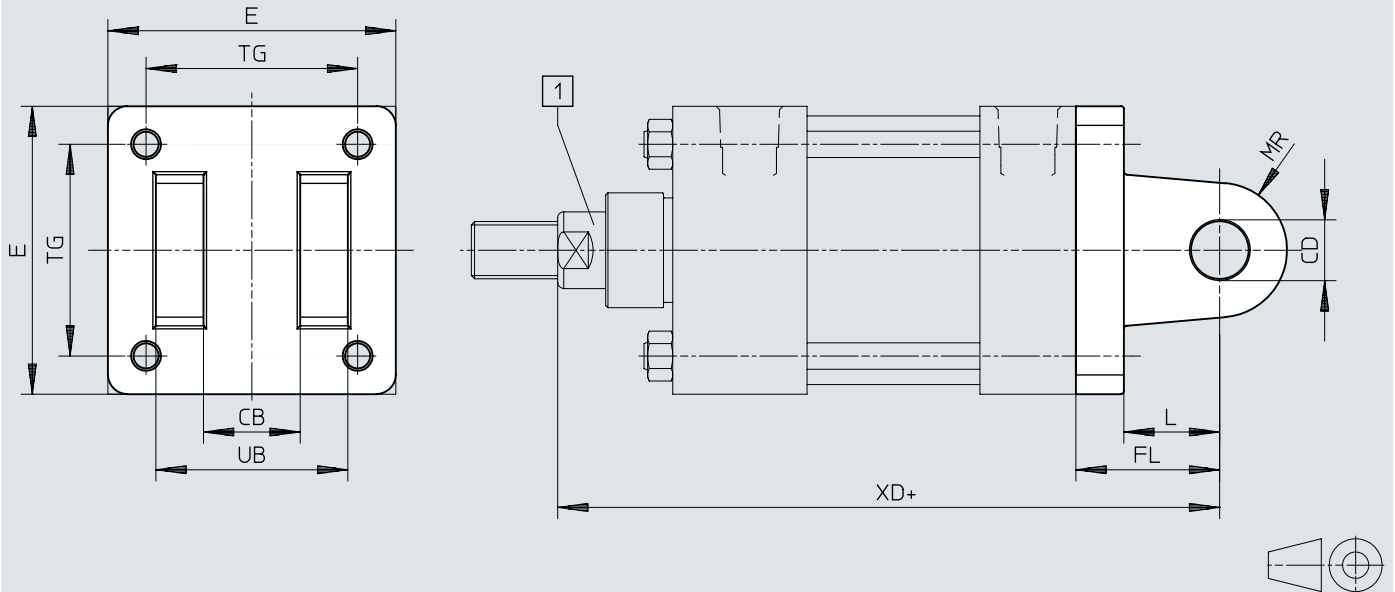
1) With noise reduction [SL] at 100 psi

2) With damping [P] plus 0.214 inch

3) With noise damping [SL]: reduction of stroke length

Dimensions

Dimensions – [MP2] Swivel mounting

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[1] + = plus stroke length

Ø	[1] Ø	CB	CD Ø	E	FL	L	MR	TG	UB	XD ¹⁾²⁾ ±0.06	3)		
											0 psi	80 psi	100 psi
DSNB-N-1 1/2"-...-MP2	0.625	0.75	0.5	2	1.125	0.75	1	1.428	1.75	5.75	0.106	0	0
DSNB-NR-1 1/2"-...-MP2	1	0.75	0.5	2	1.125	0.75	1	1.428	1.75	6.125	0.106	0	0
DSNB-N-2"-...-MP2	0.625	0.75	0.5	2.5	1.125	0.75	1	1.838	1.75	5.75	0.09	0.018	0
DSNB-NR-2"-...-MP2	1	0.75	0.5	2.5	1.125	0.75	1	1.838	1.75	6.125	0.09	0.018	0
DSNB-N-2 1/2"-...-MP2	0.625	0.75	0.5	3	1.125	0.75	1	2.192	1.75	5.875	0.201	0.008	0
DSNB-NR-2 1/2"-...-MP2	1	0.75	0.5	3	1.125	0.75	1	2.192	1.75	6.25	0.201	0.008	0
DSNB-N-3 1/4"-...-MP2	1	1.25	0.75	3.75	1.875	1.25	1.5	2.758	2.5	7.5	0.16	0.038	0
DSNB-NR-3 1/4"-...-MP2	1.375	1.25	0.75	3.75	1.875	1.25	1.5	2.758	2.5	7.75	0.16	0.038	0
DSNB-N-4"-...-MP2	1	1.25	0.75	4.5	1.875	1.25	1.5	3.323	2.5	7.5	0.15	0.005	0
DSNB-NR-4"-...-MP2	1.375	1.25	0.75	4.5	1.875	1.25	1.5	3.323	2.5	7.75	0.15	0.005	0
DSNB-N-5"-...-MP2	1	1.25	0.75	5.5	1.875	1.25	1.5	4.101	2.5	7.75	0.219	0.015	0
DSNB-NR-5"-...-MP2	1.375	1.25	0.75	5.5	1.875	1.25	1.5	4.101	2.5	8	0.219	0.015	0
DSNB-N-6"-...-MP2	1.375	1.5	1	6.5	2.25	1.5	2	4.879	3	8.875	–	–	–
DSNB-NR-6"-...-MP2	1.75	1.5	1	6.5	2.25	1.5	2	4.879	3	9.125	–	–	–

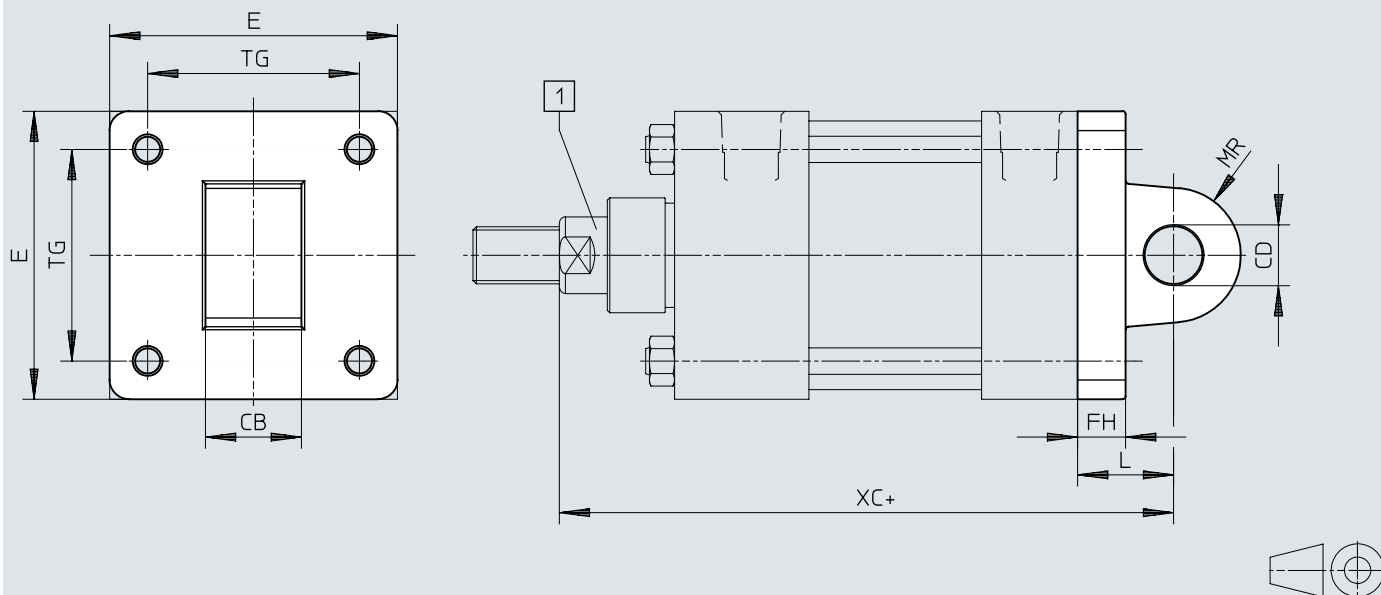
1) With noise reduction [SL] at 100 psi

2) With damping [P] plus 0.214 inch

3) With noise damping [SL]: reduction of stroke length

Dimensions

Dimensions – [MP3] Swiveling rod eye mounting in the end cap

Download CAD data → www.festo.com

[1] + = plus stroke length

ø	[1] ø	CB	CD ø	E	FH	L	MR	TG	XC ¹⁾²⁾ ±0.06	3)		
										0 psi	80 psi	100 psi
DSNB-N-1 1/2"-...-MP3	0.625	0.75	0.5	2	0.375	0.75	1	1.428	5.375	0.106	0	0
DSNB-NR-1 1/2"-...-MP3	1	0.75	0.5	2	0.375	0.75	1	1.428	5.75	0.106	0	0
DSNB-N-2"-...-MP3	0.625	0.75	0.5	2.5	0.375	0.75	1	1.838	5.375	0.09	0.018	0
DSNB-NR-2"-...-MP3	1	0.75	0.5	2.5	0.375	0.75	1	1.838	5.75	0.09	0.018	0
DSNB-N-2 1/2"-...-MP3	0.625	0.75	0.5	3	0.375	0.75	1	2.192	5.5	0.201	0.008	0
DSNB-NR-2 1/2"-...-MP3	1	0.75	0.5	3	0.375	0.75	1	2.192	5.875	0.201	0.008	0
DSNB-N-3 1/4"-...-MP3	1	1.25	0.75	3.75	0.625	1.25	1.5	2.758	6.875	0.16	0.038	0
DSNB-NR-3 1/4"-...-MP3	1.375	1.25	0.75	3.75	0.625	1.25	1.5	2.758	7.125	0.16	0.038	0
DSNB-N-4"-...-MP3	1	1.25	0.75	4.5	0.625	1.25	1.5	3.323	6.875	0.15	0.005	0
DSNB-NR-4"-...-MP3	1.375	1.25	0.75	4.5	0.625	1.25	1.5	3.323	7.125	0.15	0.005	0
DSNB-N-5"-...-MP3	1	1.25	0.75	5.5	0.625	1.25	1.5	4.101	7.125	0.219	0.015	0
DSNB-NR-5"-...-MP3	1.375	1.25	0.75	5.5	0.625	1.25	1.5	4.101	7.375	0.219	0.015	0
DSNB-N-6"-...-MP3	1.375	1.5	1	6.5	0.75	1.5	2	4.879	8.125	–	–	–
DSNB-NR-6"-...-MP3	1.75	1.5	1	6.5	0.75	1.5	2	4.879	8.375	–	–	–

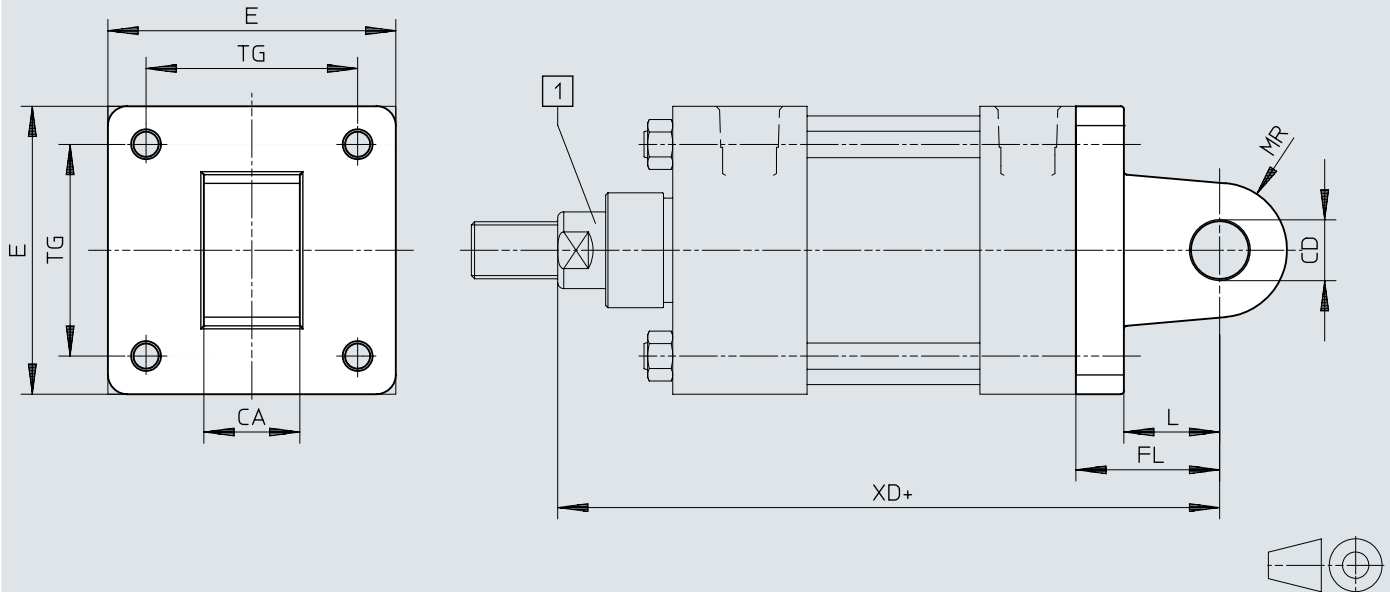
1) With noise reduction [SL] at 100 psi

2) With damping [P] plus 0.214 inch

3) With noise damping [SL]: reduction of stroke length

Dimensions

Dimensions – [MP4] Swiveling rod eye mounting

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[1] + = plus stroke length

ø	[1] ø	CA	CD ø	E	FL	L	MR	TG	XD ¹⁾²⁾ ±0.06	3)		
										0 psi	80 psi	100 psi
DSNB-N-1 1/2"-...-MP4	0.625	0.75	0.5	2	1.125	0.75	1	1.428	5.75	0.106	0	0
DSNB-NR-1 1/2"-...-MP4	1	0.75	0.5	2	1.125	0.75	1	1.428	6.125	0.106	0	0
DSNB-N-2"-...-MP4	0.625	0.75	0.5	2.5	1.125	0.75	1	1.838	5.75	0.09	0.018	0
DSNB-NR-2"-...-MP4	1	0.75	0.5	2.5	1.125	0.75	1	1.838	6.125	0.09	0.018	0
DSNB-N-2 1/2"-...-MP4	0.625	0.75	0.5	3	1.125	0.75	1	2.192	5.875	0.201	0.008	0
DSNB-NR-2 1/2"-...-MP4	1	0.75	0.5	3	1.125	0.75	1	2.192	6.25	0.201	0.008	0
DSNB-N-3 1/4"-...-MP4	1	1.25	0.75	3.75	1.875	1.25	1.5	2.758	7.5	0.16	0.038	0
DSNB-NR-3 1/4"-...-MP4	1.375	1.25	0.75	3.75	1.875	1.25	1.5	2.758	7.75	0.16	0.038	0
DSNB-N-4"-...-MP4	1	1.25	0.75	4.5	1.875	1.25	1.5	3.323	7.5	0.15	0.005	0
DSNB-NR-4"-...-MP4	1.375	1.25	0.75	4.5	1.875	1.25	1.5	3.323	7.75	0.15	0.005	0
DSNB-N-5"-...-MP4	1	1.25	0.75	5.5	1.875	1.25	1.5	4.101	7.75	0.219	0.015	0
DSNB-NR-5"-...-MP4	1.375	1.25	0.75	5.5	1.875	1.25	1.5	4.101	8	0.219	0.015	0
DSNB-N-6"-...-MP4	1.375	1.5	1	6.5	2.25	1.5	2	4.879	8.875	–	–	–
DSNB-NR-6"-...-MP4	1.75	1.5	1	6.5	2.25	1.5	2	4.879	9.125	–	–	–

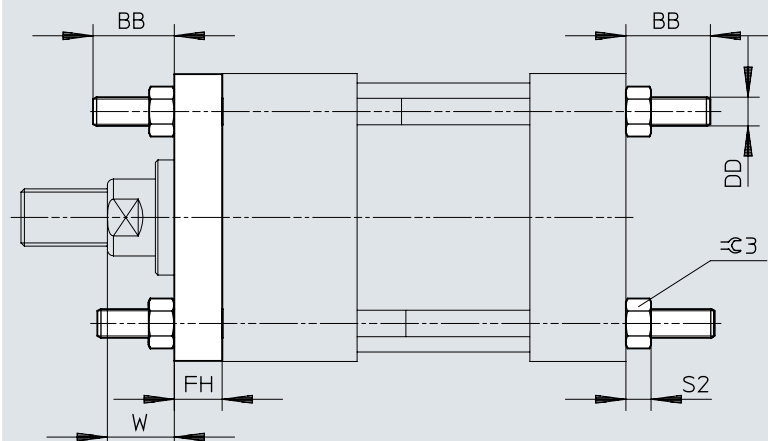
1) With noise reduction [SL] at 100 psi

2) With damping [P] plus 0.214 inch

3) With noise damping [SL]: reduction of stroke length

Dimensions

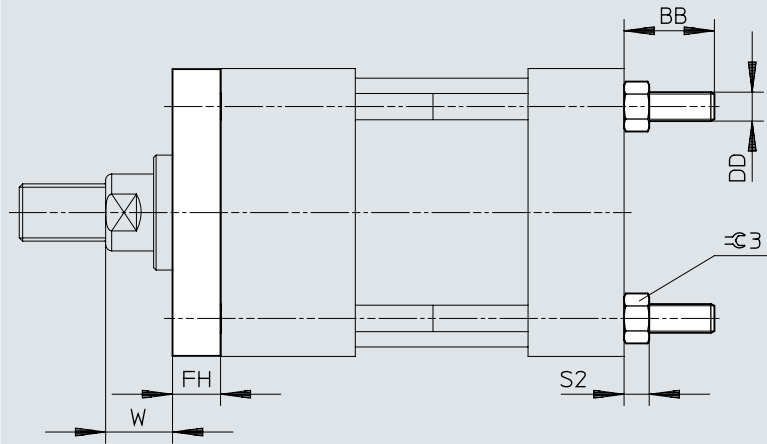
Dimensions – [MX1] Threaded rods at both ends

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ø	BB	DD ø	FH	S2	W	⊗ 3
DSNB-N-1 1/2"-...-MX1	1	1/4-28 UNF-2A	0.375	0.218	0.625	0.438
DSNB-NR-1 1/2"-...-MX1	1	1/4-28 UNF-2A	0.375	0.218	1	0.438
DSNB-N-2"-...-MX1	1.125	5/6-24 UNF-2A	0.375	0.265	0.625	0.5
DSNB-NR-2"-...-MX1	1.125	5/6-24 UNF-2A	0.375	0.265	1	0.5
DSNB-N-2 1/2"-...-MX1	1.125	5/6-24 UNF-2A	0.375	0.265	0.625	0.5
DSNB-NR-2 1/2"-...-MX1	1.125	5/6-24 UNF-2A	0.375	0.265	1	0.5
DSNB-N-3 1/4"-...-MX1	1.375	3/8-24 UNF-2A	0.625	0.328	0.75	0.563
DSNB-NR-3 1/4"-...-MX1	1.375	3/8-24 UNF-2A	0.625	0.328	1	0.563
DSNB-N-4"-...-MX1	1.375	3/8-24 UNF-2A	0.625	0.328	0.75	0.563
DSNB-NR-4"-...-MX1	1.375	3/8-24 UNF-2A	0.625	0.328	1	0.563
DSNB-N-5"-...-MX1	1.813	1/2-20 UNF-2A	0.625	0.438	0.75	0.75
DSNB-NR-5"-...-MX1	1.813	1/2-20 UNF-2A	0.625	0.438	1	0.75
DSNB-N-6"-...-MX1	1.813	1/2-20 UNF-2A	0.75	0.438	0.875	0.75
DSNB-NR-6"-...-MX1	1.813	1/2-20 UNF-2A	0.75	0.438	1.125	0.75

Dimensions

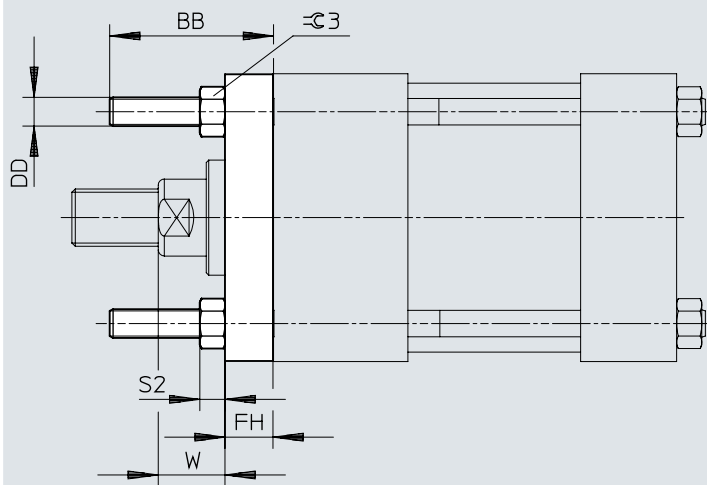
Dimensions – [MX2] Threaded rods, end cap

Download CAD data → www.festo.com

∅	BB	DD ∅	FH	S2	W	±0.3
DSNB-N-1 1/2"-...-MX2	1	1/4-28 UNF-2A	0.375	0.218	0.625	0.438
DSNB-NR-1 1/2"-...-MX2	1	1/4-28 UNF-2A	0.375	0.218	1	0.438
DSNB-N-2"-...-MX2	1.125	5/6-24 UNF-2A	0.375	0.265	0.625	0.5
DSNB-NR-2"-...-MX2	1.125	5/6-24 UNF-2A	0.375	0.265	1	0.5
DSNB-N-2 1/2"-...-MX2	1.125	5/6-24 UNF-2A	0.375	0.265	0.625	0.5
DSNB-NR-2 1/2"-...-MX2	1.125	5/6-24 UNF-2A	0.375	0.265	1	0.5
DSNB-N-3 1/4"-...-MX2	1.375	3/8-24 UNF-2A	0.625	0.328	0.75	0.563
DSNB-NR-3 1/4"-...-MX2	1.375	3/8-24 UNF-2A	0.625	0.328	1	0.563
DSNB-N-4"-...-MX2	1.375	3/8-24 UNF-2A	0.625	0.328	0.75	0.563
DSNB-NR-4"-...-MX2	1.375	3/8-24 UNF-2A	0.625	0.328	1	0.563
DSNB-N-5"-...-MX2	1.813	1/2-20 UNF-2A	0.625	0.438	0.75	0.75
DSNB-NR-5"-...-MX2	1.813	1/2-20 UNF-2A	0.625	0.438	1	0.75
DSNB-N-6"-...-MX2	1.813	1/2-20 UNF-2A	0.75	0.438	0.875	0.75
DSNB-NR-6"-...-MX2	1.813	1/2-20 UNF-2A	0.75	0.438	1.125	0.75

Dimensions

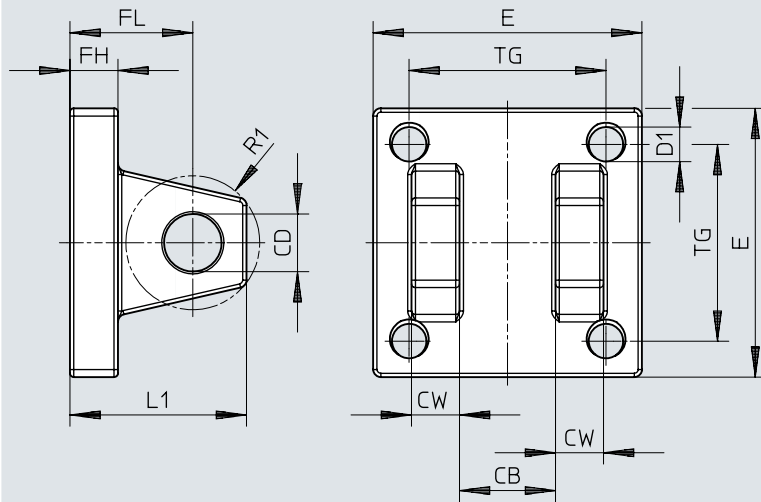
Dimensions – [MX3] Threaded rods, bearing cap

Download CAD data → www.festo.com

∅	BB	DD ∅	FH	S2	W	±0.3
DSNB-N-1 1/2"-...-MX3	1	1/4-28 UNF-2A	0.375	0.218	0.625	0.438
DSNB-NR-1 1/2"-...-MX3	1	1/4-28 UNF-2A	0.375	0.218	1	0.438
DSNB-N-2"-...-MX3	1.125	5/16-24 UNF-2A	0.375	0.265	0.625	0.5
DSNB-NR-2"-...-MX3	1.125	5/16-24 UNF-2A	0.375	0.265	1	0.5
DSNB-N-2 1/2"-...-MX3	1.125	5/16-24 UNF-2A	0.375	0.265	0.625	0.5
DSNB-NR-2 1/2"-...-MX3	1.125	5/16-24 UNF-2A	0.375	0.265	1	0.5
DSNB-N-3 1/4"-...-MX3	1.375	3/8-24 UNF-2A	0.625	0.328	0.75	0.563
DSNB-NR-3 1/4"-...-MX3	1.375	3/8-24 UNF-2A	0.625	0.328	1	0.563
DSNB-N-4"-...-MX3	1.375	3/8-24 UNF-2A	0.625	0.328	0.75	0.563
DSNB-NR-4"-...-MX3	1.375	3/8-24 UNF-2A	0.625	0.328	1	0.563
DSNB-N-5"-...-MX3	1.813	1/2-20 UNF-2A	0.625	0.438	0.75	0.75
DSNB-NR-5"-...-MX3	1.813	1/2-20 UNF-2A	0.625	0.438	1	0.75
DSNB-N-6"-...-MX3	1.813	1/2-20 UNF-2A	0.75	0.438	0.875	0.75
DSNB-NR-6"-...-MX3	1.813	1/2-20 UNF-2A	0.75	0.438	1.125	0.75

Dimensions

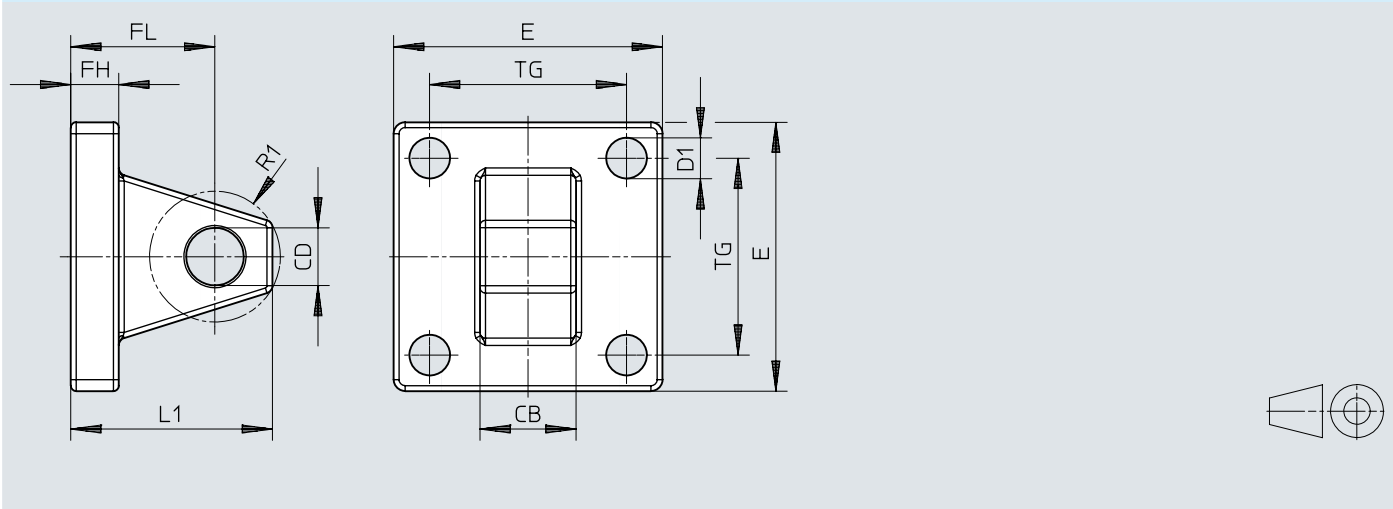
Dimensions – Swivel mounting DAMC-C7-...-D

 Download CAD data → www.festo.com


DSNB	DAMC-C7-...-D	CB	CD Ø	CW	D1	E	FH	FL	L1	R1	TG
1 1/2"	DAMC-C7-1 1/2"-D	0.75	0.5	0.5	3/8-24 UNF-2B	2.5	0.375	1.125	0.625	0.5	1.625
3 1/4"	DAMC-C7-3 1/4"-D	1.25	0.75	0.625	1/2-20 UNF-2B	3.5	0.625	1.875	2.625	1.063	2.563
6"	DAMC-C7-6"-D	1.5	1	0.75	5/8-18 UNF-2B	4.5	0.75	2.25	3.25	1.25	3.25

Dimensions

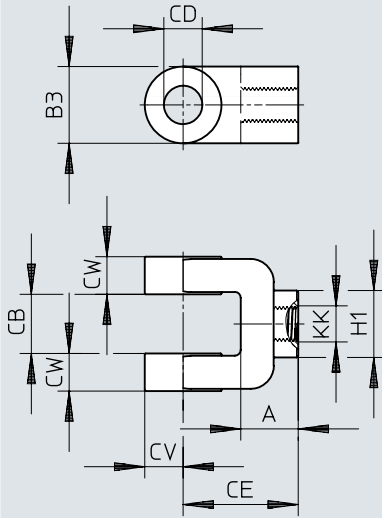
Dimensions – Swivel mounting DAMC-C7-...-C Download CAD data → www.festo.com



DSNB	DAMC-C7-...-C	CB	CD ø	D1	E	FH	FL	L1	R1	TG
1 1/2"	DAMC-C7-1 1/2"-C	0.75	0.5	0.406	2.5	0.375	1.125	1.625	0.75	1.625
3 1/4"	DAMC-C7-3 1/4"-C	1.25	0.75	0.531	3.5	0.625	1.875	2.625	1.25	2.563
6"	DAMC-C7-6"-C	1.5	1	0.656	4.5	0.75	2.25	3.25	1.5	3.25

Dimensions

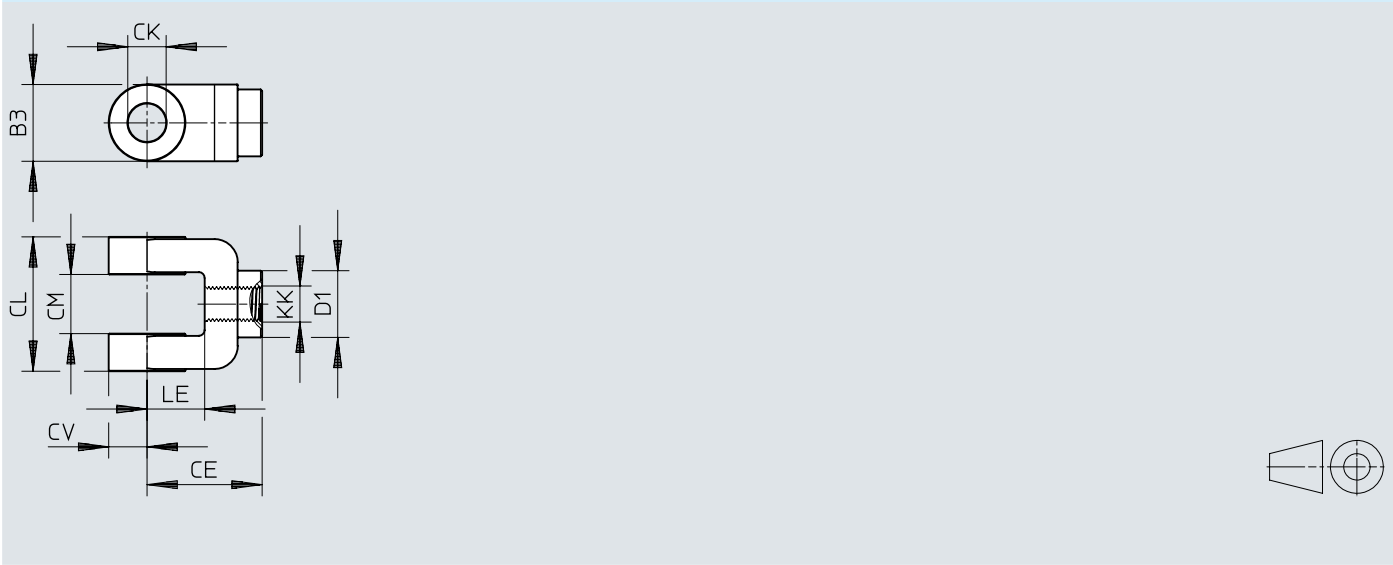
Dimensions – Rod clevis DARC-C7-U...

Download CAD data → www.festo.com

DSNB	DARC-C7-U...	A	B3	CB	CD ø	CE	CV	CW	H1	KK
1 1/2"	DARC-C7-U12	0.75	1	0.75	0.5	1.5	0.5	0.5	1	1/2-20 UNF-2B
2"										
2 1/2"										
1 1/2"	DARC-C7-U78	1.625	2	1.5	1	3.125	1	0.75	1.5	7/8-14 UNF-2B
2"										
2 1/2"										
3 1/4"										
4"										
5"	DARC-C7-U1	1.625	2	1.5	1	3.125	1	0.75	1.5	1-14 UNS-2B
4"										
6"										
3 1/4"	DARC-C7-U114	2	2.75	2	1.375	4.125	1.375	1	2	1 1/4-12 UNF-2B
4"										
5"										
6"										
6"	DARC-C7-U112	2.25	3.5	2.5	1.75	4.5	1.75	1.25	2.375	1 1/2-12 UNF-2B

Dimensions

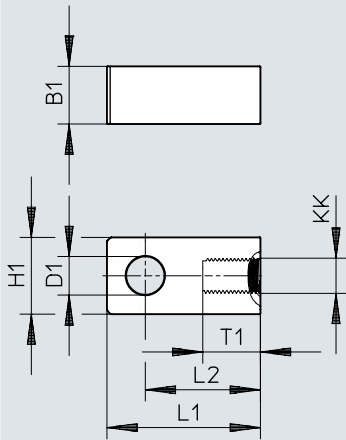
Dimensions – Rod clevis DARC-C7-U... Download CAD data → www.festo.com



DSNB	DARC-C7-U...	B3	CE	CK ø	CL	CM	CV	D1 ø	KK	LE
1 1/2"	DARC-C7-U716	1	1.5	0.5	1.75	0.77	0.5	0.87	7/16-20 UNF-2B	0.75
2"										
2 1/2"										
1 1/2"	DARC-C7-U34	1.5	2.38	0.75	2.5	1.27	0.75	1.34	3/4-16 UNF-2B	1.25
2"										
2 1/2"										
3 1/4"										
4"										
5"										

Dimensions

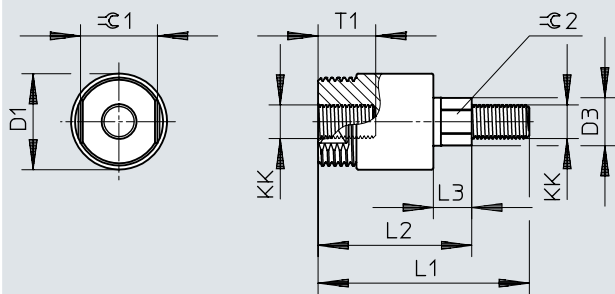
Dimensions – Rod eye DARC-C7B-U...

Download CAD data → www.festo.com

DSNB	DARC-C7B-U...	B1	D1 Ø	H1	KK	L1	L2	T1
1 1/2"	DARC-C7B-U716	0.75	0.5	1	7/16-20 UNF-2B	2	1.5	0.75
2"								
2 1/2"								
1 1/2"	DARC-C7B-U34	1.25	0.75	1.5	3/4-16 UNF-2B	2.81	2.06	1.13
2"								
2 1/4"								
3 1/4"								
4"								
5"	DARC-C7B-U12	0.75	0.5	1	1/2-20 UNF-2B	2	1.5	0.75
1 1/2"								
2"								
2 1/2"	DARC-C7B-U1	1.5	1	1	1-14 UNS-2B	3.813	2.813	1.625
3 1/4"								
4"								
5"								
6"	DARC-C7B-U114	2	1.375	2.75	1 1/4-12 UNF-2B	4.813	3.438	2
3 1/4"								
4"								
5"								
6"	DARC-C7B-U112	2.5	1.75	3.5	1 1/2-12 UNF-2B	5.75	4	2.25

Dimensions

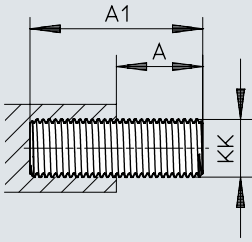
Dimensions – Self-aligning rod coupler DARP-C7-U...-F

Download CAD data → www.festo.com

DSNB	DARP-C7-U...-F	D1 ø	D3 ø	KK	L1	L2	L3	T1	C1	C2
1 1/2"	DARP-C7-U716-F	1.25	0.63	7/16-20 UNF-2B	2.75	2	0.5	0.75	1	0.5
2"										
2 1/2"										
1 1/2"	DARP-C7-U34-F	1.75	0.97	3/4-16 UNF-2B	3.48	2.35	0.5	1.13	1.5	0.81
2"										
2 1/2"										
3 1/4"										
4"										
5"	DARP-C7-U12-F	1.25	0.63	1/2-20 UNF-2B	2.75	2	0.5	0.75	1	0.5
1 1/2"										
2"										
2 1/2"	DARP-C7-U78-F	1.75	0.97	7/18-14 UNF-2B	3.44	2.31	0.5	1.13	1.5	0.81
1 1/2"										
2"										
2 1/2"										
3 1/4"										
4"	DARP-C7-U1-F	2.5	1.38	1-14 UNS-2B	4.57	2.94	0.5	1.63	2.25	1.16
5"										
6"										
3 1/4"										
4"	DARP-C7-U114-F	2.5	1.38	1 1/4-12 UNF-2B	4.57	2.94	0.5	1.63	2.25	1.16
5"										
6"										
6"	DARP-C7-U112-F	3.25	1.75	1 1/2-12 UNF-2B	6.63	4.38	0.81	2.25	3	1.5

Dimensions

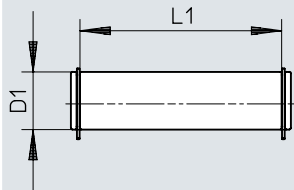
Dimensions – Threaded bolt DARA-U...-M

Download CAD data → www.festo.com

DSNB	DARA-U...-M	A	A1	KK
1 1/2"	DARA-U716-M	0.75	1.5	7/16-20 UNF-2A
2"				
2 1/2"				
1 1/2"	DARA-U34-M	1.13	2.25	3/4-16 UNF-2A
2"				
2 1/2"				
3 1/4"				
4"				
5"	DARA-U1-M	1.63	3.25	1-14 UNS-2A
3 1/4"				
4"				
5"				
6"	DARA-U114-M	2	4	1 1/4-12 UNF-2A
3 1/4"				
4"				
5"				
6"				

Dimensions

Dimensions – Pivot pin DADG-B-C7-...-AS

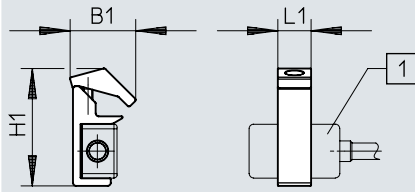
Download CAD data → www.festo.com

DSNB	DADG-B-C7-...-AS	D1 ø	L1
1 1/2"	DADG-B-C7-1/2"-AS	0.5	1.875
2"			
2 1/2"			
3 1/4" 4"	DADG-B-C7-3/4"-AS	0.75	2.625
6"	DADG-B-C7-1"-AS	1	3.125
– 1)	DADG-B-C7-1 3/8"-AS	1.375	4.125
– 2)	DADG-B-C7-1 3/4"-AS	1.75	5.125

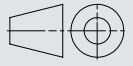
- 1) No direct attachment to cylinder DSNB possible. Bearing bolt DADG-B-C7-1 3/8"-AS for attachment to clevis DARC-C7-U114 and rod end DARC-C7B-U114.
 2) No direct attachment to cylinder DSNB possible. Bearing bolt DADG-B-C7-1 3/4"-AS for attachment to clevis DARC-C7-U112 and rod end DARC-C7B-U112.

Dimensions

Dimensions – Sensor holder SAMH-FC-SH

[Download CAD data → www.festo.com](http://www.festo.com)


[1] Proximity switch SDBF-FCS-1L...



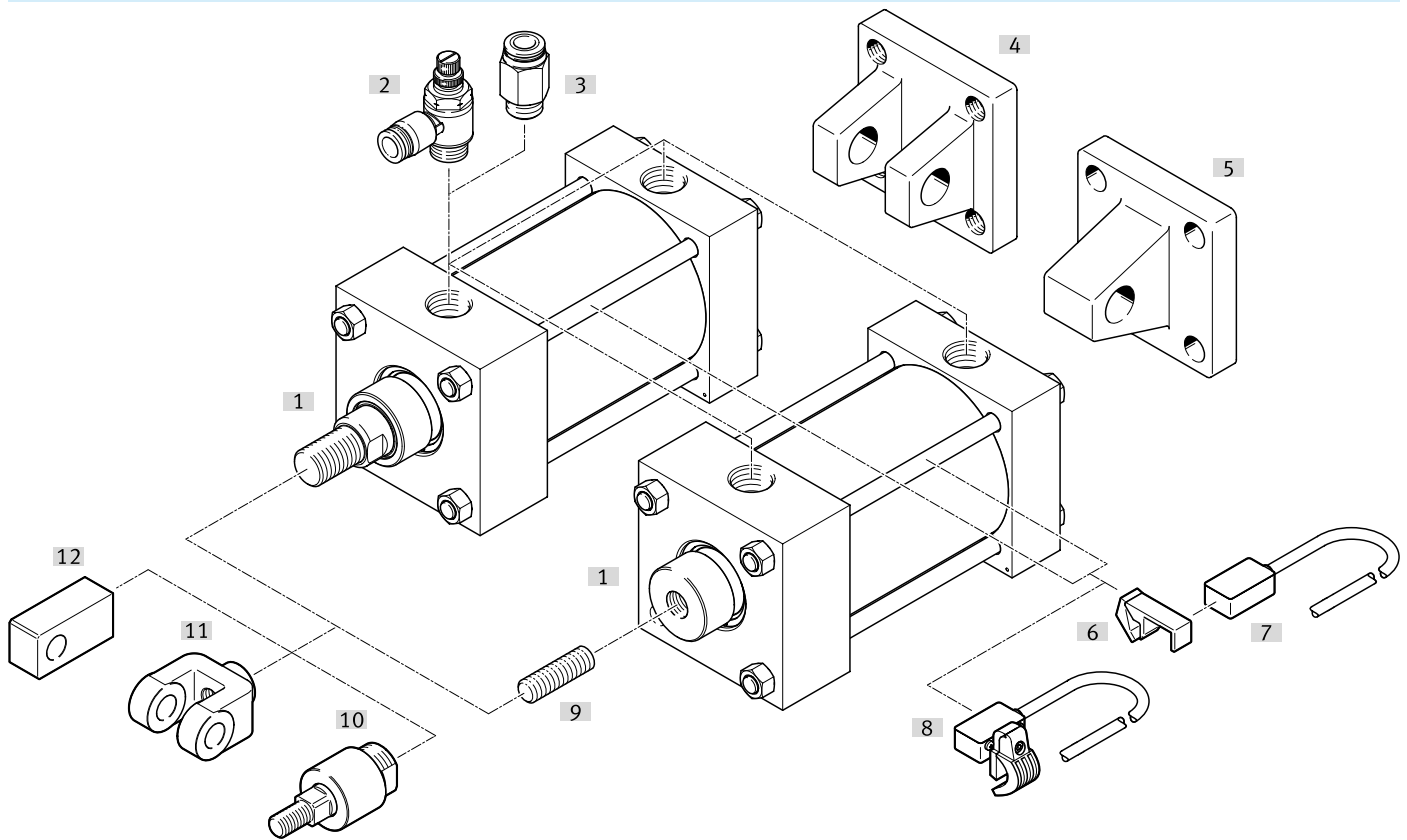
DSNB	SAMH-FC-SH	B1	H1	L1
1 1/2"	SAMH-FC-SH	0.75	1.3	0.43
2"				
2 1/2"				
3 1/4"				
4"				

Ordering data

Ordering information – Modular product system				
	Piston diameter	Mode of operation	Part no.	Type
	1 1/2"	Double-acting	8161111	DSNB-N-...-1 1/2"- -
	2"		8161112	DSNB-N-...-2"- -
	2 1/2"		8161113	DSNB-N-...-2 1/2"- -
	3 1/4"		8161114	DSNB-N-...-3 1/4"- -
	4"		8161115	DSNB-N-...-4"- -
	5"		8161116	DSNB-N-...-5"- -
	6"		8161117	DSNB-N-...-6"- -

Peripherals overview

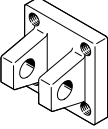
Peripherals overview



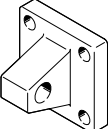
Accessories			→ Page/Internet
Type/order code	Description		
[1] Standards-based cylinder, inch DSNB	Conforms to standard NFPA/T3.6.7		dsnb
[2] One-way flow control valve GRLA-...	for speed regulation		48
[3] Push-in fitting QB-.../QBL-...	for connecting tubing with external tolerances		49
[4] Swivel mounting DAMC-C7-...-D	for rod eye		46
[5] Swivel mounting DAMC-C7-...-C	for rod clevis		46
[6] Mounting kit SAMH-FC-SH	for proximity switch SDBF-FCS		47
[7] Proximity switch SDBF-FCS-1L-...	can be integrated in mounting kit SAMH-FC-SH		47
[8] Proximity switch SDBF-FDS-1L-...	can be integrated into cylinder profile		48
[9] Threaded bolt DARA-U-...-M	for rod clevis, rod eye and self-aligning rod coupler		46
[10] Self-aligning rod coupler DARP-C7-U-...-F	for connection to the piston rod		46
[11] Rod clevis DARC-C7-U-...	Allows a swiveling movement in one plane		46
[12] Rod eye DARC-C7B-U-...	Allows a swiveling movement in one plane		46

Accessories

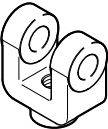
Swivel mounting DAMC-C7-...-D

	Description	Swivel mounting material	Note on materials	Part no.	Type
	for Ø 1 1/2" ... 6"	Cast steel	RoHS-compliant	8161159	DAMC-C7-6"-D

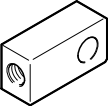
Swivel mounting DAMC-C7-...-C

	Description	Swivel mounting material	Note on materials	Part no.	Type
	for Ø 1 1/2" ... 6"	Painted cast steel	RoHS-compliant	8161160	DAMC-C7-6"-C

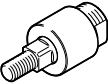
Rod clevis DARC-C7-U...

	Description	Rod clevis material	Note on materials	Part no.	Type
	for Ø 1 1/2" ... 5"	Painted cast steel	RoHS-compliant	8117049	DARC-C7-U34
	for Ø 1 1/2" ... 2 1/2"			8161119	DARC-C7-U78
	for Ø 3 1/4" ... 6"			8117048	DARC-C7-U716
	for Ø 3 1/4" ... 6"			8161118	DARC-C7-U12
	for Ø 6"			8161121	DARC-C7-U114
				8161120	DARC-C7-U1
				8161122	DARC-C7-U112

Rod eye DARC-C7B-U...

	Description	Material of rod eye	Note on materials	Part no.	Type
	for Ø 1 1/2" ... 2 1/2"	Steel, nickel-plated	RoHS-compliant	8161161	DARC-C7B-U12
	for Ø 3 1/4" ... 6"			8161163	DARC-C7B-U114
	for Ø 6"			8161162	DARC-C7B-U1
	for Ø 6"			8161164	DARC-C7B-U112

Self-aligning rod coupler DARP-C7-U...-F

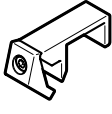
	Description	Housing material	Note on materials	Part no.	Type
	for Ø 1 1/2" ... 5"	Steel, oxidized	RoHS-compliant	8161155	DARP-C7-U78-F
	for Ø 1 1/2" ... 2 1/2"			8161154	DARP-C7-U12-F
	for Ø 3 1/4" ... 6"			8161157	DARP-C7-U114-F
	for Ø 6"			8161156	DARP-C7-U1-F
	for Ø 6"			8161158	DARP-C7-U112-F

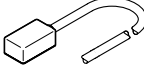
Threaded bolt DARA-U...-M

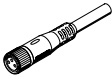
	Description	Threaded bolt material	Note on materials	Part no.	Type
	for Ø 1 1/2" ... 5"	Steel	RoHS-compliant	8148954	DARA-U34-M
	for Ø 1 1/2" ... 2 1/2"			8148953	DARA-U716-M
	for Ø 3 1/4" ... 6"			8161165	DARA-U1-M
	for Ø 3 1/4" ... 6"			8161166	DARA-U114-M

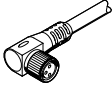
Accessories

Pivot pin DADG-B-C7-...-AS					
	Description	Bolt material	Note on materials	Part no.	Type
	for Ø 1 1/2" ... 2 1/2"	Steel	RoHS-compliant	8148951	DADG-B-C7-1/2"-AS
	for Ø 3 1/4" ... 4"			8148952	DADG-B-C7-3/4"-AS
	for Ø 6"			8161171	DADG-B-C7-1"-AS
	for DARC-C7-U112/ DARC-C7B-U112			8161173	DADG-B-C7-1 3/4"-AS
	for DARC-C7-U114/ DARC-C7B-U114			8161172	DADG-B-C7-1 3/8"-AS

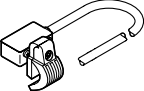
Sensor holder SAMH-FC-SH					
	Description	Mounting material	Note on materials	Part no.	Type
	for Ø 1 1/2" ... 4"	Steel	RoHS-compliant	8117067	SAMH-FC-SH

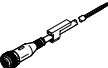
Proximity switch SDBF-FCS-1L-...							
	Description	Type of mounting	Switching output	Electrical connection 1, connection technology	Electrical connection 1, number of pins/wires	Part no.	Type
	for Ø 1 1/2" ... 4"	With mounting kit	NPN	M8x1 A-coded as per EN 61076-2-104	3	8117066	SDBF-FCS-1L-NU-K-N-M8
				Open end		8117063	SDBF-FCS-1L-NU-K-9-N-LE
			PNP	M8x1 A-coded as per EN 61076-2-104		8117065	SDBF-FCS-1L-PU-K-N-M8
				Open end		8117062	SDBF-FCS-1L-PU-K-9-N-LE

Connecting cables NEBU-M8G3-...						
	Electrical connection 1, connection technology	Electrical connection 2, connection technology	Electrical connection 2, number of pins/wires	Cable length	Part no.	Type
	M8x1 A-coded as per EN 61076-2-104	Open end	3	2.5 m	★ 541333	NEBU-M8G3-K-2.5-LE3
				5 m	★ 541334	NEBU-M8G3-K-5-LE3

Connecting cables NEBU-M8W3-...						
	Electrical connection 1, connection technology	Electrical connection 2, connection technology	Electrical connection 2, number of pins/wires	Cable length	Part no.	Type
	M8x1 A-coded as per EN 61076-2-104	Open end	3	2.5 m	★ 541338	NEBU-M8W3-K-2.5-LE3
				5 m	★ 541341	NEBU-M8W3-K-5-LE3

Accessories

Proximity switch SDBF-FDS-1L-...							
	Description	Type of mounting	Switching output	Electrical connection 1, connection technology	Electrical connection 1, number of pins/wires	Part no.	Type
	for Ø 5", 6"	Clamped	NPN	M12x1 A-coded as per EN 61076-2-101	3	8161170	SDBF-FDS-1L-NU-K-N-M12
				Open end		8161168	SDBF-FDS-1L-NU-K-9-N-LE
			PNP	M12x1 A-coded as per EN 61076-2-101		8161169	SDBF-FDS-1L-PU-K-N-M12
				Open end		8161167	SDBF-FDS-1L-PU-K-9-N-LE

Connecting cables NEBU-M12G5-...						
	Electrical connection 1, connection technology	Electrical connection 2, connection technology	Electrical connection 2, number of pins/wires	Cable length	Part no.	Type
	M12x1 A-coded as per EN 61076-2-101	Open end	3	2.5 m	★ 541363	NEBU-M12G5-K-2.5-LE3
				5 m	★ 541364	NEBU-M12G5-K-5-LE3

Connecting cables NEBU-M12W5-...						
	Electrical connection 1, connection technology	Electrical connection 2, connection technology	Electrical connection 2, number of pins/wires	Cable length	Part no.	Type
	M12x1 A-coded as per EN 61076-2-101	Open end	3	2.5 m	541367	NEBU-M12W5-K-2.5-LE3
				5 m	541370	NEBU-M12W5-K-5-LE3

One-way flow control valve GRLA-...				
	Description	Pneumatic connection 2	Part no.	Type
	for Ø 1 1/2" ... 6"	1/8 NPT	534657	GRLA-1/8-QB-3/16-U
			534658	GRLA-1/8-QB-1/4-U
			534659	GRLA-1/8-QB-5/16-U
			534656	GRLA-1/8-QB-5/32-U
		1/4 NPT	534660	GRLA-1/4-QB-3/16-U
			534661	GRLA-1/4-QB-1/4-U
			534663	GRLA-1/4-QB-3/8-U
			564843	GRLA-1/4-QB-5/32-U
			534662	GRLA-1/4-QB-5/16-U
		3/8 NPT	534666	GRLA-3/8-QB-3/8-U
			534664	GRLA-3/8-QB-1/4-U
			564844	GRLA-3/8-QB-3/16-U
			534667	GRLA-3/8-QB-1/2-U
			534665	GRLA-3/8-QB-5/16-U
	for Ø 3 1/4" ... 6"	1/2 NPT	564846	GRLA-1/2-QB-3/8-U
			564845	GRLA-1/2-QB-5/16-U
			564847	GRLA-1/2-QB-1/2-U

One-way flow control valve QB-...				
	Description	Pneumatic connection 1	Part no.	Type
	for Ø 1 1/2" ... 6"	external thread 1/8 NPT	533274	QB-1/8-5/16-U

Accessories

One-way flow control valve QB-...

	Description	Pneumatic connection 1	Part no.	Type
	for Ø 1 1/2" ... 6"	external thread 1/8 NPT	533273	QB-1/8-1/4-U
			567773	QB-1/8-3/8-U
			533272	QB-1/8-3/16-U
			533271	QB-1/8-5/32-U
		external thread 1/4 NPT	533276	QB-1/4-1/4-U
			533278	QB-1/4-3/8-U
			567771	QB-1/4-1/2-U
			533277	QB-1/4-5/16-U
			533275	QB-1/4-3/16-U
			567772	QB-1/4-5/32-U
		external thread 3/8 NPT	533280	QB-3/8-5/16-U
			533282	QB-3/8-1/2-U
			533279	QB-3/8-1/4-U
	for Ø 3 1/4" ... 6"	external thread 1/2 NPT	533281	QB-3/8-3/8-U
			533284	QB-1/2-1/2-U
			533283	QB-1/2-3/8-U
			567770	QB-1/2-5/16-U

One-way flow control valve QBL-...

	Description	Pneumatic connection 1	Part no.	Type
	for Ø 1 1/2" ... 6"	external thread 1/8 NPT	533291	QBL-1/8-3/16-U
			533293	QBL-1/8-5/16-U
			533292	QBL-1/8-1/4-U
			533290	QBL-1/8-5/32-U
			567777	QBL-1/8-3/8-U
		external thread 1/4 NPT	533295	QBL-1/4-1/4-U
			533294	QBL-1/4-3/16-U
			567776	QBL-1/4-5/32-U
			533297	QBL-1/4-3/8-U
			567775	QBL-1/4-1/2-U
			533296	QBL-1/4-5/16-U
		external thread 3/8 NPT	533299	QBL-3/8-5/16-U
			533301	QBL-3/8-1/2-U
			567763	QBL-3/8-3/16-U
			533300	QBL-3/8-3/8-U
			533298	QBL-3/8-1/4-U
	for Ø 3 1/4" ... 6"	external thread 1/2 NPT	533302	QBL-1/2-3/8-U
			533303	QBL-1/2-1/2-U

Seal set DADG-SK-C8-... for DSNB-...-N/-P

	Description	Note on materials	Part no.	Type
	for Ø 1 1/2"	RoHS-compliant	8161123	DADG-SK-C8-1 1/2"
	for Ø 2"		8161124	DADG-SK-C8-2"
	for Ø 2 1/2"		8161125	DADG-SK-C8-2 1/2"
	for Ø 3 1/4"		8161126	DADG-SK-C8-3 1/4"
	for Ø 4"		8161127	DADG-SK-C8-4"
	for Ø 5"		8161128	DADG-SK-C8-5"
	for Ø 6"		8161129	DADG-SK-C8-6"

Seal set DADG-SK-C8-... for DSNB-...-PPV/-PPV1/-PPV2

	Description	Note on materials	Part no.	Type
	for Ø 1 1/2"	RoHS-compliant	8161130	DADG-SK-C8-1 1/2"-PP
	for Ø 2"		8161131	DADG-SK-C8-2"-PP
	for Ø 2 1/2"		8161132	DADG-SK-C8-2 1/2"-PP
	for Ø 3 1/4"		8161133	DADG-SK-C8-3 1/4"-PP
	for Ø 4"		8161134	DADG-SK-C8-4"-PP

Accessories

Seal set DADG-SK-C8-... for DSNB-...-PPV/-PPV1/-PPV2				
	Description	Note on materials	Part no.	Type
	for Ø 5"	RoHS-compliant	8161135	DADG-SK-C8-5"-PP
	for Ø 6"		8161136	DADG-SK-C8-6"-PP

Seal set DADG-SK-C8-... for DSNB-...-PPV/-PPV1/-PPV2 and increased transverse load [R]				
	Description	Note on materials	Part no.	Type
	for Ø 1 1/2"	RoHS-compliant	8161137	DADG-SK-C8-1 1/2"-PPR
	for Ø 2"		8161138	DADG-SK-C8-2"-PPR
	for Ø 2 1/2"		8161139	DADG-SK-C8-2 1/2"-PPR
	for Ø 3 1/4"		8161140	DADG-SK-C8-3 1/4"-PPR
	for Ø 4"		8161141	DADG-SK-C8-4"-PPR
	for Ø 5"		8161142	DADG-SK-C8-5"-PPR
	for Ø 6"		8161143	DADG-SK-C8-6"-PPR