

Check valves REE

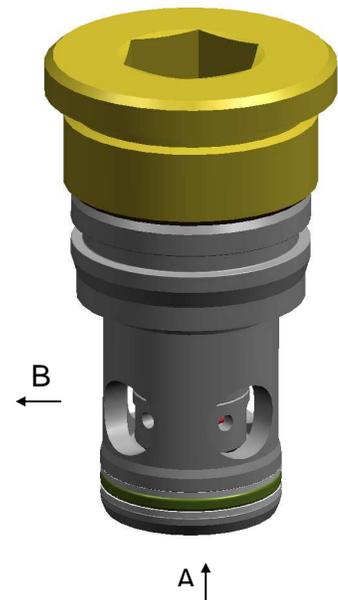
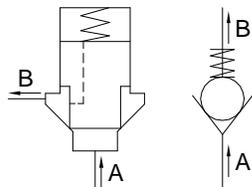
2-Way Cartridge Type REE (Check valves) with deepened plug mounting cavity. NB10 – NB25

General Description

2-Way Cartridge Type REE have two operational ports A and B. The flow direction is A to B, B to A is blocked (leak-free). A wide selection of cracking pressure is available from 0,3 to 6 bar.

The preferred mode of mounting is the installation in manifold blocks, which can be equipped with several valves depending on the hydraulic circuit for the specific application. Each valve can be connected to each other in the manifold block.

These valves are available in various sizes:
10, 16 and 25.



Benifits

- Space-saving for the installation in manifold blocks. No cartridge cover are required.
- Any deep positioning (deepened plug mounting cavity) in manifold blocks, without additional components.

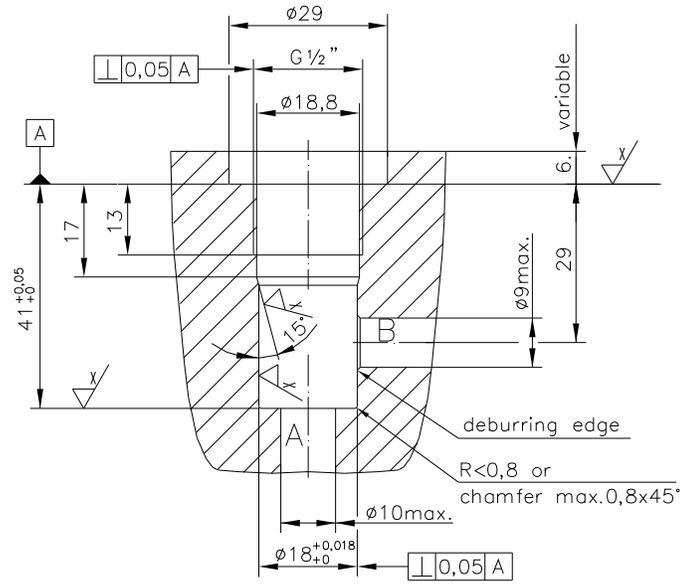
Sizes

- Maximum operating pressure: 350 bar
- Nominal flow at $\Delta p = 5$ bar (Cartridge completely opened without spring):
 - NB10: 60 L/min
 - NB16: 210 L/min
 - NB25: 430 L/min

General Data	Value	Unit	Specification
Mode of construction	-	-	2-Way-Cartridge with deepened plug mounting cavity
Type	-	-	REE
Design	-	-	Cartridge valve
Mounting style	-	-	Manifold cartridge mounting
Sizes	NB	-	10 16 25
Tightening torque Closing plug	-	Nm	72 (G1/2") 400 (G1 1/4") 550 (G1 1/2")
Mounting cavity	-	-	see mounting cavity on page 3+4
Mounting position	-	-	any
Flow direction	-	-	A → B ; B → A blocked
Operating pressure	max.	MPa	35
Ambient temperature range	min.	°C	-20
	max.	°C	+80
Seals* for hydraulic fluids	-	-	FKM, hydraulic fluids on mineral oil basis, HFD type fluids
	-	-	NBR, hydraulic fluids on mineral oil basis, HFA, HFB, HFC type fluids
	-	-	other hydraulic fluids on request
Hydraulic fluid temperature range	-	°C	-10 to +80 for FKM seals
	-	°C	-30 to +80 for NBR seals
Viscosity range	min.	mm ² /s	2,8
	max.	mm ² /s	380
Operating viscosity	-	mm ² /s	35
Cleanliness class to ISO-Code	max.		ISO 4406 (C) class 20/18/15

* FKM: Fluorosilicone rubber (Viton®), NBR: Nitril rubber (Buna N)

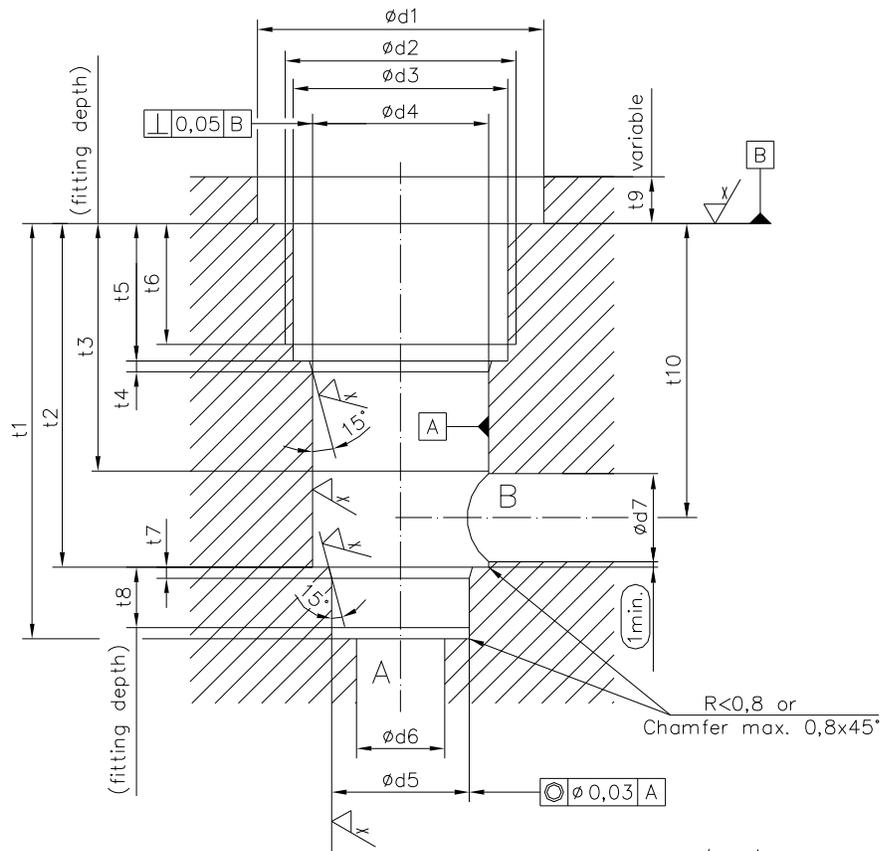
REE NB10



$\sqrt{\text{I}}$	$\sqrt{\text{U}}$	$\sqrt{\text{V}}$	$\sqrt{\text{W}}$	$\sqrt{\text{X}}$	$\sqrt{\text{Y}}$	$\sqrt{\text{Z}}$
$\sqrt{\text{I}}$	$\sqrt{\text{Rz 63}}$	$\sqrt{\text{Rz 25}}$	$\sqrt{\text{Rz 16}}$	$\sqrt{\text{Rmax10}}$	$\sqrt{\text{Rz 4}}$	$\sqrt{\text{Rz 1}}$

Mounting cavity

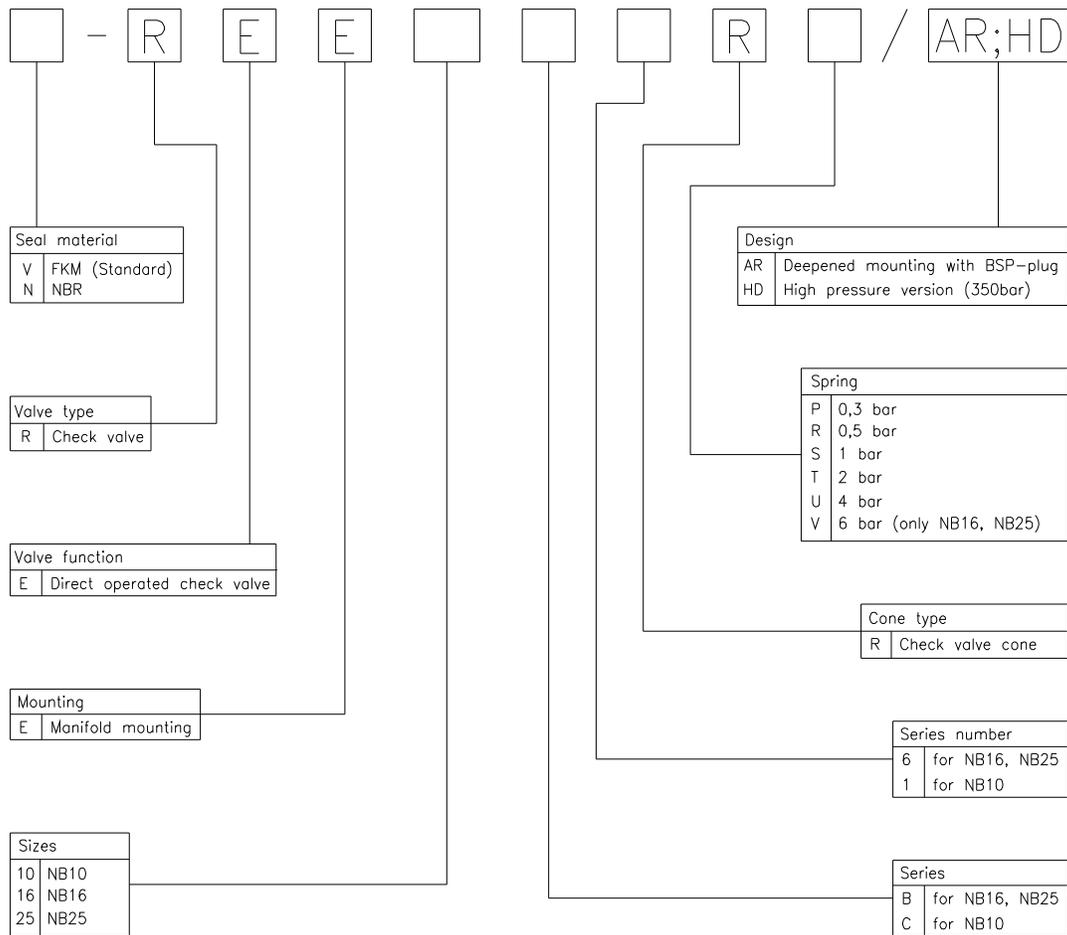
REE NB16 + NB25



Maß	NB16	NB25
d1	52	57
d2	G11/4"	G11/2"
d3	39	–
d4 ^{H7}	32	45
d5 ^{H7}	25	34
d6	16	25
d7	16	25
d7 _{max.}	25	32
t1 ^{+0,050} _{+0,005}	75,5	93,5
t2 ^{+0,1}	62,5	79,5
t3	45	50
t4	2	–
t5	25	–
t6	22	24
t7	2	2,5
t8	11	12
t9	8,5	8,5
t10	53,5	65,5
t10 at d4 _{max.}	49	62

T	U	V	W	X	Y	Z
	Rz 63	Rz 25	Rz 16	Rmax10	Rz 4	Rz 1

Ordering code



Order examples

NB10:

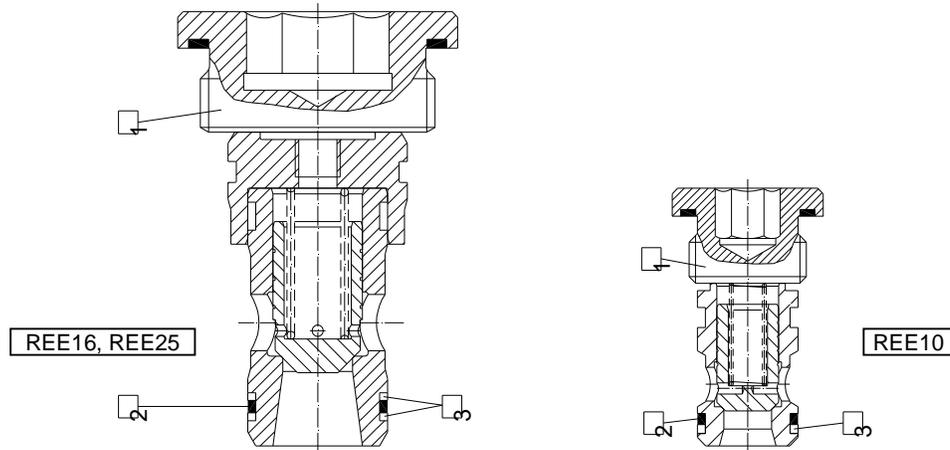
V-REE10C1RS/AR;HD

NB16:

V-REE16B6RT/AR;HD

NB25:

V-REE25B6RU/AR;HD



Order numbers REE valves (V-version) *			
	Description		Order number
NB10	V-REE10C1RP/AR;HD		XSB10009-000V00
	V-REE10C1RR/AR;HD		XSB10010-000V00
	V-REE10C1RS/AR;HD		XSB10011-000V00
	V-REE10C1RT/AR;HD		XSB10012-000V00
	V-REE10C1RU/AR;HD		XSB10013-000V00
NB16	V-REE16B6RP/AR;HD		XSB10276-000V00
	V-REE16B6RR/AR;HD		XSB10277-000V00
	V-REE16B6RS/AR;HD		XSB10278-000V00
	V-REE16B6RT/AR;HD		XSB10279-000V00
	V-REE16B6RU/AR;HD		XSB10280-000V00
	V-REE16B6RV/AR;HD		XSB10281-000V00
NB25	V-REE25B6RP/AR;HD		XSB10283-000V00
	V-REE25B6RR/AR;HD		XSB10284-000V00
	V-REE25B6RS/AR;HD		XSB10285-000V00
	V-REE25B6RT/AR;HD		XSB10286-000V00
	V-REE25B6RU/AR;HD		XSB10287-000V00
	V-REE25B6RV/AR;HD		XSB10288-000V00
Seal kits (V-version) *			
Pos.	Qty.	Description	Order number
-	-	V-REE10 (complete seal kit)	XEB13971-000V00
1	1	Closing plug G1/2" (FKM)	C97891-001
2	1	O-Ring Viton (FKM) 14,00x1,78	X980-02015
3	1	Back-up ring 15,2x18x0,7	X780-18015
-	-	V-REE16 (complete seal kit)	XEB16265-000V00
1	1	Closing plug G1 1/4" (FKM)	CA60695-001
2	1	O-Ring Viton (FKM) 21,95x1,78	X980-02020
3	2	Back-up ring 22,1x25x0,7	X780-08020
-	-	V-REE25 (complete seal kit)	XEB18682-000V00
1	1	Closing plug G1 1/2" (FKM)	CA28531-001
2	1	O-Ring Viton (FKM) 28,24x2,62	X980-02122
3	2	Back-up ring 29,5x34x0,7	X780-18122

* For valves with others seals, the order number remains the same, however 'V' identifying the seal is replaced by the identifier for the required seal, i.e., **N (NBR)**.
 Example : XSB10013-000V00 becomes XSB10013-000N00.

As a recognized leader in motion control technologies, Moog offers a full range of services to support our products and ensure that they meet the expectations of customers. Moog experts are the best at helping customers select the right products and ensuring that they run reliably for a long time.

When it is time for new machine commissioning, refurbishment or routine maintenance, our engineers can help to optimize machine performance, minimize downtime and ensure the smooth application of our products.

Moog Authentic Repair™ is designed to provide the highest quality repair services using original equipment parts, the latest design specifications, and highly trained technicians. This ensures that our repaired products will run as well as when they were new.

With facilities in over 25 countries, Moog is committed to offering convenient local service to our customers.

Visit www.moog.com/industrial/worldwide to find the location nearest you for application engineering, repair, or field services.

FOR MORE INFORMATION VISIT
<http://www.moog.com/industrial>

MORE PRODUCTS. MORE SUPPORT.

Moog designs a range of motion control products to complement those featured in this document. Moog also provides service and support for all of our products. For more information, contact the Moog facility closest to you.

Australia
+61 3 9561 6044
Service + 61 3 8545 2140
info.australia@moog.com
service.australia@moog.com

India
+91 80 4057 6666
Service +91 80 4057 6604
info.india@moog.com
service.india@moog.com

Russia
+7 8 31 713 1811
Service +7 8 31 764 5540
info.russia@moog.com
service.russia@moog.com

Brazil
+55 11 3572 0400
info.brazil@moog.com
service.brazil@moog.com

Ireland
+353 21 451 9000
info.ireland@moog.com

Singapore
+65 677 36238
Service +65 651 37889
info.singapore@moog.com
service.singapore@moog.com

Canada
+1 716 652 2000
info.canada@moog.com

Italy
+39 0332 421 111
Service 800 815 692
info.italy@moog.com
service.italy@moog.com

South Africa
+27 12 653 6768
info.southafrica@moog.com

China
+86 21 2893 1600
Service +86 21 2893 1626
info.china@moog.com
service.china@moog.com

Japan
+81 46 355 3767
info.japan@moog.com
service.japan@moog.com

Spain
+34 902 133 240
info.spain@moog.com

France
+33 1 4560 7000
Service +33 1 4560 7015
info.france@moog.com
service.france@moog.com

Korea
+82 31 764 6711
info.korea@moog.com
service.korea@moog.com

Sweden
+46 31 680 060
info.sweden@moog.com

Germany
+49 7031 622 0
Service +49 7031 622 197
info.germany@moog.com
service.germany@moog.com

Luxembourg
+352 40 46 401
info.luxembourg@moog.com

Turkey
+90 216 663 6020
info.turkey@moog.com

Hong Kong
+852 2 635 3200
info.hongkong@moog.com

The Netherlands
+31 252 462 000
info.thenetherlands@moog.com
service.netherlands@moog.com

United Kingdom
+44 (0) 1684 858000
Service +44 (0) 1684 278369
info.uk@moog.com
service.uk@moog.com

USA
+1 716 652 2000
info.usa@moog.com
service.usa@moog.com

For product information, visit www.moog.com/industrial
For service information, visit www.moogglobalsupport.com

Moog is a registered trademark of Moog Inc. and its subsidiaries.
All trademarks as indicated herein are the property of Moog Inc. and its subsidiaries.
©2017 Moog Inc. All rights reserved. All changes are reserved.

REE_AR_HD-1-EN-Rueckschlagventile
Moog Lux/Rev. C, May 2017