

APV RG4

VANNE DE RÉGULATION

FORM NO.: H170720 REVISION: FR-7

READ AND UNDERSTAND THIS MANUAL PRIOR TO OPERATING OR SERVICING THIS PRODUCT.



Déclaration de conformité de l'UE pour vannes et manifolds

SPX FLOW TECHNOLOGY GERMANY GMBH
Gottlieb-Daimler-Str. 13, D-59439 Holzwickede
déclare par la présente que les

**vannes double joint et double siège APV des gammes
SD4, SDT4, SDU4, SDMS4, SDMSU4, SDTMS4, SWcip4, DSV,
DA3, DA3SLD, DE3, DEU3, DET3, DKR2, DKRT2, DKRH2**
des diamètres nominaux DN 25 - 150, ISO 1" – 6" et 1 Sh5 - 6 Sh5

vannes papillon APV des gammes SV1 et SVS1F, SVL et SVSL
des diamètres nominaux DN 25 - 100, DN 125 - 250 et ISO 1" – 4"

soupapes à tournant sphérique APV des gammes KHI, KHV
des diamètres nominaux DN 15 - 100

vannes simple siège, vannes à membrane et soupapes à ressort APV des gammes
**S2, SW4, SWhp4, SW4DPF, SWmini4, SWT4, SWS4, MF4, MS4, MSP4, AP/T1, CPV,
RG4, RG4DPF, RGMS4, RGE4, RGE4DPF, RGEMS4, PR2, PRD2, SI2, UF/R3, VRA/H**
des diamètres nominaux DN 10 - 150, ISO 1/2" – 4" et 1 Sh5 - 6 Sh5

et les manifolds fabriqués

sont conformes aux exigences des Directives 2006/42/CE (substitution pour 89/392/CEE et 98/37/CE) et ProdSG (substitution pour GPSG - 9.GPSGV).

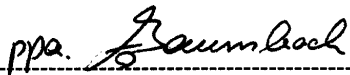
Pour des vérifications officielles, SPX FLOW présente
une documentation technique selon Annexe VII de la Directive du Conseil.
Elle est composée des documents de développement et de construction,
de la description des mesures prises pour assurer la conformité et
correspondre aux exigences essentielles de sécurité et de santé,
incluant une analyse des risques, ainsi qu'un manuel d'instructions
contenant des instructions de sécurité.

La conformité des vannes et des manifolds est garantie.

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RG4 DN-Ausführung	RN 01.170.0
RG4 Zoll-Ausführung	RN 01.170.1
RG4 3-A Zoll-Ausführung	RN 01.170.8
Pneumatische Stellantriebe	RN 01.170.13-1,-2,-3,-4
Substitutionsliste	RN 261.558

1. Généralités

Ce manuel doit être très attentivement lu et observé à la lettre par les opérateurs et le personnel de maintenance.

Notez que notre responsabilité ne sera pas engagée pour des dommages ou mauvais fonctionnements dûs au non respect des règles de ce manuel.

Nous nous réservons le droit d'effectuer des modifications sur les descriptions et données techniques fournies.

2. Instructions de sécurité



Danger!

Ce symbole vous signale les mesures principales de sécurité. Vous le trouverez là où les activités décrites comportent des risques pour la santé, pour les individus et les valeurs réelles.

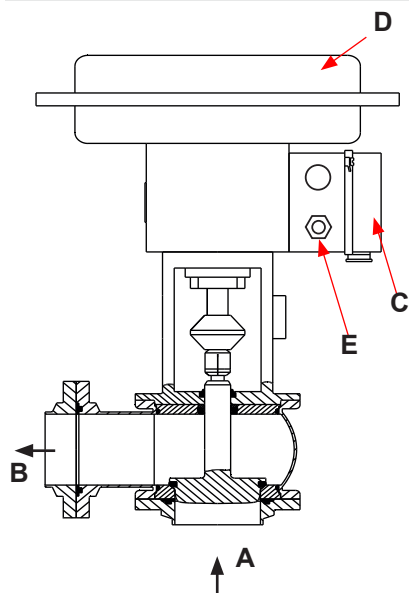
- Ne pas introduire vos doigts dans, ni toucher l'étrier et les étendues de commande (régulateur de position) de la vanne. Risque de blessure par soudain actionnement de la vanne.
- Avant toute intervention sur la vanne (p. ex. remplacement des joints) séparer les raccords électriques et pneumatiques.
- Ne pas introduire vos doigts dans, ni toucher une vanne ouverte. En outre, observer les instructions pour la vanne en état monté.

3. Fonctionnement

- Les vannes hygiéniques de régulation RG4 sont conçue pour être utilisées pour le réglage continu de débits dans les domaines suivants: industries des boissons, entreprises alimentaires et industries pharmaceutiques et de la chimie fine.
- Les vannes de régulation sont employées pour le réglage de débits et de pression de liquides et de gaz.
- En version de base, la vanne RG4 est construite comme vanne d'équerre et, ainsi, offre une dérivation favorable de débits, le sens de débit étant de **A** à **B** (voir fig. 1).
- Le corps exempt de zones mortes offre un nettoyage optimale. Étanchéité sans fentes des différentes parties du corps grâce au joint profilé - pas de sources d'infection.
- La dépendance entre le débit et la course du cône est définie par la ligne caractéristique.

3. Fonctionnement

fig. 1 installation avec régulateur de position intégré



- Des valeurs kvs (débit) différentes, auprès d'un diamètre nominal défini, peuvent être réalisées par les différents intérieurs de vanne (siège de vanne, cône de vanne).
- La table en chapitre **11** indique les pièces qui doivent être remplacées en cas de modification de la valeur kvs. Le dimensionnement des vannes selon la plage de pression de réglage et la valeur kvs est effectué par le constructeur.
- Les raccords électriques et pneumatiques se trouvent sur le côté du régulateur de position (**G**).

Le vérin pneumatique (**D**) fournit la course et la force pour ouvrir ou fermer l'actionneur. Le vérin à membrane convient pour des plus grandes courses de réglage avec la moindre friction propre. Le régulateur de position (**C**) garantit l'adjonction prédéfinie de la position de la vanne et du signal de réglage. Il compare le signal de réglage (4-20mA) transmis par le dispositif de réglage avec la course de l'actionneur et définit la pression de réglage pneumatique comme grandeur de sortie.

Dépendant des besoins, la vanne de régulation peut être opérée en fonction vanne - normalement ouverte (NO) ou vanne - normalement fermée (NF).

MFS - Vérin à membrane - normalement fermé (NF)

Le vérin ouvre avec la pression de réglage et ferme avec la pression de ressort.

MFH - Vérin à membrane - normalement ouvert (NO)

Le vérin ferme avec la pression de réglage et ouvre avec la pression de ressort.

Pour les différentes applications, les vérins à membrane sont disponibles avec de différentes surfaces de vérin et pressions de réglage.

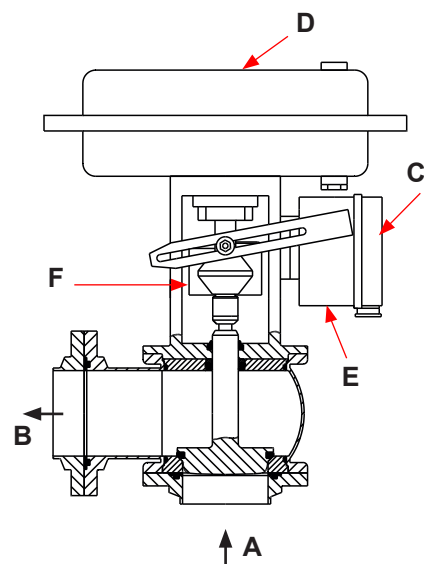
Le régulateur de position, en version standard, est un transformateur électro-pneumatique. Le sens de circulation peut être ascendant (sens équivalent >>) ou descendant (sens inverse <<).

On distingue 2 types de montage pour les régulateurs de position:

1. Régulateur de position est intégré dans le vérin à membrane; le signal en retour de position de la vanne se fait comme prise mécanique sur la tige de vanne dans le régulateur de position intégré (**fig. 1**).
2. Régulateur de position selon Namur (**fig. 2**) Le régulateur de position est monté par une nervure sur l'étrier. Le signal en retour de position de la vanne se fait par la came avec tôle de fixation montée sur l'arbre de vanne.

L'indication de position de la vanne peut également s'effectuer dans le régulateur de position; il est possible de sortir la position finale de la vanne ou un signal de retour analogue sur l'ensemble de la course (4-20mA).

fig. 2 installation avec régulateur de position selon NAMUR



4. Utilisation conforme à la destination

L'utilisation conforme à la destination comme domaine d'application des vannes de régulation RG4 est le réglage continu de débits dans les domaines suivants: industries des boissons, entreprises alimentaires, industries pharmaceutiques et de la chimie fine.

Des modifications arbitraires de la construction de la vanne dépravent la sécurité ainsi que la fonctionnalité de la vanne et ne sont pas licites.

Remarque : ATEX et 3A sont optionnels et non standard.

5. Mise en place

- La vanne RG4 doit être installée de manière à ce que le produit ou la solution de nettoyage puisse s'écouler du corps de vanne, c'est-à-dire en position verticale de préférence.

Attention! Observer les instructions de soudage.

5.1. Instructions de soudage

- Démontez les brides du corps avant tout soudage de la vanne. Seulement le pointage ou l'ajustage de la vanne peut être effectué avec brides montées.
- Les soudures ne doivent être effectuées que par des soudeurs qualifiés (DIN EN ISO 9606-1). (qualité de soudure DIN EN ISO 5817).
- Le soudage du corps de la vanne doit être effectué de manière à ce que les forces de déformation ne puissent être transférées de l'extérieur au corps de la vanne.
- La préparation d'un joint soudé allant jusqu'à 3 mm d'épaisseur doit être réalisée de bout à bout de forme carrée sans air. (Prevoyez le retrait!)
- Une soudure "orbitale" TIG est préférable!
- Après les soudages du corps de la vanne et de la ligne, les parties correspondantes de l'installation ou de la ligne doivent être nettoyées de résidus de soudage et de crasses. En cas de non respect de ces instructions de nettoyage, les résidus de soudage ou les crasses peuvent se déposer dans la vanne et causer des détériorations.
- Tout type de détérioration survenant en raison d'instructions de soudage qui n'ont pas été respectées ne seront pas couverts par notre garantie.
- Observer les règles de soudage pour les applications aseptiques des Directives AWS/ANSI et EHEDG.

6. Maintenance

- Le démontage et montage du siège de vanne / cône de vanne se fait selon les instructions de démontage / montage (chap. 9).
- Le démontage et montage des joints se fait selon les instructions de démontage / montage.
- Légèrement graisser tous les joints avant leur montage.

Recommandation:

Graisse de montage APV pour EPDM et FPM

(0,75 kg/boîte - réf. 000 70-01-019/93; H147382)

(60 g/ Tube - réf. 000 70-01-018/93; H147381)

ou

Graisse de montage APV pour VMQ et NBR

(0,6 kg/ boîte - N° réf. 000 70-01-017/93; H147380)

(60 g/ Tube - N° réf. 000 70-01-016/93; H147379)

- ! N'utiliser **pas de** graisse contenant de l'huile minérale avec les joints EPDM!
- ! N'utiliser **pas de** graisse sur base Silicone avec les joints VMQ !

7. Matières

Pièce:	Matières:
- corps, arbre, couvercle, siège, brides	1.4404 (AISI 316L) (DIN EN 10088)
- étrier	1.4308 (DIN EN 10088)
- accouplement (compl.), vis, écrous	1.4301 (DIN EN 10088)
- joint de corps	Standard EPDM (VMQ, FPM, HNBR)
- joint de siège, joint d'arbre joint de bride FGN1	Standard EPDM (FPM, HNBR) VMQ (Selon les pièces détachées)
- plaque d'identité	étiquette adhésive PVC

7. Werkstoffe

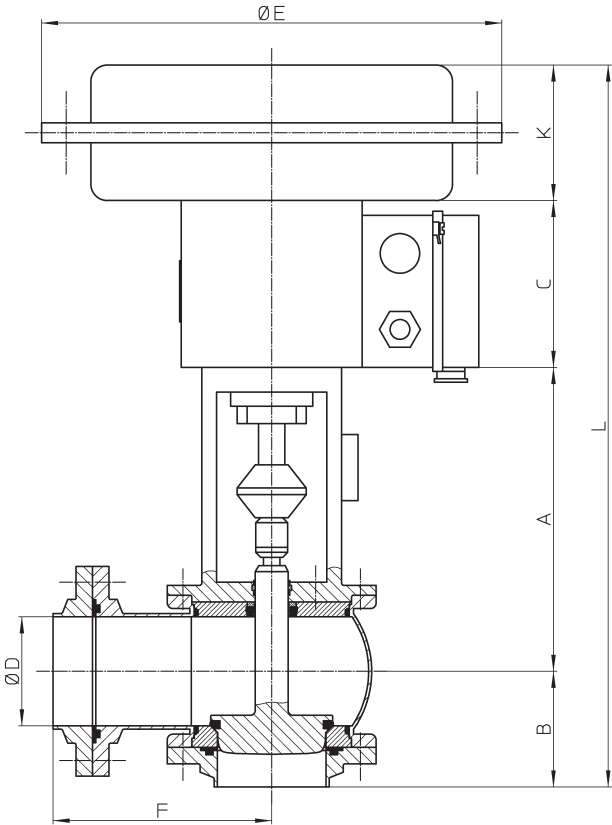
Pièce:	Matières:
Vérin à membrane	
- coquille à membrane	tôle d'acier revêtue aux résines synthétiques
- membrane roulante	NBR ou EPDM à couche textile intermédiaire
- tige de raccord, pièce intermédiaire	1.4301 (DIN EN 10088)
- ressorts	1.1250 ou 1.7102 revêtus aux résines synthétiques
Régulateur de position	
- corps	moule aluminium de coulée sous pression, revêtue aux résines synthétiques ou plastique
- parties extérieures	1.4301 et 1.4104 (DIN EN 10088)

8. Dimensions

- 8.1. Montage régulateur de position intégré(dimensions métriques)
- 8.2. Montage régulateur de position intégré(dimensions pouce)
- 8.3. Montage régulateur de position selon NAMUR(dimensions métriques)
- 8.4. Montage régulateur de position selon NAMUR(dimensions pouce)

8. Dimensions

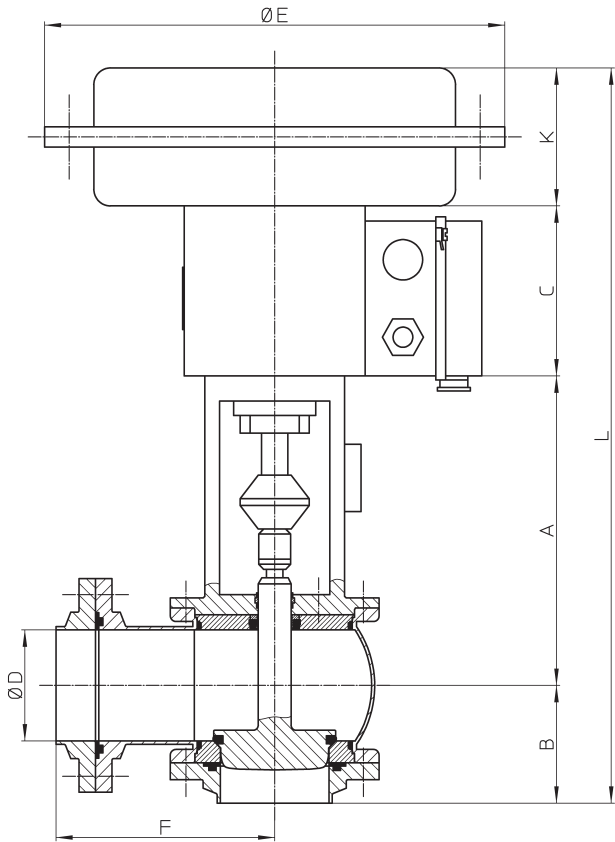
8.1. Montage régulateur de position intégré(dimensions métriques)



Dimensions en mm										
DN	surface de vérin(cm²)	L	A	B	C	ØD	F	ØE	K	poids en kg
25	120	371	163.5	49.5	88	26	98	168	70	9.9
	175	392			101			215	78	11.8
40	120	383	169.5	55.5	88	38	115	168	70	11.7
	175	404			101			215	78	13.1
	350	408						280	82	15.1
50	120	395	175.5	61.5	88	50	120	168	70	12.2
	175	416			101			215	78	13.7
	350	420						280	82	15.7
65	175	433	184.0	70.0	101	66	133	215	78	16.1
	350	437						280	82	17.4
80	175	448	191.5	77.5	101	81	146	215	78	17.2
	350	452						280	82	19.8
100	350	471	201.0	87.0	101	100	159	280	82	22.7
	750	544	217.0					394	139	52.7
125	350	503	215.5	104.5	101	125	184	280	82	23.9
	750	571	226.5					394	139	53.8
150	750	596	239.0	117.0	101	150	204	394	139	58.0

8. Dimensions

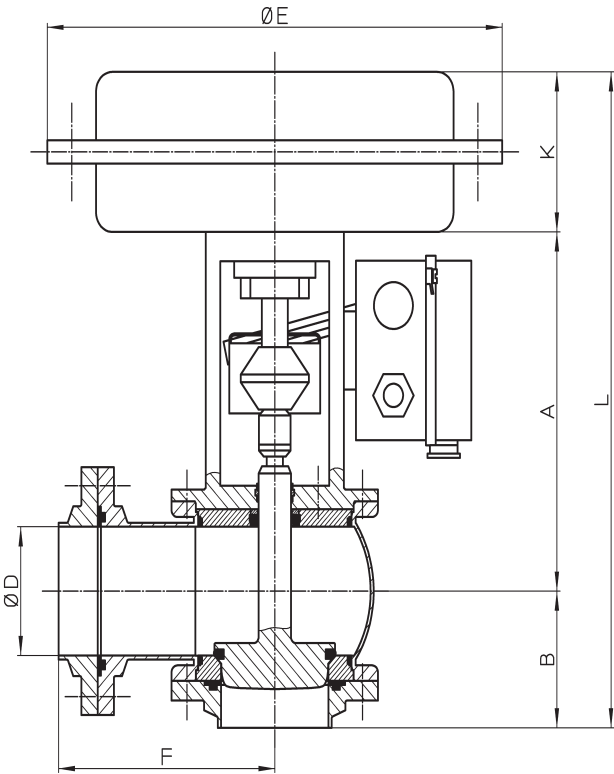
8.2. Montage régulateur de position intégré(dimensions pouce)



Dimensions en mm										
Zoll	surface de vérin(cm²)	L	A	B	C	ØD	F	ØE	K	poids en kg
1"	120	367	161.6	47.6	88	22.2	98	168	70	9.9
	175	388			101			215	78	11.8
1,5"	120	380	167.9	53.9	88	34.9	115	168	70	11.7
	175	401			101			215	78	13.1
	350	405						280	82	15.1
2"	120	393	174.3	60.3	88	47.6	120	168	70	12.2
	175	414			101			215	78	13.7
	350	418						280	82	15.7
2,5"	175	427	181.2	67.2	101	60.3	133	215	78	16.1
	350	431						280	82	17.4
3"	175	440	187.5	73.5	101	72.9	146	215	78	17.2
	350	444						280	82	19.8
4"	350	469	199.8	85.8	101	97.6	159	280	82	22.7
	750	542	215.8					394	139	52.7

8. Dimensions

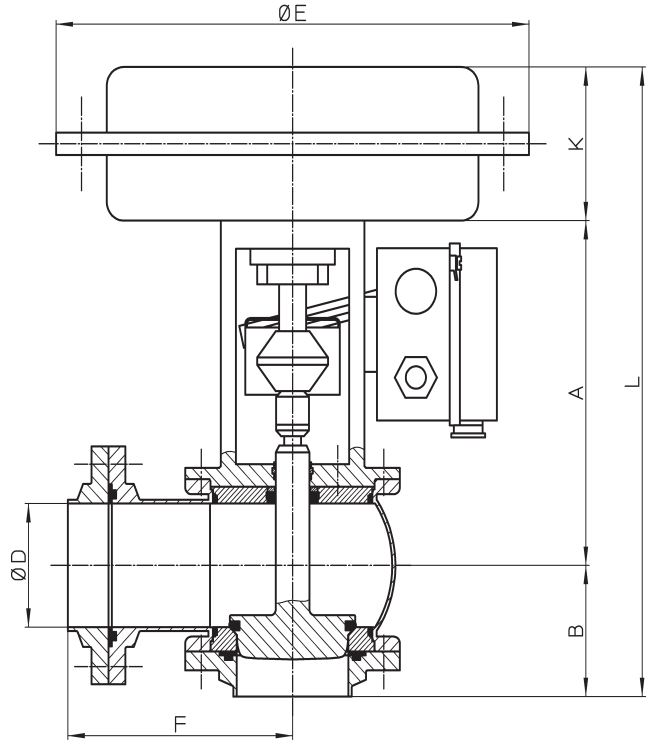
8.3. Montage régulateur de position selon NAMUR(dimensions métriques)



Dimensions en mm									
DN	surface de vérin(cm²)	L	A	B	ØD	F	ØE	K	poids en kg
25	120	282	163.5	49.5	26	98	168	69	9.9
	175	291					215	78	11.8
40	120	294	169.5	55.5	38	115	168	69	11.7
	175	303					215	78	13.1
	350	307					280	82	15.1
50	120	306	175.5	61.5	50	120	168	69	12.2
	175	315					215	78	13.7
	350	319					280	82	15.7
65	175	332	184.0	70.0	66	133	215	78	16.1
	350	336					280	82	17.4
80	175	347	191.5	77.5	81	146	215	78	17.2
	350	351					280	82	19.8
100	350	370	201.0	87.0	100	159	280	82	22.7
	750	443	217.0				394	139	52.7
125	350	402	215.5	104.5	125	184	280	82	23.9
	750	470	226.5				394	139	53.8
150	750	495	239.0	117.0	150	204	394	139	58.0

8. Baumaße

8.4. Montage régulateur de position selon NAMUR(dimensions pouce)



Dimensions en mm									
Zoll	surface de vérin(cm ²)	L	A	B	ØD	F	ØE	K	poids en kg
1"	120	278	161.6	47.6	22.2	98	168	69	9.9
	175	287					215	78	11.8
1,5"	120	291	167.9	53.9	34.9	115	168	69	11.7
	175	300					215	78	13.1
	350	304					280	82	15.1
2"	120	304	174.3	60.3	47.6	120	168	69	12.2
	175	313					215	78	13.7
	350	317					280	82	15.7
2,5"	175	326	181.2	67.2	60.3	133	215	78	16.1
	350	330					280	82	17.4
3"	175	339	187.5	73.5	72.9	146	215	78	17.2
	350	343					280	82	19.8
4"	350	368	199.8	85.8	97.6	159	280	82	22.7
	750	441	215.8				394	139	52.7

9. Technische Daten

9.1. Allgemeine Daten

- Pression de service admissible: DN 25 - DN 65 25 bar
DN 80 - DN 100 16 bar
DN 125 - DN 150 10 bar
- Rapport de réglage: 1: 50
- Version standard: Gehäuse 1.4404
Innenoberfläche poliert Ra
0,8 µm Außenoberfläche
matt
- Joints: EPDM (FPM, HNBR)
VMQ (Selon les pièces
détachées)
- Température max. de service: 135 °C EPDM, HNBR
*FPM, *VMQ
- Charge à courte durée: 140 °C EPDM, HNBR
*FPM, *VMQ
*(kein Dampf)
- Stelldruck des Membranantriebes: max. 6 bar
(min. 0,4 bar über max.
Stelldruck z.B. 0,6 - 3 bar
*min.: 3,4 bar)
- Grandeur de référence du régulateur
de position électropneumatique: 4 - 20 mA
- Température ambiante: 0 - 40 °C

9.2. Spécification de la qualité d'air comprimé

- **Qualité de l'air comprimé:** classe de qualité selon DIN
ISO 8573-1
- **Teneur en particules de corps solides:** **classe de qualité 3**
grandeur max. des
particules par m³ 10000 de
0,5 µm < d < 1,0 µm 500 de
1,0 µm < d < 5,0 µm
- **Teneur en eau:** **classe de qualité 3**
température max. du
point de rosée -20 °C.
Dans le cas d'installation
lors de températures
basses ou élevées,
prendre des mesures
supplémentaires afin de
réduire la pression du point
de rosée en conséquence.
- **Teneur en huile:** **classe de qualité 1**
max. 0,01 mg/m³

**L'huile appliquée doit être compatible avec les
matières d'élastomère polyuréthane.**

9. Données techniques

9.3. Valeurs kvs en m³/h, course de vanne, Ø siège de vanne (S)

DN 25		DN 40		DN 50		DN 65		DN 80		DN 100		DN 100		DN 125		DN 125		DN 150	
course: 15mm		course: 15mm		course: 15mm		course: 15mm		course: 15mm		course: 15mm		course: 30mm		course: 15mm		course: 30mm		course: 15mm	
kvs	S Ø	kvs	S Ø	kvs	S Ø	kvs	S Ø	kvs	S Ø	kvs	S Ø	kvs	S Ø	kvs	S Ø	kvs	S Ø	kvs	S Ø
10	26	25	38	40	50	63	66	100	81	160	100	160	100	160	100	250	125	400	150
6.3		16		25	38	40	50	63	66	100	81			100	81	160	100	250	125
4.0	13	10	26	16	38	25	38	40	50	63	66							160	100
2.5		6.3		10	26	16	38												
1,6*	8	4	13	6.3	26														
1.0		2.5																	
0,63*	4																		
0,4*																			
0,25*																			

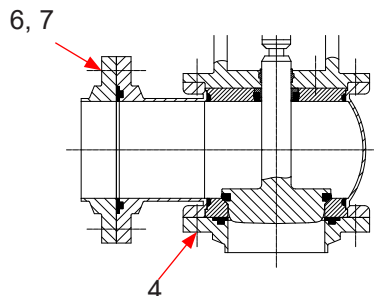
1"		1,5"		2"		2,5"		3"		4"		4"	
course: 15mm		course: 15mm		course: 15mm		course: 15mm		course: 15mm		course: 15mm		course: 30mm	
kvs	S Ø	kvs	S Ø	kvs	S Ø	kvs	S Ø	kvs	S Ø	kvs	S Ø	kvs	S Ø
10	26	25	38	40	50	63	66	80	72.9	160	100	160	100
6.3		16		25	38	40	50	63	66	100	81		
4.0	13	10	26	16	38	25	38	40	50	63	66		
2.5		6.3		10	26	16	38						
1,6*	8	4	13	6.3	26								
1.0		2.5											
0,63*	4												
0,4*													
0,25*													

* = étanchéité métallique

10. Instructions de démontage / montage

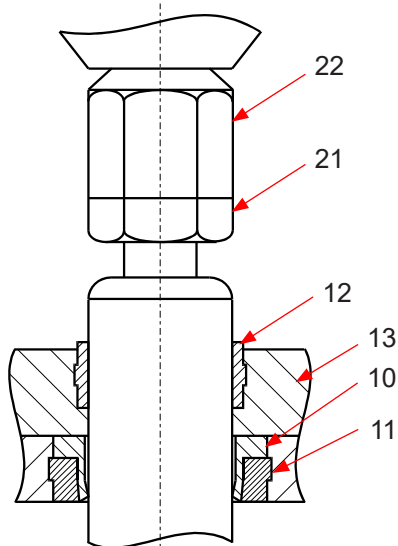
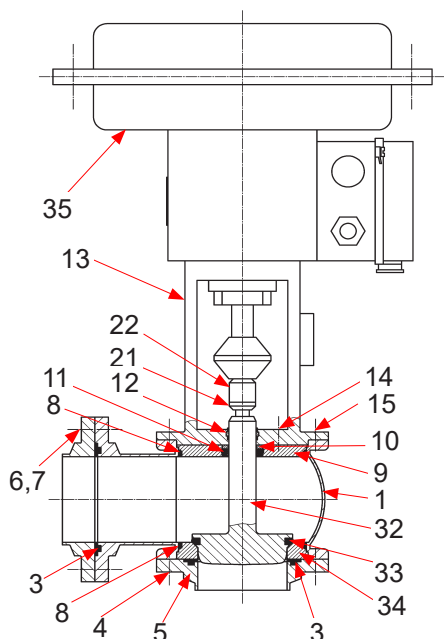
10.1. Démontage de la ligne

(Les n° de code se réfèrent aux listes des pièces détachées.)



1. Dépressuriser la ligne.
2. Fermer la ligne d'air pneumatique et la séparer.
3. Couper l'alimentation de commande et débrancher le câble de raccordement.
4. Démontez le détecteur de position (détecteur de proximité) (s'il existe).
5. Desserrer le raccord à bride (vis hexagonale (6) et écrous (7)).
6. Desserrer le raccord bride/corps (vis hexagonale (4)).
7. Sortir la vanne de régulation de la ligne.

10. Instructions de démontage / montage



10.2. Démontage de la vanne pour remplacement des pièces d'usure

1. Voir chapitre 10.1., 1 - 7.

Remarque : Pour servomoteur MFS taille 175cm² : commander le servomoteur avec de l'air

2. Desserrer les vis de fixation (15) et sortir l'intérieur de vanne avec régulateur de position et vérin à membrane du corps (1). Le cas échéant, visser deux vis (14) dans les trous filetés prévus dans l'étrier (13) et presser ainsi l'intérieur du corps.
3. Retirer le siège de vanne (34) du corps (1).
4. Desserrer l'accouplement entre la tige de vérin et l'arbre de vanne (32) et sortir ce dernier du couvercle de corps (9).
5. Desserrer la vis hexagonale (14) et enlever le couvercle de corps de l'étrier de vanne (13).
6. Enlever le joint de siège (33) de l'arbre de vanne (cône). Dévisser la tête d'accouplement (22) et le contre-écrou (21) de l'arbre de vanne (32).

Note: Observer la dimension d'ajustage entre le contre-écrou et l'arbre de vanne.

7. Enlever les joints de corps (8) du siège de vanne (34) et du couvercle de corps (9).
8. Enlever le joint d'arbre (10, 11) du couvercle de corps (9), retirer le guide (12) de l'étrier (13).
9. Enlever les joints de bride (3) du corps (1).

10.3. Démontage de la vanne pour modification de la valeur kvs et des caractéristiques

1. Voir chapitre 9.2., 1. - 4.
2. Si, en cas de modification de la valeur kvs, le vérin à membrane (32 / 35) doit également être remplacé, enlever le tuyau d'air, si nécessaire, et desserrer l'écrou avec marteau et burin et retirer le vérin.
3. Desserrer la tête d'accouplement (22) et le contre-écrou (21) de l'arbre de vanne (32).

(Note: Observer la dimension d'ajustage entre le contre-écrou et l'arbre de vanne).

10. Instructions de démontage / montage

10.4. Montage de la vanne et installation des pièces d'usure

ATTENTION!

Pour garantir un montage sans problèmes et une longue durée de vie de tous les pièces d'usure (joints, guides, etc.), les pièces doivent être légèrement graissées.

Pour le montage des pièces, ne pas utiliser d'outils tranchants (tournevis) ou autres pour garantir un bon fonctionnement.

1. Placer le joint de corps (8) sur le siège de vanne (34) et les presser ensemble dans le corps (1).
2. Insérer les joints de bride (3) dans la bride de corps (1) et la bride (5) et monter le corps (1) à l'aide des vis et des écrous (4, 6, 7) dans la ligne.

ATTENTION!

Assurer la bonne position du corps par rapport aux brides de ligne.

3. Placer le joint de siège (33) sur l'arbre de vanne (32).

ATTENTION!

Afin d'éviter l'inclusion de l'air dans la gorge, aérer la gorge avec un outil approprié.

4. Placer le joint d'arbre (10, 11) dans le couvercle de corps (9). Insérer le guide (12) dans l'étrier (13). Visser le couvercle (9) avec l'étrier de vanne (13).
5. Placer le joint de corps (8) sur le couvercle de corps (9).
6. Introduire l'arbre de vanne dans l'étrier de vanne (13). Visser le contre-écrou (21) et tête d'accouplement (22) sur le filet de l'arbre de vanne (32).

Respecter la cote de réglage !

Remarque !

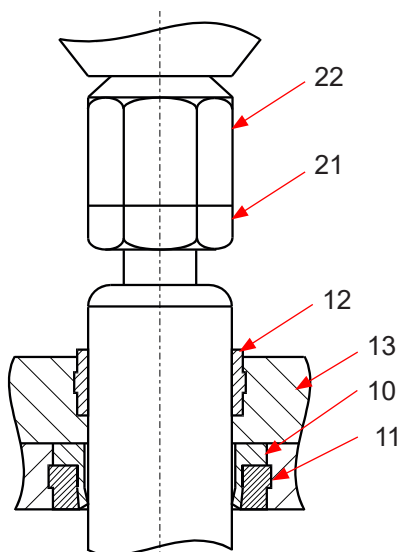
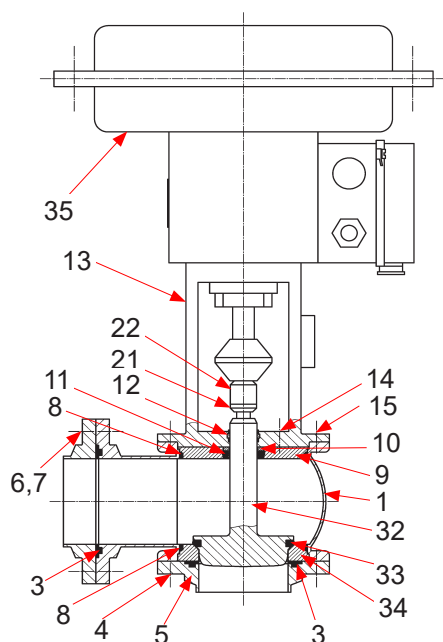
Pour l'actionneur MFS de taille 175cm², l'actionneur de commande doit avoir une pression d'air de 1,7 bar.

Connecter l'arbre de vanne et la tige du vérin à membrane à l'aide de l'accouplement. (En cas de montage NAMUR, pousser la broche d'entraînement du régulateur de position dans la plaque d'entraînement (23, 24)).

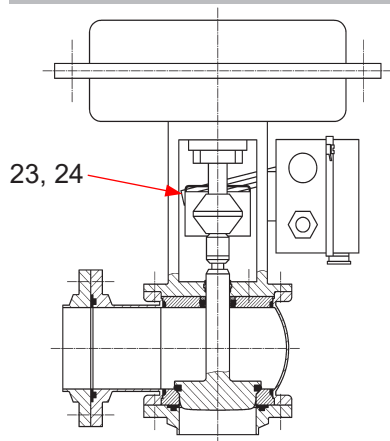
ATTENTION (POUR MONTAGE NAMUR)

La position du régulateur de position par rapport à la tôle de fixation est également différente quand le fonctionnement du vérin à membrane (MFS ou MFH) diffère.

7. Presser l'intérieur de vanne dans le corps et le visser à la bride de corps avec les vis hexagonales (15).
8. Serrer l'accouplement et la vis hexagonale (14).
9. Brancher les lignes électriques et pneumatiques.



NAMUR installation



10. Instructions de démontage / montage

10.5. Montage de la vanne pour modification de la valeur kvs resp. les caractéristiques

Liste de pièces de remplacement, **voir 11**.

1. Contrôler les pièces d'usure (joints et guides) pour s'assurer de leur bon fonctionnement.

Remplacer immédiatement les pièces défectueuses (désignations et n° de code, voir listes de pièces détachées, **10**).

2. Voir chapitre **9.4, 1. - 6**.
3. Placer le vérin à membrane (**35, 36**) sur l'étrier de vanne (**13**). Visser l'écrou sur le filet et le fixer avec marteau et burin.
4. Serrer l'accouplement.
5. En cas de montage NAMUR, rajuster la broche d'entraînement du régulateur de position (**23, 24**) si nécessaire.
6. Brancher les lignes électriques et pneumatiques et rajuster le régulateur de position si nécessaire.

11. Einbau Tellerdichtung

11.1. Montage manuel du joint de siège (33)

1. Pourvoir le joint de siège d'une couche mince de graisse avant l'installation.

La gorge pour le joint de siège ne doit pas être graissée.

2. Ensserrer l'arbre de vanne dans l'étai.

L'arbre de vanne ne doit pas être endommagé pendant ce procédé. Utiliser des mâchoires de protection.

3. Presser le joint légèrement graissé à quatre points avec le côté de le plus large en avant dans la gorge (**voir épure 1**).

4. Presser le joint avec l'outil de montage (tournevis avec rebord arrondi) à quatre côtés opposés **1-2, 3-4** dans la gorge (**voir épure 1**).

5. Procéder par étapes pour presser le joint dans la gorge. Travailler aux points opposés de la gorge. Veiller à une position égale du joint de siège.

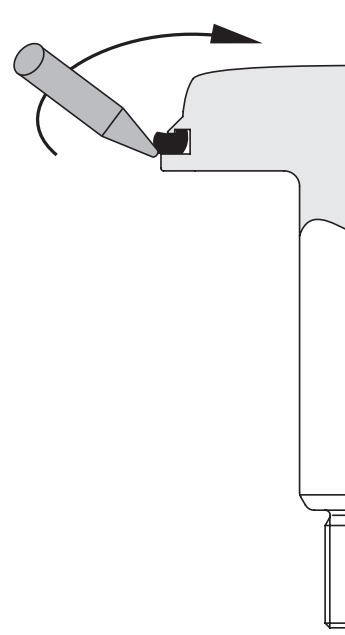
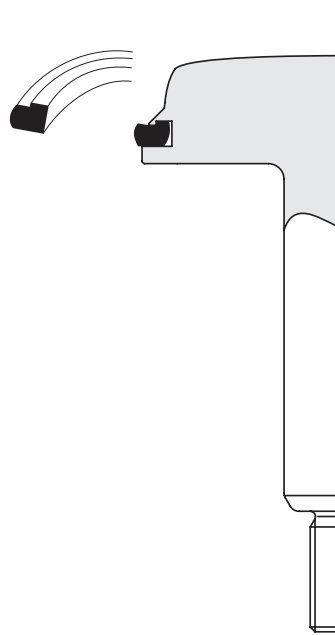
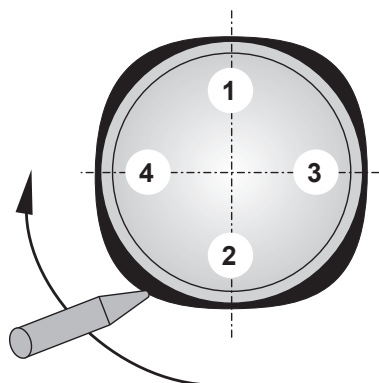
6. Après presser l'outil de montage entre l'épaule de joint et le paroi de la gorge et faire le tour tout autour de la gorge. Par cette mesure, le fond de la gorge est désaéré et l'épaule de joint enclenche (**voir épure 2**).

épure 1

épure 2

épaule de joint

profil de joint



12. Störungsbeistand

Anomalie	Mesure
Vanne n'est pas étanche.	Remplacer le joint de siège (33).
Fuite entre bride du corps et bride de l'étrier	Remplacer le joint de coprs (8).
Fuite à l'étrier	Remplacer le bouchon guide (12), le joint d'arbre (10) et le joint de siège (33).
Vérin à membrane types 3271 et 3277	
Echappement de l'air du vérin à membrane	Vérifier les raccordement à vis, remplacer la membrane roulante si nécessaire. Observer le manuel d'instructions du vérin à membrane. Voir: https://www.samsongroup.com/fr/produits/servomoteurs/
Régulateur de position type 4763	
Défaut dans la régulation des débits	Vérifier les raccordement et la pression d'air. Vérifier le raccordement électrique et le signal de réglage. Utiliser le manuel d'instructions du régulateur de position dans la recherche de défaut. Voir: https://www.samsongroup.com/fr/produits/accessoires/

13. Listes de pièces détachées

(voir annexe)

Vous trouverez ci-joint les dessins des pièces de rechange avec listes correspondantes contenant le numéro de référence des pièces de rechange pour les différentes versions et tailles de vanne.

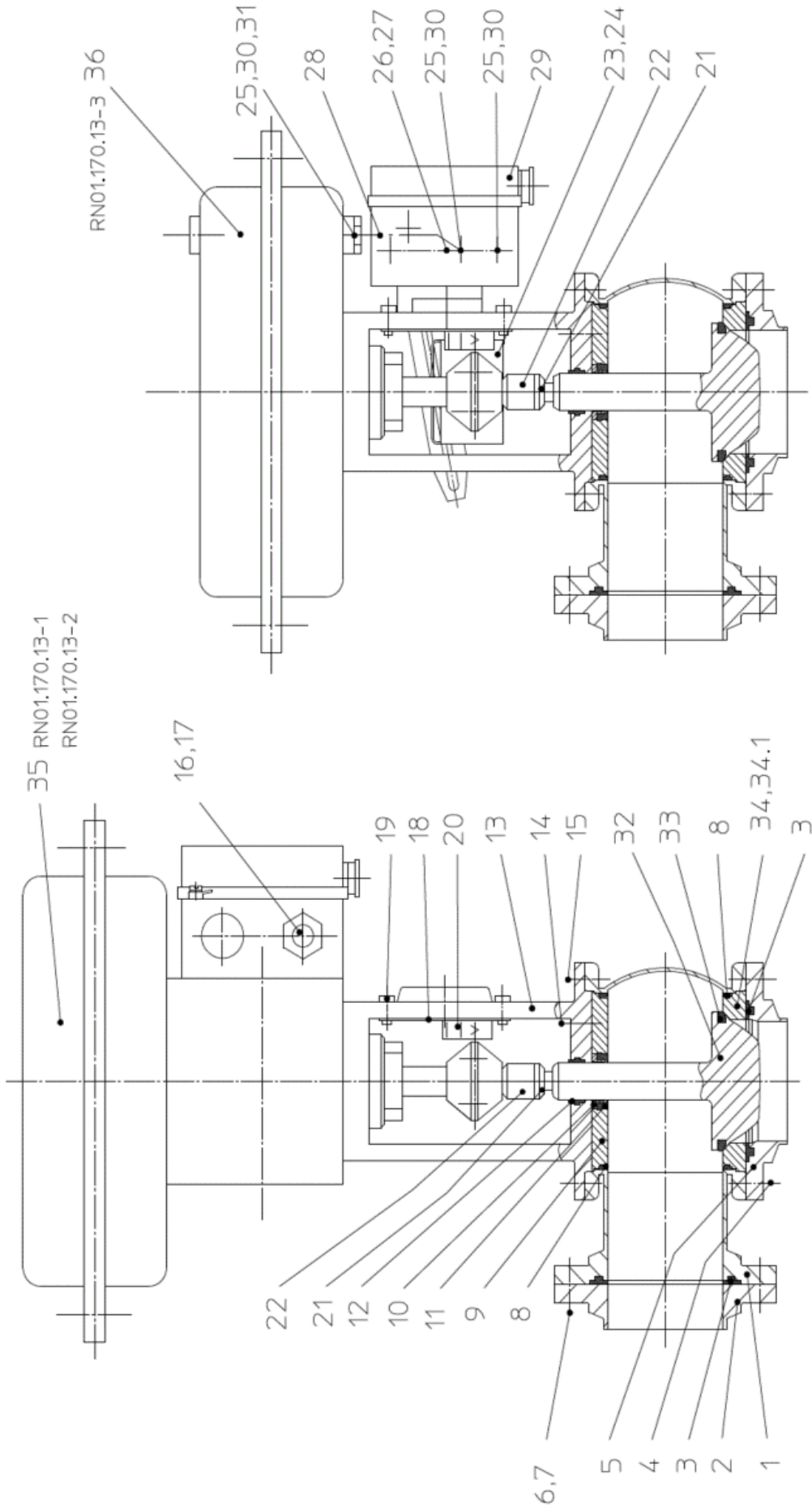
Veuillez indiquer les informations suivantes lors de votre commande:

- le nombre des pièces demandées
- le numéro de référence
- la désignation.

sous réserve de modification

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Spare parts list:			Date: 22.06.1510.01.23			SPX FLOW		
Modulating valve RG4 - DN 25 - DN 150			Name: Trytko Shreshth					
Diaphragm actuator MAT 3271 or MAT 3277 (Spring: closed or open) - 120, 175, 350, 750cm ²			Approved by: Waltenb.					
Digital electro-pneumatic positioner						Page 1 of 18		
Flow characteristic: linear or equal percentage			Date:			RN 01.170.0		
			Name:					
			Approved by:					



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Spare parts list:										SPX FLOW		
Modulating valve RG4 - DN 25												
Diaphragm actuator MAT 3271 or MAT 3277 (Spring: closed or open) - 120, 175, 350, 750cm ²										Page 2 of 18		
Digital electro-pneumatic positioner												
Flow characteristic: linear or equal percentage										RN 01.170.0		
Item	Quantity	Description	Material	Part no.	Item	Quantity	Description	Material	Part no.			
1	1	Housing	RG41-1FN1	H158109	22	1	Coupling top small	1.4301	H162484			
2	1	Flange	RG42-12FN1		23	1	Coupling top big	1.4301	H162485			
3	2	Seal	FGX1	H158102	24	1	Driving plate complete	1.4301	H162486			
			FGN1	H77280	25	3	Angle bracket	1.4301				
			FGN1	H172130	26	1	Elbow union	G1/8" Ø6mm slewable	H208825			
			FGN1	H77279	27	1	Hex. screw M8x70	DIN EN 24014	H78803			
			FGN1	H77278	28	1	Washer	DIN 125 A l=8,4	H79594			
4	4	Hex. screw M8x20	DIN EN 24017	H78776	29	1	Hose	6x1x500	H16541			
5	1	Flange	FNX1	H158095			Electro-pneumatic positioner IP763	without accessory: lever l, spring l (stroke 15mm)	H66919			
6	4	Hex. screw M8x28	DIN EN 24017	H78778	30	3	Red. nipple G1/4" G1/8"	for actuator 120-175	H17018			
7	4	Hex. nut M8	DIN EN 24032	H79281			Red. nipple G1/4" G1/8"	for actuator 350-750	H17018			
			Ø45	H77439	31	1	Red. nipple G3/4" G1/8"	for actuator 350-750	H17019			
8	2	Housing seal	Ø45	H170017				kvs = 0,25 m³/h	H160658			
			Ø45	H77438				kvs = 0,4 m³/h	H160666			
9	1	Housing cover		H156869				kvs = 0,6 m³/h	H160668			
10	1	Shaft seal	Turcon MF6	H323082				kvs = 1,0 m³/h	H160669			
				H77442				kvs = 1,6 m³/h	H159401			
11	1	Seat seal	HNBR	H170176				kvs = 2,5 m³/h				
			FPM	H77441				kvs = 4,0 m³/h				
			VMQ	H77440				kvs = 6,3 m³/h				
12	1	Bushing 20x9	PTFE + 25% carbon	H207154				kvs = 10 m³/h				
13	1	Yoke	1.4308	H157564								
14	1	Hex. screw M6x16	A2-70	H78751								
15	4	Hex. screw M8x16	A2-70	H78772								
16	1	Elbow union	G1/8" Ø6mm slewable	H208825								
17	1	Red. nipple G1/4" G1/8"	for actuator 120-750	H17018								
18	1	Mounting plate for stroke	MS58	H161763								
19	2	Pan head screw M5x12	DIN EN ISO 1580	H127391								
20	1	Stroke indicator	Stroke: 15mm	H161761								
21	1	Counternut	M10x1 , Stroke: 15mm	H162483								
								</				

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Spare parts list:										Date: 22.06.15		10.01.23						SPX FLOW			
Diaphragm actuator MAT 3271 or MAT 3277 (Spring: closed or open) - 120, 175, 350, 750cm² Digital electro-pneumatic positioner Flow characteristic: linear or equal percentage										Name: Trytko		Shreshth									
										Approved by:				Waltenb.							
										Date:						Page 3 of 18					
										Name:						RN 01.170.0					
										Approved by:											

Spare parts list:										SPX FLOW			
Modulating valve RG4 - DN 40													
Diaphragm actuator MAT 3271 or MAT 3277 (Spring: closed or open) - 120, 175, 350, 750cm²													
Digital electro-pneumatic positioner													
Flow characteristic: linear or equal percentage													
Item	Quantity	Description	Material	Part no.	Item	Quantity	Description	Material	Part no.				
1	1	Housing	1.4404	H158110	22	1	Coupling top small	1.4301	H162484				
2	1	Flange	1.4404	H208283	23	1	Coupling top big	1.4301	H162485				
3	2	Seal	1.4404	H158103	24	1	Driving plate complete	1.4301	H162486				
			EPDM	H77292	25	3	Angle bracket	1.4301	H162487				
			HNBR	H172131	26	1	G1/8" Ø6mm slewable		H208825				
			FPM	H77291	27	1	DIN EN 24014	A2-70	H78803				
			VMQ	H77290	28	1	DIN 125 A l=8,4	A2-70	H79594				
4	4	Hex. screw M8x20	A2-70	H78776	29	1	Hose 6x1x500		H16541				
5	1	Flange	1.4404	H158096	30	3	Electro-pneumatic positioner IP763	Aluminium die casted	H66919				
6	4	Hex. screw M8x28	A2-70	H78778	31	2	without accessory: lever l, spring l (stroke 15mm)						
7	4	Hex. nut M8	A2	H79281			for actuator 120-175	MS58	H17018				
8	2	Housing seal	EPDM	H77464			for actuator 350-750	MS58	H17018				
9	1	Housing cover	HNBR	H170018			for actuator 350-750	MS58	H17019				
10	1	Shaft seal	FPM	H77463			kvs = 0,63 m³/h	1.4404	H160668				
			1.4404	H156409			kvs = 1,0 m³/h	1.4404	H160669				
			Turcon MF6	H323082			kvs = 1,6 m³/h	1.4404	H159401				
			EPDM	H77442			kvs = 2,5 m³/h						
11	1	Seat seal	HNBR	H170176			kvs = 4,0 m³/h						
			FPM	H77441			kvs = 6,3 m³/h						
			VMQ	H77440			kvs = 10 m³/h						
12	1	Bushing 20x9	PTFE + 25% carbon	H207154			kvs = 16 m³/h	1.4404	H169153				
13	1	Yoke	1.4308	H157565			kvs = 25 m³/h	1.4404	H175757				
14	1	Hex. screw M8x16	A2-70	H78772	32		kvs = 0,63 m³/h	1.4404	H179617				
15	4	Hex. screw M8x16	A2-70	H78772			kvs = 1,0 m³/h	1.4404	H179618				
16	1	Elbow union	A2-70	H208825			kvs = 1,6 m³/h	1.4404	H179620				
17	1	Red. nipple G1/4" G1/8" for actuator 120-750	MS58	H17018			kvs = 2,5 m³/h	1.4404	H159476				
18	1	Mounting plate for stroke	1.4301	H161763			kvs = 4,0 m³/h	1.4404	H159477				
19	2	Pan head screw M5x12	1.4301	H127391			kvs = 6,3 m³/h	1.4404	H159478				
20	1	Stroke indicator	1.4301	H161761			kvs = 10 m³/h	1.4404	H159479				
21	1	Counternut	1.4301	H162483			kvs = 16 m³/h	1.4404	H159480				
			1.4301				kvs = 25 m³/h	1.4404	H159481				

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Spare parts list:										SPX FLOW		
Modulating valve RG4 - DN 40												
Diaphragm actuator MAT 3271 or MAT 3277 (Spring: closed or open) - 120, 175, 350, 750cm²												
Digital electro-pneumatic positioner												
Flow characteristic: linear or equal percentage												
Date: 22.06.15 10.01.23												
Name: Trytko Shreshth												
Approved by: Waltenb.												
Date:										Page 5 of 18		
Name:										RN 01.170.0		
Approved by:												
Item	Quantity	Description	Material	Part no.	Item	Quantity	Description	Material	Part no.			
32	1	Shaft - equal percentage G*	kvs = 0.63 m³/h	H159244	34	1	Valve seat metal sealing	1.4404	H126763			
			kvs = 1.0 m³/h	H159243								
			kvs = 1.6 m³/h	H159140								
			kvs = 2.5 m³/h	H166601								
			kvs = 4.0 m³/h	H326212								
			kvs = 6.3 m³/h	H207739								
			kvs = 10 m³/h	H207038								
			kvs = 16 m³/h	H331585								
			kvs = 25 m³/h	H163545								
			kvs = 0.63 m³/h	H312777								
33	1	Shaft - equal percentage GD*	kvs = 1.0 m³/h	H208609	34.1	1	Valve seat with punched cage (noise reduction)	1.4404	H144862			
			kvs = 1.6 m³/h	H311745								
			kvs = 2.5 m³/h	H159141								
			kvs = 4.0 m³/h	H159142								
			kvs = 6.3 m³/h	H159143								
			kvs = 10 m³/h	H159144								
			kvs = 16 m³/h	H159145								
			kvs = 25 m³/h	H159146								
			kvs = 0.63 m³/h - kvs = 1.0 m³/h	H77445								
			kvs = 1.6 m³/h - kvs = 2.5 m³/h	H172173								
34	1	Seat seal	kvs = 4.0 m³/h - kvs = 6.3 m³/h	H77444	35	1	Pneumatic actuator MAT 3277 + TROVIS3730-1, IP3730-X, IP3725 see RN 01.170.13-1, RN 01.170.13-2	1.4404	H141520			
			kvs = 10 m³/h	H77443								
			kvs = 16 m³/h	H77470								
			kvs = 25 m³/h	H172175								
				H77469								
				H77468								
35	1	Seat seal	kvs = 16 m³/h	H77469	36	1	Pneumatic actuator MAT 3271 + IP763 see RN 01.170.13-3	1.4404	H148260			
			kvs = 25 m³/h	H77468								

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Spare parts list:										SPX FLOW		
Modulating valve RG4 - DN 50												
Diaphragm actuator MAT 3271 or MAT 3277 (Spring: closed or open) - 120, 175, 350, 750cm²												
Digital electro-pneumatic positioner												
Flow characteristic: linear or equal percentage												
Item	Quantity	Description	Material	Part no.	Item	Quantity	Description	Material	Part no.			
1	1	Housing	1.4404	H158111	22	1	Coupling top small	1.4301	H162484			
2	1	Flange	1.4404	H328942	23	1	Coupling top big	1.4301	H162485			
3	2	Seal	1.4404	H158104	24	1	Driving plate complete	1.4301	H162486			
			EPDM	H77303	25	3	Angle bracket	1.4301	H162487			
			HNBR	H172132	26	1	G1/8" Ø6mm slewable		H208825			
			FPM	H77302	27	1	DIN EN 24014		H78803			
			VMQ	H77301	28	1	DIN 125 A l=8,4		H79594			
4	4	Hex. screw M8x20	A2-70	H78776	29	1	Hose 6x1x500		H16541			
5	1	Flange	1.4404	H158097	30	3	Electro-pneumatic positioner IP763	Aluminium die casted	H66919			
6	4	Hex. screw M8x28	A2-70	H78778	31	2	without accessory: lever l, spring l (stroke 15mm)					
7	4	Hex. nut M8	A2	H79281		1	Red. nipple G1/4" G1/8" for actuator 120-175	MS58	H17018			
8	2	Housing seal	EPDM	H77488		1	Red. nipple G1/4" G1/8" for actuator 350-750	MS58	H17018			
9	1	Housing cover	HNBR	H168714		1	Red. nipple G3/4" G1/8" for actuator 350-750	MS58	H17019			
10	1	Shaft seal	FPM	H77487			kvs = 4,0 m³/h					
			1.4404	H148194			kvs = 6,3 m³/h					
			Turcon MF6	H323082		1	kvs = 10 m³/h					
11	1	Seat seal	EPDM	H77442			kvs = 16 m³/h	1.4404	H169153			
			HNBR	H170176			kvs = 25 m³/h	1.4404	H175757			
			FPM	H77441			kvs = 40 m³/h	1.4404	H176315			
			VMQ	H77440			kvs = 4,0 m³/h	1.4404	H159477			
12	1	Bushing 20x9	PTFE + 25% carbon	H207154			kvs = 6,3 m³/h	1.4404	H159478			
13	1	Yoke	1.4308	H157567		1	kvs = 10 m³/h	1.4404	H159479			
14	1	Hex. screw M8x16	A2-70	H78772			kvs = 16 m³/h	1.4404	H159480			
15	4	Hex. screw M8x16	A2-70	H78772			kvs = 25 m³/h	1.4404	H149481			
16	1	Elbow union		H208825			kvs = 40 m³/h	1.4404	H159482			
17	1	Red. nipple G1/4" G1/8" for actuator 120-750	MS58	H17018			kvs = 4,0 m³/h	1.4404	H326212			
18	1	Mounting plate for stroke	1.4301	H161763		1	kvs = 6,3 m³/h	1.4404	H207739			
19	2	Pan head screw M5x12	1.4301	H127391			kvs = 10 m³/h	1.4404	H207038			
20	1	Stroke indicator	1.4301	H161761			kvs = 16 m³/h	1.4404	H331585			
21	1	Counternut	1.4301	H162483			kvs = 25 m³/h	1.4404	H163545			
			1.4301				kvs = 40 m³/h	1.4404	H333827			

Spare parts list:									
Modulating valve RG4 - DN 50									
Diaphragm actuator MAT 3271 or MAT 3277 (Spring: closed or open) - 120, 175, 350, 750cm²									
Digital electro-pneumatic positioner									
Flow characteristic: linear or equal percentage									
Item	Quantity	Description	Material	Part no.	Item	Quantity	Description	Material	Part no.
32	1	Shaft - equal percentage GD*	kvs = 4,0 m³/h	H159142	34.1	1	Valve seat with punched cage (noise reduction)	kvs = 4,0 m³/h	1.4404
			kvs = 6,3 m³/h	H159143				kvs = 6,3 m³/h	
			kvs = 10 m³/h	H159144				kvs = 10 m³/h	
			kvs = 16 m³/h	H159145				kvs = 16 m³/h	
			kvs = 25 m³/h	H159146				kvs = 25 m³/h	
33	1	Seat seal	1.4404	H159147	35	1	Pneumatic actuator MAT 3277 + TROVIS3730-1, IP3730-X, IP3725 see RN 01.170.13-1, RN 01.170.13-2	1.4404	H144859
			EPDM	H77445					
			HNBR	H172173					
			FPM	H77444					
			VMQ	H77443					
33	1	Seat seal	EPDM	H77470			Item 3, 8, 10, 11, 12, 33 available as complete seal kits only		
			HNBR	H172175					
			FPM	H77469					
			VMQ	H77468					
			EPDM	H77494					
34	1	Seat seal	HNBR	H165709		1	Seal kit	EPDM	H174410
			FPM	H77493					
			VMQ	H77492					
34	1	Valve seat metal sealing	kvs = 4,0 m³/h			*	LD* = linear flow characteristic, soft sealing		
			kvs = 6,3 m³/h						
			kvs = 10 m³/h						
			kvs = 16 m³/h						
			kvs = 25 m³/h						
34	1	Valve seat	kvs = 40 m³/h	H202927		*	GD* = equal percentage flow characteristic, soft sealing		
			kvs = 4,0 m³/h						
			kvs = 6,3 m³/h	H33481					
			kvs = 10 m³/h						
			kvs = 16 m³/h	H33482					
			kvs = 25 m³/h						
			kvs = 40 m³/h	H33483					
Date: 22.06.15 10.01.23									
Name: Trytko Shreshth									
Approved by: Waltenb.									
Date:									
Name:									
Approved by:									
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RN 01.170.0									

Spare parts list:										SPX FLOW		
Modulating valve RG4 - DN 65												
Diaphragm actuator MAT 3271 or MAT 3277 (Spring: closed or open) - 120, 175, 350, 750cm²												
Digital electro-pneumatic positioner												
Flow characteristic: linear or equal percentage												
Date:										22.06.15		
Name:										Trytko		
Approved by:										Shreshth		
										Waltenb.		
Date:												
Name:												
Approved by:												
Page										9 of 18		
RN 01.170.0												
Item	Quantity	Description	Material	Part no.	Item	Quantity	Description	Material	Part no.			
1	1	Housing	1.4404	H158112	22	1	Coupling top small	1.4301	H162484			
2	1	Flange	1.4404	H331852	1	1	Coupling top big	1.4301	H162485			
3	2	Seal	1.4404	H158105	23	1	Driving plate complete	1.4301	H162486			
			EPDM	H77314	24	1	Angle bracket	1.4301	H162487			
			HNBR	H172133	25	3	Elbow union	G1/8" Ø6mm slewable	H208825			
			FPM	H77313	26	1	Hex. screw M8x70	DIN EN 24014	H78803			
			VMQ	H77312	27	1	Washer	DIN 125 A l=8,4	H79594			
4	4	Hex. screw M8x20	A2-70	H78776	28	1	Hose	6x1x500	H16541			
5	1	Flange	1.4404	H158098	29	1	Electro-pneumatic positioner IP763	Aluminium die casted	H66919			
6	4	Hex. screw M8x28	A2-70	H78778	30	3	Red. nipple G1/4" G1/8"	without accessory: lever l, spring l (stroke 15mm)	H17018			
7	4	Hex. nut M8	A2	H79281	2	2	Red. nipple G1/4" G1/8"	for actuator 120-175	H17018			
8	2	Housing seal	EPDM	H77512	31	1	Red. nipple G3/4" G1/8"	for actuator 350-750	H17019			
9	1	Housing cover	HNBR	H168759	1	1	Shaft - linear L *	kvs = 16 m³/h	H169153			
10	1	Shaft seal	FPM	H77511				kvs = 25 m³/h	H175757			
			1.4404	H151968				kvs = 40 m³/h	H176315			
			Turcon MF6	H323082				kvs = 63 m³/h				
11	1	Seat seal	EPDM	H77442	1	1	Shaft - linear LD*	kvs = 16 m³/h	H159480			
			HNBR	H170176				kvs = 25 m³/h	H159481			
			FPM	H77441				kvs = 40 m³/h	H159482			
			VMQ	H77440				kvs = 63 m³/h	H159483			
12	1	Bushing 20x9	PTFE + 25% carbon	H207154	1	1	Shaft - equal percentage	kvs = 16 m³/h	H331585			
13	1	Yoke	1.4308	H157568				kvs = 25 m³/h	H163545			
14	1	Hex. screw M8x16	A2-70	H78772				kvs = 40 m³/h	H333827			
15	4	Hex. screw M8x16	A2-70	H78772				kvs = 63 m³/h	H333843			
16	1	Elbow union	MS58	H208825	1	1	Shaft - equal percentage	kvs = 16 m³/h	H159145			
17	1	Red. nipple G1/4" G1/8"	1.4301	H17018				kvs = 25 m³/h	H159146			
18	1	Mounting plate for stroke	1.4301	H161763				kvs = 40 m³/h	H159147			
19	2	Pan head screw M5x12	1.4301	H127391				kvs = 63 m³/h	H159148			
20	1	Stroke indicator	1.4301	H161761								
21	1	Counternut	1.4301	H162483								

Spare parts list:										SPX FLOW						
Modulating valve RG4 - DN 80																
Diaphragm actuator MAT 3271 or MAT 3277 (Spring: closed or open) - 120, 175, 350, 750cm²																
Digital electro-pneumatic positioner																
Flow characteristic: linear or equal percentage																
										Date:	22.06.15	10.01.23				
										Name:	Trytko	Shreshth				
										Approved by:		Waltenb.				
										Date:			Page	11	of	18
										Name:			RN 01.170.0			
										Approved by:						
Item	Quantity	Description	Material	Part no.	Item	Quantity	Description	Material	Part no.							
1	1	Housing	1.4404	H158113	22	1	Coupling top small	1.4301	H162484							
2	1	Flange	1.4404	H168919	1	1	Coupling top big	1.4301	H162485							
			1.4404	H158106	23	1	Driving plate complete	1.4301	H162486							
3	2	Seal	EPDM	H77325	24	1	Angle bracket	1.4301	H162487							
			HNBR	H172134	25	3	Elbow union	G1/8" Ø6mm slewable	H208825							
			FPM	H77324	26	1	Hex. screw M8x70	DIN EN 24014	H78803							
			VMQ	H77323	27	1	Washer	DIN 125 A I=8,4	H79594							
4	4	Hex. screw M10x20	A2-70	H78809	28	1	Hose	6x1x500	H16541							
5	1	Flange	1.4404	H18844	29	1	Electro-pneumatic positioner IP763	Aluminium die without accessory: lever I, spring I (stroke 15mm)	H66919							
6	8	Hex. screw M8x28	A2-70	H78778	30	3	Red. nipple G1/4" G1/8"	for actuator 120-175	H17018							
7	8	Hex. nut M8	A2	H79281		2	Red. nipple G1/4" G1/8"	for actuator 350-750	H17018							
8	2	Housing seal	EPDM	H77543	31	1	Red. nipple G3/4" G1/8"	for actuator 350-750	H17019							
			HNBR	H170075				kvs = 16 m³/h	H169153							
9	1	Housing cover	FPM	H77542				kvs = 25 m³/h	H175757							
10	1	Shaft seal	1.4404	H156593	1	1	Shaft - linear L *	kvs = 40 m³/h	H176315							
			Turcon MF6	H323082				kvs = 63 m³/h								
			EPDM	H77442				kvs = 100 m³/h								
11	1	Seat seal	HNBR	H170176				kvs = 16 m³/h	H159480							
			FPM	H77441				kvs = 25 m³/h	H159481							
			VMQ	H77440				kvs = 40 m³/h	H159482							
12	1	Bushing 20x9	PTFE + 25% carbon	H207154	1	1	Shaft - linear LD*	kvs = 63 m³/h	H159483							
13	1	Yoke	1.4308	H159379				kvs = 100 m³/h	H159309							
14	1	Hex. screw M8x16	A2-70	H78772				kvs = 16 m³/h	H331585							
15	4	Hex. screw M10x16	A2-70	H78806				kvs = 25 m³/h	H163545							
16	1	Elbow union		H208825				kvs = 40 m³/h	H333827							
17	1	Red. nipple G1/4" G1/8"	MS58	H17018				kvs = 63 m³/h	H333843							
18	1	Mounting plate for stroke	1.4301	H161763				kvs = 100 m³/h								
19	2	Pan head screw M5x12	1.4301	H127391												
20	1	Stroke indicator	1.4301	H161761												
21	1	Counternut	1.4301	H162483												

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Spare parts list:

Modulating valve RG4 - DN 80

Diaphragm actuator MAT 3271 or MAT 3277 (Spring: closed or open) - 120, 175, 350, 750cm²

Digital electro-pneumatic positioner

Flow characteristic: linear or equal percentage

Spare parts list:						
Modulating valve RG4 - DN 80						
Diaphragm actuator MAT 3271 or MAT 3277 (Spring: closed or open) - 120, 175, 350, 750cm²						
Digital electro-pneumatic positioner						
Flow characteristic: linear or equal percentage						
Item	Quantity	Description	Material	Part no.	Item	Quantity
32	1	Shaft - equal percentage GD*	kvs = 16 m³/h	1.4404	H159145	34.1
			kvs = 25 m³/h	1.4404	H159146	
			kvs = 40 m³/h	1.4404	H159147	
			kvs = 63 m³/h	1.4404	H159148	
			kvs = 100 m³/h	1.4404	H159149	
	1	Seat seal	kvs = 16 m³/h	EPDM	H77470	35
			kvs = 25 m³/h	HNBR	H172175	
				FPM	H77469	
				VMQ	H77468	
				EPDM	H77494	
33	1	Seat seal	kvs = 40 m³/h	HNBR	H165709	
				FPM	H77493	
				VMQ	H77492	
				EPDM	H77518	
				HNBR	H172178	
	1	Seat seal	kvs = 63 m³/h	FPM	H77517	
				VMQ	H77516	
				EPDM	H77549	
				HNBR	H172180	
				FPM	H77548	
	1	Seat seal	kvs = 100 m³/h	VMQ	H77547	
34	1	Valve seat metal sealing	kvs = 16 m³/h			
			kvs = 25 m³/h			
			kvs = 40 m³/h			
			kvs = 63 m³/h			
			kvs = 100 m³/h			
	1	Valve seat	kvs = 16 m³/h	1.4404	H105569	
			kvs = 25 m³/h			
			kvs = 40 m³/h	1.4404	H33487	
			kvs = 63 m³/h	1.4404	H33488	
			kvs = 100 m³/h	1.4404	H33489	

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Spare parts list:										SPX FLOW				
Modulating valve RG4 - DN 100										Date:	22.06.15	10.01.23		
Diaphragm actuator MAT 3271 or MAT 3277 (Spring: closed or open) - 120, 175, 350, 750cm²										Name:	Trytko	Shreshth		
										Approved by:				
Digital electro-pneumatic positioner										Date:				Page 13 of 18
Flow characteristic: linear or equal percentage										Name:				RN 01.170.0
										Approved by:				
Item	Quantity	Description	Material	Part no.	Item	Quantity	Description	Material	Part no.					
1	1	Housing	1.4404	H158114	16	1	Elbow union	G1/8" Ø6mm slewable	H208825					
			1.4404		17	1	Red. nipple G1/4" G1/8" for actuator 120-750	MS58	H17018					
2	1	Flange	1.4404	H158107	18	1	Mounting plate for stroke	1.4301	H161763					
3	2	Seal	EPDM	H77339	19	2	Pan head screw M5x12	DIN EN ISO 1580	H127391					
			HNBR	H172135	20	1	Stroke indicator	Stroke: 15mm	H161761					
			FPM	H77338				Stroke: 30mm	H161762					
4	4	Hex. screw M10x20	VMQ	H77337	21	1	Counter nut	1.4301	H162483					
5	1	Flange	A2-70	H78809	22	1	Coupling top small for actuator 120	1.4301	H205881					
6	8	Hex. screw M8x28	1.4404	H18846		1	Coupling top big for actuator 175-750	1.4301	H162484					
7	8	Hex. nut M8	A2-70	H78778		2	Coupling piece	1.4301	H205827					
8	2	Housing seal	EPDM	H77583	23	1	Driving plate complete	1.4301	H162486					
			HNBR	H170074	24	1	Angle bracket for kvs 16-160	1.4301	H162487					
			FPM	H77582	25	3	Elbow union G1/8" Ø6mm slewable		H208825					
9	1	Housing cover	1.4404	H159888	26	1	Hex. screw M8x70	A2-70	H78803					
10	1	Shaft seal	Turcon MF6	H319974	27	1	Washer	A2-70	H79594					
						28	1	Hose 6x1x500		H16541				
11	1	Seat seal		H200020	29	1	Electro-pneumatic positioner IP763	without accessory: lever l, spring l (stroke 15mm)	Aluminium die casted					
				H77442			Electro-pneumatic positioner IP763	without accessory: lever l, spring l (stroke 30mm)						
				H170176										
				H77441										
				H77440										
12	1	Seat seal		H77467	30	3	Red. nipple G1/4" G1/8" for actuator 120-175	MS58	H17018					
				H176676	2	Red. nipple G1/4" G1/8" for actuator 350-750	MS58	H17018						
				H77466	31	1	Red. nipple G3/4" G1/8" for actuator 350-750	MS58	H17019					
				H77465			kvs = 40m³/h	1.4404						
				H207154			kvs = 63 m³/h	1.4404						
13	1	Bushing 20x9	PTFE + 25% carbon	H207154	32	1	Shaft - linear L *	1.4404						
				H334067				kvs = 100 m³/h	1.4404					
14	1	Bushing 30x9	1.4308	H157572				1.4404						
				H319975			kvs = 160 m³/h Stroke: 15mm	1.4404						
15	8	Yoke	A2-70	H157572				1.4404						
15	1	Hex. screw M8x16	A2-70	H78772										
				H78806			kvs = 160 m³/h Stroke: 30mm							

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Spare parts list:										SPX FLOW		
Modulating valve RG4 - DN 100										Date:	22.06.15	10.01.23
Diaphragm actuator MAT 3271 or MAT 3277 (Spring: closed or open) - 120, 175, 350, 750cm ²										Name:	Trytko	Shreshth
										Approved by:		
Digital electro-pneumatic positioner										Date:		
Flow characteristic: linear or equal percentage										Name:		
										Approved by:		
										Page 14 of 18		
										RN 01.170.0		
Item	Quantity	Description	Material	Part no.	Item	Quantity	Description	Material	Part no.			
32	1	Shaft - linear LD*	kvs = 40m³/h	H159482	34	1	Valve seat metal sealing	kvs = 40m³/h	H172576			
			kvs = 63 m³/h	H159483				kvs = 63 m³/h				
			kvs = 100 m³/h	H159309				kvs = 100 m³/h				
			kvs = 160 m³/h Stroke: 15mm	H167867				kvs = 160 m³/h Stroke: 15mm				
			kvs = 160 m³/h Stroke: 30mm	H159484				kvs = 160 m³/h Stroke: 30mm				
	1	Shaft - equal percentage G*	kvs = 40m³/h		34	1	Valve seat	kvs = 40m³/h	1.4404	H172576		
			kvs = 63 m³/h					kvs = 63 m³/h	1.4404	H33490		
			kvs = 100 m³/h	H176760				kvs = 100 m³/h	1.4404	H125799		
			kvs = 160 m³/h Stroke: 15mm	H175802				kvs = 160 m³/h Stroke: 15mm	1.4404	H125798		
			kvs = 160 m³/h Stroke: 30mm					kvs = 160 m³/h Stroke: 30mm	1.4404			
1	Shaft - equal percentage GD*	kvs = 40m³/h	H159147	34.1	1	Valve seat with punched cage (noise reduction)	kvs = 40m³/h	1.4404	H330662			
		kvs = 63 m³/h	H159148				kvs = 63 m³/h	1.4404	H149005			
		kvs = 100 m³/h	H159149				kvs = 100 m³/h	1.4404	H141526			
		kvs = 160 m³/h Stroke: 15mm	H175422				kvs = 160 m³/h Stroke: 15mm	1.4404				
		kvs = 160 m³/h Stroke: 30mm	H159151				kvs = 160 m³/h Stroke: 30mm	1.4404	H152311			
1	Seat seal	kvs = 40 m³/h	EPDM	H77494	35	1	Pneumatic actuator MAT 3277 + TROVIS3730-1, IP3730-X, IP3725 see RN 01.170.13-1, RN 01.170.13-2					
			HNBR	H165709								
			FPM	H77493								
			VMQ	H77492								
			EPDM	H77518								
1	Seat seal	kvs = 63 m³/h	HNBR	H172178	36	1	Pneumatic actuator MAT 3271 + IP763 see RN 01.170.13-3					
			FPM	H77517								
			VMQ	H77516								
			EPDM	H77549								
			HNBR	H172180								
1	Seat seal	kvs = 100 m³/h	FPM	H77548			Item 3, 8, 10, 11, 12, 33 available as complete seal kits only					
			VMQ	H77547								
			EPDM	H77589								
			HNBR	H172183								
			FPM	H77588								
1	Seat seal	kvs = 160 m³/h Stroke: 15mm Stroke: 30mm	VMQ	H77587								
	*	LD* = linear flow characteristic, soft sealing										
	*	GD* = equal percentage flow characteristic, soft sealing										

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Spare parts list:										Date: 22.06.15 10.01.23		SPX FLOW	
Modulating valve RG4 - DN 125										Name: Tryko			
Diaphragm actuator MAT 3271 or MAT 3277 (Spring: closed or open) - 120, 175, 350, 750cm²										Approved by:			
Digital electro-pneumatic positioner										Name:			
Flow characteristic: linear or equal percentage										Approved by:		RN 01.170.0	
										Date:		Page 15 of 18	
										Name:			
										Approved by:			
Item	Quantity	Description	Material	Part no.	Item	Quantity	Description	Material	Part no.				
1	1	Housing	1.4404	H158115	16	1	Elbow union	G1/8" Ø6mm slewable	H208825				
2	1	Flange	1.4404		17	1	Red. nipple G1/4" G1/8" for actuator 120-750	MS58	H17018				
3	2	Seal	EPDM	H18839	18	1	Mounting plate for stroke	1.4301	H161763				
			HNBR	H77351	19	2	Pan head screw M5x12 DIN EN ISO 1580	1.4301	H127391				
			FPM	H172136	20	1	Stroke indicator	1.4301	H161761				
4	8	Hex. screw M10x25	VMQ	H77350	21	1	Counter nut	1.4301	H161762				
			A2-70	H77349				M10x1.5 . Stroke: 15mm	1.4301	H162483			
5	1	Flange	1.4404	H78811	22	1	Coupling top small for actuator 120	M14x1.5 . Stroke: 30mm	H205881				
6	8	Hex. screw M10x40	A2-70	H159201				1.4301	H162485				
7	8	Hex. nut M10	A2	H78831				1.4301	H205827				
8	2	Housing seal	EPDM	H79287	23	1	Driving plate complete	1.4301	H162486				
			HNBR	H77608	24	1	Angle bracket for kvs 16-160	1.4301	H162487				
			FPM	H172125	25	3	Elbow union G1/8" Ø6mm slewable		H208825				
9	1	Housing cover	1.4404	H77607	26	1	Hex. screw M8x70 DIN EN 24014	A2-70	H78803				
				H156218	27	1	Washer DIN 125 A I=8,4	A2-70	H79594				
10	1	Shaft seal	Turcon MF6	H202139	28	1	Hose 6x1x500		H16541				
				H323082				Electro-pneumatic positioner IP763 without accessory: lever l, spring l (stroke 15mm)	Aluminium die casted	H66919			
11	1	Seat seal	EPDM	H200020	29	1	Electro-pneumatic positioner IP763 without accessory: lever l, spring l (stroke 30mm)		H66920				
			HNBR	H77442									
			FPM	H170176									
			VMQ	H77441									
12	1	Seat seal	EPDM	H77440	30	3	Red. nipple G1/4" G1/8" for actuator 120-175	MS58	H17018				
			EPDM	H77467									
			HNBR	H166676									
			FPM	H77466									
13	1	Seat seal	VMQ	H77465	31	1	Red. nipple G3/4" G1/8" for actuator 350-750	1.4404	H17019				
			PTFE + 25% carbon	H207154				kvs = 63 m³/h					
			1.4308	H207154				kvs = 100 m³/h					
				H334067				kvs = 160 m³/h Stroke: 15mm					
14	1	Yoke	1.4308	H157574	32	1	Shaft - linear L *	1.4404					
15	8	Hex. screw M8x20	H202128	kvs = 160 m³/h Stroke: 30mm									
		Hex. screw M10x18	H78776	kvs = 250 m³/h Stroke: 30mm									

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Spare parts list:

Modulating valve RG4 - DN 150

Diaphragm actuator MAT 3271 or MAT 3277 (Spring: closed or open) - 120, 175, 350, 750cm²

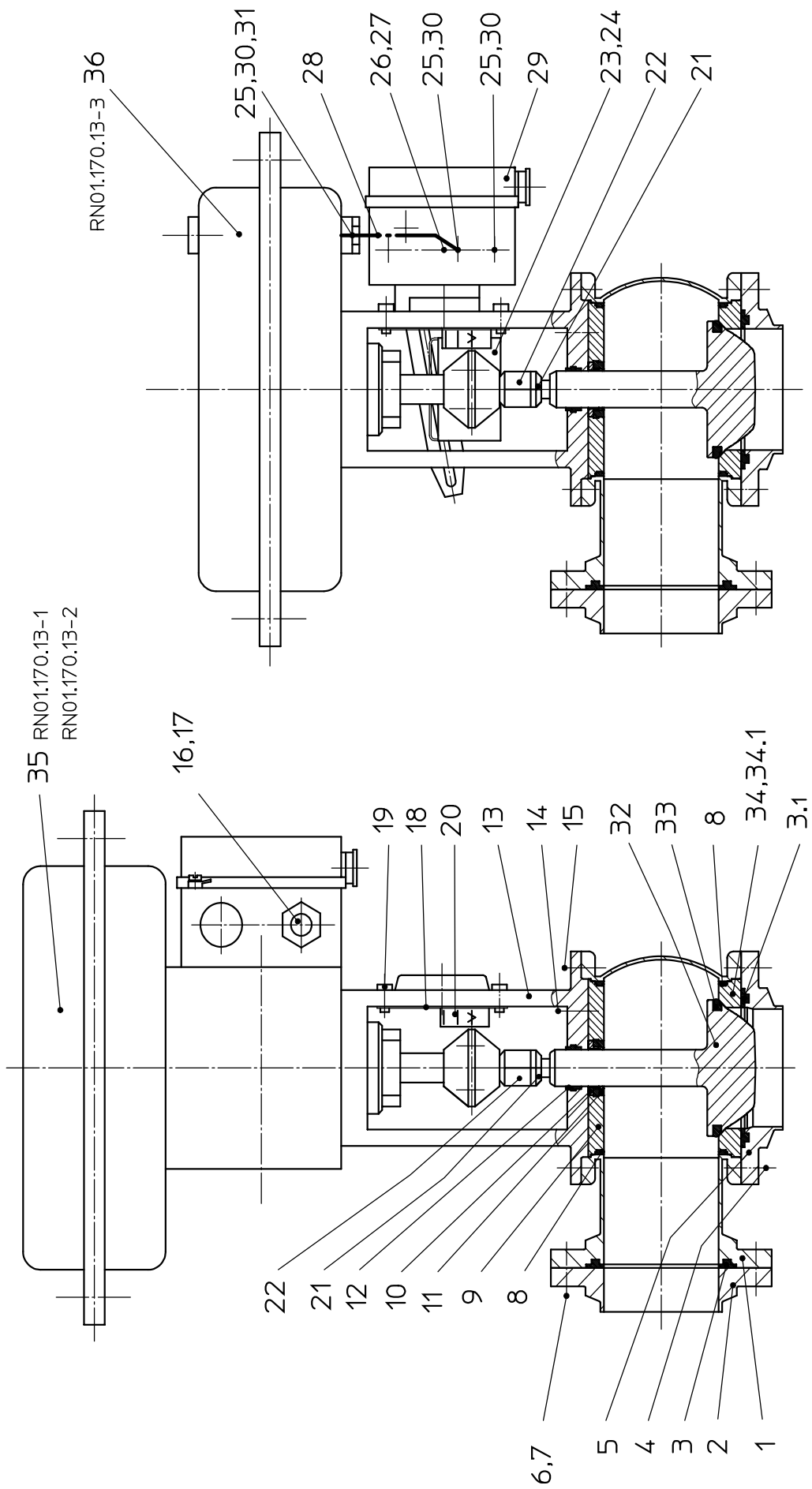
Digital electro-pneumatic positioner

Flow characteristic: linear or equal percentage

Spare parts list:										22.06.15		10.01.23	SPX FLOW	
Modulating valve RG4 - DN 150										Tryko		Shreshth		
Diaphragm actuator MAT 3271 or MAT 3277 (Spring: closed or open) - 120, 175, 350, 750cm²										Approved by:				
Digital electro-pneumatic positioner										Date:			Page 18 of 18	
Flow characteristic: linear or equal percentage										Name:			RN 01.170.0	
										Approved by:				
Item	Quantity	Description	Material	Part no.	Item	Quantity	Description	Material	Part no.					
33	1	Seat seal	EPDM	H77589										
			HNBR	H172183										
			FPM	H77588										
			VMQ	H77587										
34	1	Seat seal	EPDM	H77614										
			HNBR	H172189										
			FPM	H77613										
			VMQ	H77612										
34.1	1	Valve seat	1.4404											
			1.4404											
			1.4404											
			1.4404											
35	1	Valve seat	1.4404	H320358										
			1.4404	H205812										
			1.4404											
			1.4404											
36	1	Valve seat with punched cage (noise reduction)	1.4404	H205815										
			1.4404											
			1.4404											
			1.4404											
	1	Pneumatic actuator MAT 3277 + TROVIS3730-1, IP3730-X, IP3725 see RN 01.170.13-1, RN 01.170.13-2												
	1	Pneumatic actuator MAT 3271 + IP763 see RN 01.170.13-3												
		Item 3, 8, 10, 11, 12, 33 available as complete seal kits only												
	1	Seal kit	EPDM	H207289										
			HNBR	H338020										
			FPM	H338018										
	1	Seal kit	VMQ	H338019										
	*	LD* = linear flow characteristic, soft sealing												

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Spare parts list:				SPX FLOW			
Diaphragm actuator MAT 3271 or MAT 3277 (Spring: closed or open) - 120, 175, 350, 750cm ² Digital electro-pneumatic positioner Flow characteristic: linear or equal percentage				Date:	22.06.15	14.11.22	
				Name:	Trytko	Shreshth	
				Approved by:		Waltenb.	
				Date:			Page 1 of 15
				Name:			RN 01.170.1
				Approved by:			



Spare parts list:										SPX FLOW	
Modulating valve RG4 - 1"											
Diaphragm actuator MAT 3271 or MAT 3277 (Spring: closed or open) - 120, 175, 350, 750cm²										Date:	22.06.15
Digital electro-pneumatic positioner										Name:	Trytko
Flow characteristic: linear or equal percentage										Approved by:	Shreshth
										Approved by:	Waltenb.
										Date:	
										Name:	
										Approved by:	
										Page	2 of 15
										RN 01.170.1	
Item	Quantity	Description	Material	Part no.	Item	Quantity	Description	Material	Part no.		
1	1	Housing	1.4404	H158856	19	2	Pan head screw M5x12	DIN EN ISO 1580	1.4301		
2	1	Flange	1.4404	H158843	20	1	Stroke indicator	Stroke: 15mm	1.4301		
3	1	Seal	EPDM	H77284	21	1	Counter nut	M10x1 , Stroke: 15mm	1.4301		
			HNBR	H172140	22	1	Coupling top small	for actuator 120	1.4301		
			FPM	H77283		1	Coupling top big	for actuator 175-750	1.4301		
			VMQ	H77282	23	1	Driving plate complete		1.4301		
3.1	1	Seal	EPDM	H77280	24	1	Angle bracket	for kvs 16-160	1.4301		
			HNBR	H172130	25	3	Elbow union	G1/8" Ø6mm slewable	H208825		
			FPM	H77279	26	1	Hex. screw M8x70	DIN EN 24014	A2-70		
			VMQ	H77278	27	1	Washer	DIN 125 A l=8,4	A2-70		
4	4	Hex. screw M8x20	A2-70	H78776	28	1	Hose	6x1x500	H16541		
5	1	Flange	1.4404	H147044	29	1	Electro-pneumatic positioner IP763	without accessory: lever l, spring l (stroke 15mm)	Aluminium die casted		
6	4	Hex. screw M8x28	A2-70	H78778							
7	4	Hex. nut M8	A2	H79281	30	3	Red. nipple G1/4" G1/8"	for actuator 120-175	MS58		
8	2	Housing seal	EPDM	H77439	31	1	Red. nipple G3/4" G1/8"	for actuator 350-750	MS58		
			HNBR	H170017							
			FPM	H77438							
9	1	Housing cover	1.4404	H156869	32	1	Shaft - linear L *	kvs = 0,25 m³/h	1.4404		
10	1	Shaft seal	Turcon MF6	H323082				kvs = 0,4 m³/h	1.4404		
11	1	Seat seal	EPDM	H77442				kvs = 0,63 m³/h	1.4404		
			HNBR	H170176				kvs = 1,0 m³/h	1.4404		
			FPM	H77441	kvs = 1,6 m³/h	1.4404					
12	1	Bushing 20x9	VMQ	H77440				kvs = 2,5 m³/h			
			PTFE + 25% carbon	H207154				kvs = 4,0 m³/h			
			1.4308	H157564				kvs = 6,3 m³/h			
13	1	Yoke	1.4308	H157564				kvs = 10 m³/h			
14	1	Hex. screw M6x16	A2-70	H78751							
15	4	Hex. screw M8x16	A2-70	H78772							
16	1	Elbow union	G1/8" Ø6mm slewable	H208825							
17	1	Red. nipple G1/4" G1/8" for actuator 120-750	MS58	H17018							
18	1	Mounting plate for stroke indicator	1.4301	H161763							

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Spare parts list:										SPX FLOW				
Modulating valve RG4 - 1"										Date:	22.06.15	14.11.22		
										Name:		Trytko		
										Approved by:			Waltenb.	
										Date:				Page 3 of 15
										Name:				RN 01.170.1
										Approved by:				
Diaphragm actuator MAT 3271 or MAT 3277 (Spring: closed or open) - 120, 175, 350, 750cm²										Quantity	Item	Description	Material	Part no.
Digital electro-pneumatic positioner														
Flow characteristic: linear or equal percentage														
Item	Quantity	Description	Material	Part no.										
1	1	Shaft - linear LD*	kvs = 0.25 m³/h		34	1	Valve seat metal sealing	kvs = 0.25 m³/h	1.4404					
			kvs = 0.4 m³/h	H331801				kvs = 0.4 m³/h						
			kvs = 0.63 m³/h	H179617				kvs = 0.63 m³/h						
			kvs = 1.0 m³/h	H179618				kvs = 1.0 m³/h						
			kvs = 1.6 m³/h	H179620				kvs = 1.6 m³/h						
			kvs = 2.5 m³/h	H159476				kvs = 2.5 m³/h						
			kvs = 4.0 m³/h	H159477				kvs = 4.0 m³/h						
			kvs = 6.3 m³/h	H159478				kvs = 6.3 m³/h						
			kvs = 10 m³/h	H159479				kvs = 10 m³/h						
			kvs = 0.25 m³/h	H160657				kvs = 0.25 m³/h						
32	1	Shaft - equal percentage G*	kvs = 0.4 m³/h	H159245		1	Valve seat	kvs = 0.4 m³/h	1.4404					
			kvs = 0.63 m³/h	H159244				kvs = 0.63 m³/h						
			kvs = 1.0 m³/h	H159243				kvs = 1.0 m³/h						
			kvs = 1.6 m³/h	H159140				kvs = 1.6 m³/h						
			kvs = 2.5 m³/h					kvs = 2.5 m³/h						
			kvs = 4.0 m³/h	H326212				kvs = 4.0 m³/h						
			kvs = 6.3 m³/h	H207739				kvs = 6.3 m³/h						
			kvs = 10 m³/h	H207038				kvs = 10 m³/h						
			kvs = 0.25 m³/h					kvs = 0.25 m³/h						
			kvs = 0.4 m³/h	H320892				kvs = 0.4 m³/h						
33	1	Shaft - equal percentage GD*	kvs = 0.63 m³/h	H312777	34.1	1	Valve seat with punched cage (noise reduction)	kvs = 0.63 m³/h	1.4404					
			kvs = 1.0 m³/h	H208609				kvs = 1.0 m³/h						
			kvs = 1.6 m³/h	H311745				kvs = 1.6 m³/h						
			kvs = 2.5 m³/h	H159141				kvs = 2.5 m³/h						
			kvs = 4.0 m³/h	H159142				kvs = 4.0 m³/h						
			kvs = 6.3 m³/h	H159143				kvs = 6.3 m³/h						
			kvs = 10 m³/h	H159144				kvs = 10 m³/h						
			EPDM	H77445										
			HNBR	H172173										
			FPM	H77444										
36	1	Pneumatic actuator MAT 3271 + IP763 see RN 01.170.13-3			35	1	Pneumatic actuator MAT 3277 + TROVIS3730-1, IP3730-X, IP3725 see RN 01.170.13-1, RN 01.170.13-2		1.4404					

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Spare parts list:										SPX FLOW		
Modulating valve RG4 - 1,5"										Date:	22.06.15	14.11.22
Diaphragm actuator MAT 3271 or MAT 3277 (Spring: closed or open) - 120, 175, 350, 750cm ² Digital electro-pneumatic positioner Flow characteristic: linear or equal percentage										Name:	Trytko	Shreshth
										Approved by:		Waltenb.
										Date:		
										Name:		
										Approved by:		
										RN 01.170.1		
Item	Quantity	Description	Material	Part no.	Item	Quantity	Description	Material	Part no.			
1	1	Housing	1.4404	H158857	19	2	Pan head screw M5x12	DIN EN ISO 1580	1.4301	H127391		
			1.4404	H316472	20	1	Stroke indicator	Stroke: 15mm	1.4301	H161761		
2	1	Flange	1.4404	H158846	21	1	Counter nut	M10x1 , Stroke: 15mm	1.4301	H162483		
3	1	Seal	EPDM	H77296	22	1	Coupling top small	for actuator 120	1.4301	H162484		
			HNBR	H172141	23	1	Coupling top big	for actuator 175-750	1.4301	H162485		
			FPM	H77295	24	1	Driving plate complete		1.4301	H162486		
			VMQ	H77294	25	3	Angle bracket	for kvs 16-160	1.4301	H162487		
3.1	1	Seal	EPDM	H77292	26	1	Elbow union	G1/8" Ø6mm slewable		H208825		
			HNBR	H172131	27	1	Hex. screw M8x70	DIN EN 24014	A2-70	H78803		
			FPM	H77291	28	1	Washer	DIN 125 A l=8,4	A2-70	H79594		
			VMQ	H77290	29	1	Hose	6x1x500		H16541		
4	4	Hex. screw M8x20	DIN EN 24017				Electro-pneumatic positioner IP763	without accessory: lever l, spring l (stroke 15mm)	Aluminium die casted	H66919		
5	1	Flange	FNX1	H147046	30	3	Red. nipple G1/4" G1/8"	for actuator 120-175	MS58	H17018		
6	4	Hex. screw M8x28	DIN EN 24017	H78778		2	Red. nipple G1/4" G1/8"	for actuator 350-750	MS58	H17018		
7	4	Hex. nut M8	DIN EN 24032	H79281	31	1	Red. nipple G3/4" G1/8"	for actuator 350-750	MS58	H17019		
8	2	Housing seal	EPDM	H77464				kvs = 0,63 m³/h	1.4404	H160668		
			HNBR	H170018				kvs = 1,0 m³/h	1.4404	H160669		
			FPM	H77463				kvs = 1,6 m³/h	1.4404	H159401		
9	1	Housing cover	1.4404	H156409				kvs = 2,5 m³/h				
10	1	Shaft seal	Turcon MF6	H323082	32	1	Shaft - linear L *	kvs = 4,0 m³/h				
		EPDM	H77442	kvs = 6,3 m³/h								
		HNBR	H170176	kvs = 10 m³/h								
		FPM	H77441									
			VMQ	H77440				kvs = 16 m³/h	1.4404	H169153		
12	1	Bushing 20x9	PTFE + 25% carbon	H207154				kvs = 25 m³/h	1.4404	H175757		
13	1	Yoke	1.4308	H157565								
14	1	Hex. screw M8x16	DIN EN 24017	H78772								
15	4	Hex. screw M8x16	DIN EN 24017	H78772								
16	1	Elbow union	G1/8" Ø6mm slewable	H208825								
17	1	Red. nipple G1/4" G1/8"	for actuator 120-750	H17018								
18	1	Mounting plate for stroke indicator	MS58	H17018								
			1.4301	H161763								

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Spare parts list:										SPX FLOW				
Diaphragm actuator MAT 3271 or MAT 3277 (Spring: closed or open) - 120, 175, 350, 750cm ²										Date:	22.06.15	14.11.22		
Digital electro-pneumatic positioner										Name:	Trytko			
Flow characteristic: linear or equal percentage										Approved by:		Waltenb.		
										Date:				Page 6 of 15
										Name:				RN 01.170.1
										Approved by:				
Item	Quantity	Description	Material	Part no.	Item	Quantity	Description	Material	Part no.					
32	1	Shaft - linear LD*	kvs = 0.63 m³/h	1.4404	33	1	Seat seal							
			kvs = 1.0 m³/h	1.4404	34	1	kvs = 16 m³/h							
			kvs = 1.6 m³/h	1.4404			kvs = 25 m³/h							
			kvs = 2.5 m³/h	1.4404			kvs = 0.63 m³/h							
			kvs = 4.0 m³/h	1.4404			kvs = 1.0 m³/h							
	kvs = 6.3 m³/h	1.4404	kvs = 1.6 m³/h											
	kvs = 10 m³/h	1.4404	kvs = 2.5 m³/h											
	kvs = 16 m³/h	1.4404	kvs = 4.0 m³/h											
	kvs = 25 m³/h	1.4404	kvs = 6.3 m³/h											
	kvs = 0.63 m³/h	1.4404												
1	Shaft - equal percentage G*	kvs = 1.0 m³/h	1.4404											
		kvs = 1.6 m³/h	1.4404											
		kvs = 2.5 m³/h	1.4404											
		kvs = 4.0 m³/h	1.4404											
		kvs = 6.3 m³/h	1.4404											
1	Shaft - equal percentage GD*	kvs = 10 m³/h	1.4404											
		kvs = 16 m³/h	1.4404											
		kvs = 25 m³/h	1.4404											
		kvs = 0.63 m³/h	1.4404											
		kvs = 1.0 m³/h	1.4404											
1	Shaft - equal percentage GD*	kvs = 1.6 m³/h	1.4404											
		kvs = 2.5 m³/h	1.4404											
		kvs = 4.0 m³/h	1.4404											
		kvs = 6.3 m³/h	1.4404											
		kvs = 10 m³/h	1.4404											
1	Shaft - equal percentage GD*	kvs = 16 m³/h	1.4404											
		kvs = 25 m³/h	1.4404											
		kvs = 0.63 m³/h - kvs = 1.0 m³/h	EPDM											
		kvs = 1.6 m³/h - kvs = 2.5 m³/h	HNBR											
		kvs = 4.0 m³/h - kvs = 6.3 m³/h	FPM											
33	1	Seat seal	kvs = 10 m³/h	VMQ										

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Spare parts list:										SPX FLOW	
Modulating valve RG4 - 2"											
Diaphragm actuator MAT 3271 or MAT 3277 (Spring: closed or open) - 120, 175, 350, 750cm²										Page 8 of 15	
Digital electro-pneumatic positioner										RN 01.170.1	
Flow characteristic: linear or equal percentage											
Item	Quantity	Description	Material	Part no.	Item	Quantity	Description	Material	Part no.		
1	1	Housing	1.4404	H158858	19	2	Pan head screw M5x12	DIN EN ISO 1580	1.4301		
2	1	Flange	1.4404	H178540	20	1	Stroke indicator	Stroke: 15mm	1.4301		
3	1	Seal	1.4404	H158847	21	1	Counter nut	M10x1 , Stroke: 15mm	1.4301		
			EPDM	H77307	22	1	Coupling top small	for actuator 120	1.4301		
			HNBR	H172142		1	Coupling top big	for actuator 175-750	1.4301		
			FPM	H77306		23	1	Driving plate complete		1.4301	
3.1	1	Seal	VMQ	H77305	24	1	Angle bracket	for kvs 16-160	1.4301		
			EPDM	H77303	25	3	Elbow union	G1/8" Ø6mm slewable	H208825		
			HNBR	H172132	26	1	Hex. screw M8x70	DIN EN 24014	A2-70		
			FPM	H77302	27	1	Washer	DIN 125 A l=8,4	H79594		
			VMQ	H77301	28	1	Hose	6x1x500	H16541		
			A2-70	H78776	29	1	Electro-pneumatic positioner IP763	without accessory: lever l, spring l (stroke 15mm)	Aluminium die casted		
4	4	Hex. screw M8x20	DIN EN 24017	30	3	Red. nipple G1/4" G1/8"	for actuator 120-175	MS58			
5	1	Flange	FNX1		2	Red. nipple G1/4" G1/8"	for actuator 350-750	MS58			
6	4	Hex. screw M8x28	DIN EN 24017	31	1	Red. nipple G3/4" G1/8"	for actuator 350-750	MS58			
7	4	Hex. nut M8	DIN EN 24032	32	1	Shaft - linear L *	kvs = 4,0 m³/h				
8	2	Housing seal	Ø73				kvs = 6,3 m³/h				
			Ø73				kvs = 10 m³/h				
			Ø73				kvs = 16 m³/h	1.4404			
9	1	Housing cover		11	1	Seat seal	kvs = 25 m³/h	1.4404			
10	1	Shaft seal	SW4-Ø20mm				kvs = 40 m³/h	1.4404			
12	1	Bushing 20x9					kvs = 4,0 m³/h	1.4404			
				kvs = 6,3 m³/h	1.4404						
				kvs = 10 m³/h	1.4404						
13	1	Yoke	1.4308	13	1	Yoke	kvs = 16 m³/h	1.4404			
14	1	Hex. screw M8x16	DIN EN 24017				kvs = 25 m³/h	1.4404			
15	4	Hex. screw M8x16	DIN EN 24017				kvs = 40 m³/h	1.4404			
16	1	Elbow union	G1/8" Ø6mm slewable	16	1	Elbow union	kvs = 4,0 m³/h	1.4404			
17	1	Red. nipple G1/4" G1/8"	for actuator 120-750				kvs = 6,3 m³/h	1.4404			
18	1	Mounting plate for stroke indicator					kvs = 10 m³/h	1.4404			
			MS58	17	1	Red. nipple G1/4" G1/8"	kvs = 16 m³/h	1.4404			
			1.4301				kvs = 25 m³/h	1.4404			
							kvs = 40 m³/h	1.4404			

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Spare parts list:

Modulating valve RG4 - 2"

Diaphragm actuator MAT 3271 or MAT 3277 (Spring: closed or open) - 120, 175, 350, 750cm²

Digital electro-pneumatic positioner

Flow characteristic: linear or equal percentage

Spare parts list:						
Modulating valve RG4 - 2"						
Diaphragm actuator MAT 3271 or MAT 3277 (Spring: closed or open) - 120, 175, 350, 750cm² Digital electro-pneumatic positioner Flow characteristic: linear or equal percentage						
Item	Quantity	Description	Material	Part no.	Item	Quantity
32	1	kvs = 4,0 m³/h	1.4404	H326212	Valve seat metal sealing	1
		kvs = 6,3 m³/h	1.4404	H207739		
		kvs = 10 m³/h	1.4404	H207038		
		kvs = 16 m³/h	1.4404	H331585		
		kvs = 25 m³/h	1.4404	H163545		
		kvs = 40 m³/h	1.4404	H333827		
	1	kvs = 4,0 m³/h	1.4404	H159142	Valve seat	1
		kvs = 6,3 m³/h	1.4404	H159143		
		kvs = 10 m³/h	1.4404	H159144		
		kvs = 16 m³/h	1.4404	H159145		
		kvs = 25 m³/h	1.4404	H159146		
		kvs = 40 m³/h	1.4404	H159147		
33	1	kvs = 4,0 m³/h	EPDM	H77445	Valve seat with punched cage (noise reduction)	1
		kvs = 6,3 m³/h	HNBR	H172173		
		kvs = 10 m³/h	FPM	H77444		
			VMQ	H77443		
			EPDM	H77470		
			HNBR	H172175		
	1	kvs = 16 m³/h	FPM	H77469	Pneumatic actuator MAT 3277 + TROVIS3730-1, IP3730-X, IP3725 see RN 01.170.13-1, RN 01.170.13-2	1
		kvs = 25 m³/h	VMQ	H77468		
			EPDM	H77494		
			HNBR	H168709		
			FPM	H77493		
			VMQ	H77492		
	*	LD* = linear flow characteristic, soft sealing				*
	*	GD* = equal percentage flow characteristic, soft sealing				*

Spare parts list:										SPX FLOW		
Modulating valve RG4 - 2,5"										Date:	22.06.15	
Diaphragm actuator MAT 3271 or MAT 3277 (Spring: closed or open) - 120, 175, 350, 750cm ² Digital electro-pneumatic positioner Flow characteristic: linear or equal percentage										Name:	Trytko	
										Approved by:		Shreshth
												Waltenb.
										Date:		
										Name:		
										Approved by:		
										Page	10 of 15	
										RN 01.170.1		
Item	Quantity	Description	Material	Part no.	Item	Quantity	Description	Material	Part no.			
1	1	Housing	1.4404	H158859	19	2	Pan head screw M5x12	DIN EN ISO 1580	1.4301			
			1.4404	H325834	20	1	Stroke indicator	Stroke: 15mm	1.4301			
2	1	Flange	1.4404	H158848	21	1	Counter nut	M10x1 , Stroke: 15mm	1.4301			
3	1	Seal	EPDM	H77318	22	1	Coupling top small	for actuator 120	1.4301			
			HNBR	H172143		1	Coupling top big	for actuator 175-750	1.4301			
			FPM	H77317		23	1	Driving plate complete		1.4301		
			VMQ	H77316		24	1	Angle bracket	for kvs 16-160	1.4301		
3.1	1	Seal	EPDM	H77314	25	3	Elbow union	G1/8" Ø6mm slewable	H208825			
			HNBR	H172133		26	1	Hex. screw M8x70	DIN EN 24014	A2-70		
			FPM	H77313		27	1	Washer	DIN 125 A l=8,4	A2-70		
			VMQ	H77312		28	1	Hose	6x1x500	H16541		
4	4	Hex. screw M8x20	A2-70	H78776	29	1	Electro-pneumatic positioner IP763	without accessory: lever l, spring l (stroke 15mm)	H66919			
5	1	Flange	1.4404	H147048	30	3	Red. nipple G1/4" G1/8"	for actuator 120-175	MS58			
6	4	Hex. screw M8x28	A2-70	H78778		2	Red. nipple G1/4" G1/8"	for actuator 350-750	MS58			
7	4	Hex. nut M8	A2	H79281	31	1	Red. nipple G3/4" G1/8"	for actuator 350-750	MS58			
8	2	Housing seal	EPDM	H77512	32	1	Shaft - linear L *	kvs = 16 m³/h	1.4404			
			HNBR	H168759				kvs = 25 m³/h	1.4404			
			FPM	H77511				kvs = 40 m³/h	1.4404			
9	1	Housing cover	1.4404	H151968		1	Shaft - linear LD*	kvs = 63 m³/h	1.4404			
10	1	Shaft seal	Turcon MF6	H323082				kvs = 16 m³/h	1.4404			
			EPDM	H77442				kvs = 25 m³/h	1.4404			
11	1	Seat seal	HNBR	H170176		1	Shaft - equal percentage G*	kvs = 40 m³/h	1.4404			
			FPM	H77441				kvs = 63 m³/h	1.4404			
			VMQ	H77440				kvs = 16 m³/h	1.4404			
12	1	Bushing 20x9	PTFE + 25% carbon	H207154		1	Shaft - equal percentage GD*	kvs = 16 m³/h	1.4404			
13	1	Yoke	1.4308	H157568	kvs = 25 m³/h			1.4404				
14	1	Hex. screw M8x16	A2-70	H78772	kvs = 40 m³/h			1.4404				
15	4	Hex. screw M8x16	A2-70	H78772	kvs = 63 m³/h			1.4404				
16	1	Elbow union	G1/8" Ø6mm slewable	H208825	1	Shaft - equal percentage GD*	kvs = 16 m³/h	1.4404				
17	1	Red. nipple G1/4" G1/8" for actuator 120-750	MS58	H17018			kvs = 25 m³/h	1.4404				
18	1	Mounting plate for stroke indicator	1.4301	H161763			kvs = 40 m³/h	1.4404				
							kvs = 63 m³/h	1.4404	H321260			

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Spare parts list:						
Modulating valve RG4 - 2,5"						
Diaphragm actuator MAT 3271 or MAT 3277 (Spring: closed or open) - 120, 175, 350, 750cm² Digital electro-pneumatic positioner Flow characteristic: linear or equal percentage						
Item	Quantity	Description	Material	Part no.	Item	Quantity
33	1	Seat seal kvs = 16 m³/h kvs = 25 m³/h	EPDM	H77470		
			HNBR	H172175		
			FPM	H77469		
			VMQ	H77468		
33	1	Seat seal kvs = 40 m³/h	EPDM	H77494		
			HNBR	H168709		
			FPM	H77493		
			VMQ	H77492		
33	1	Seat seal kvs = 63 m³/h	EPDM	H77518		
			HNBR	H172178		
			FPM	H77517		
			VMQ	H77516		
34	1	Valve seat metal sealing kvs = 16 m³/h kvs = 25 m³/h kvs = 40 m³/h kvs = 63 m³/h				
	1	Valve seat kvs = 16 m³/h kvs = 25 m³/h kvs = 40 m³/h kvs = 63 m³/h	1.4404	H326912		
			1.4404	H326914		
			1.4404	H33486		
			1.4404	H326913		
34.1	1	Valve seat with punched cage (noise reduction) kvs = 16 m³/h kvs = 25 m³/h kvs = 40 m³/h kvs = 63 m³/h	1.4404	H326915		
			1.4404	H148263		
35	1	Pneumatic actuator MAT 3277 + TROVIS3730-1, IP3730-X, IP3725 see RN 01.170.13-1, RN 01.170.13-2				
36	1	Pneumatic actuator MAT 3271 + IP763 see RN 01.170.13-3				

Spare parts list:										Date: 22.06.15 14.11.22		SPX FLOW	
Modulating valve RG4 - 3"										Name: Trytko			
										Approved by:			
Diaphragm actuator MAT 3271 or MAT 3277 (Spring: closed or open) - 120, 175, 350, 750cm²										Date:		Page 12 of 15	
Digital electro-pneumatic positioner										Name:		RN 01.170.1	
Flow characteristic: linear or equal percentage										Approved by:			
Item	Quantity	Description	Material	Part no.	Item	Quantity	Description	Material	Part no.				
1	1	Housing	1.4404	H158860	19	2	Pan head screw M5x12	DIN EN ISO 1580	1.4301				
			1.4404	H314407	20	1	Stroke indicator	Stroke: 15mm	1.4301				
2	1	Flange	1.4404	H158849	21	1	Counter nut	M10x1 , Stroke: 15mm	1.4301				
			EPDM	H77332	22	1	Coupling top small	for actuator 120	1.4301				
3	1	Seal	HNBR	H172144	23	1	Coupling top big	for actuator 175-750	1.4301				
			FPM	H77331	24	1	Driving plate complete		1.4301				
			VMQ	H77330	25	3	Angle bracket	for kvs 16-160	1.4301				
			EPDM	H77332	26	1	Elbow union	G1/8" Ø6mm slewable	H208825				
3.1	1	Seal	HNBR	H172144	27	1	Hex. screw M8x70	DIN EN 24014	A2-70				
			FPM	H77331	28	1	Washer	DIN 125 A l=8,4	H79594				
			VMQ	H77330	29	1	Hose	6x1x500	H16541				
4	4	Hex. screw M8x20	DIN EN 24017	H78776	30	3	Electro-pneumatic positioner IP763	without accessory: lever l, spring l (stroke 15mm)	Aluminium die casted				
5	1	Flange	FNX1	H158889	31	1	Red. nipple G1/4" G1/8"	for actuator 120-175	MS58				
6	8	Hex. screw M8x28	DIN EN 24017	H78778		2	Red. nipple G1/4" G1/8"	for actuator 350-750	MS58				
7	8	Hex. nut M8	DIN EN 24032	H79281		1	Red. nipple G3/4" G1/8"	for actuator 350-750	MS58				
			Ø88	H77558				kvs = 16 m³/h	1.4404				
8	2	Housing seal	EPDM	H170013				kvs = 25 m³/h	1.4404				
			HNBR	H77557				kvs = 40 m³/h	1.4404				
9	1	Housing cover	1.4404	H151895		1	Shaft - linear L *	kvs = 63 m³/h	1.4404				
10	1	Shaft seal	Turcon MF6	H323082				kvs = 80 m³/h	1.4404				
			EPDM	H77442									
11	1	Seat seal	HNBR	H170176				kvs = 16 m³/h	1.4404				
			FPM	H77441				kvs = 25 m³/h	1.4404				
			VMQ	H77440				kvs = 40 m³/h	1.4404				
12	1	Bushing 20x9	PTFE + 25% carbon	H207154		1	Shaft - linear LD*	kvs = 63 m³/h	1.4404				
								kvs = 80 m³/h	1.4404				
13	1	Yoke	1.4308	H159375				kvs = 16 m³/h	1.4404				
14	1	Hex. screw M8x16	DIN EN 24017	H78772				kvs = 25 m³/h	1.4404				
15	4	Hex. screw M8x16	DIN EN 24017	H78772				kvs = 40 m³/h	1.4404				
16	1	Elbow union	G1/8" Ø6mm slewable	H208825				kvs = 63 m³/h	1.4404				
17	1	Red. nipple G1/4" G1/8" for actuator 120-750	MS58	H17018				kvs = 80 m³/h	1.4404				
18	1	Mounting plate for stroke indicator	1.4301	H161763				kvs = 16 m³/h	1.4404				
								kvs = 25 m³/h	1.4404				
								kvs = 40 m³/h	1.4404				
								kvs = 63 m³/h	1.4404				
								kvs = 80 m³/h	1.4404				
									</				

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Spare parts list:										22.06.15		14.11.22		SPX FLOW	
Modulating valve RG4 - 3"										Trytko					
Diaphragm actuator MAT 3271 or MAT 3277 (Spring: closed or open) - 120, 175, 350, 750cm²										Approved by:		Waltenb.			
Digital electro-pneumatic positioner										Date:				Page 13 of 15	
Flow characteristic: linear or equal percentage										Name:				RN 01.170.1	
										Approved by:					
Item	Quantity	Description	Material	Part no.	Item	Quantity	Description	Material	Part no.						
32	1	Shaft - equal percentage GD*	kvs = 16 m³/h	H159145	34.1	1	Valve seat	kvs = 16 m³/h							
			kvs = 25 m³/h	H159146				kvs = 25 m³/h							
			kvs = 40 m³/h	H159147				kvs = 40 m³/h		1.4404	H149597				
			kvs = 63 m³/h	H159148				kvs = 63 m³/h		1.4404	H149599				
			kvs = 80 m³/h	H159762				kvs = 80 m³/h		1.4404	H160041				
33	1	Seat seal	EPDM	H77470	35	1	Pneumatic actuator MAT 3277 + TROVIS3730-1, IP3730-X, IP3725 see RN 01.170.13-1, RN 01.170.13-2								
			HNBR	H172175											
			FPM	H77469											
			VMQ	H77468											
			EPDM	H77494											
	1	Seat seal	HNBR	H168709				Item 3, 8, 10, 11, 12, 33 available as complete seal kits only							
			FPM	H77493											
			VMQ	H77492											
			EPDM	H77518											
			HNBR	H172178											
	1	Seat seal	FPM	H77517		1	Seal kit	EPDM	H174419						
			VMQ	H77516				HNBR	H325403						
			EPDM	H77564				FPM	H325402						
			HNBR	H176688				VMQ	H338001						
			FPM	H77563											
	1	Seat seal	VMQ	H77562		*	LD* = linear flow characteristic, soft sealing								
34	1	Valve seat metal sealing	kvs = 16 m³/h												
			kvs = 25 m³/h												
			kvs = 40 m³/h												
			kvs = 63 m³/h												
			kvs = 80 m³/h												
	1	Valve seat	kvs = 16 m³/h	H332539											
			kvs = 25 m³/h												
			kvs = 40 m³/h	H33511											
			kvs = 63 m³/h	H147062											
			kvs = 80 m³/h	H33512											

Spare parts list:										SPX FLOW	
Modulating valve RG4 - 4"											
Diaphragm actuator MAT 3271 or MAT 3277 (Spring: closed or open) - 120, 175, 350, 750cm²										Date:	22.06.15
Digital electro-pneumatic positioner										Name:	Trytko
Flow characteristic: linear or equal percentage										Approved by:	Shreshth
											Waltenb.
										Date:	
										Name:	
										Approved by:	
										RN 01.170.1	
Item	Quantity	Description	Material	Part no.	Item	Quantity	Description	Material	Part no.		
1	1	Housing	1.4404	H158861	19	2	Pan head screw M5x12	DIN EN ISO 1580	1.4301		
			1.4404		20	1	Stroke indicator	Stroke: 15mm	1.4301		
2	1	Flange	1.4404	H158850	21	1	Counter nut	M10x1 , Stroke: 15mm	1.4301		
3	1		EPDM	H77343	22	1	Coupling top small	for actuator 120	1.4301		
			HNBR	H172145		1	Coupling top big	for actuator 175-750	1.4301		
			FPM	H77342		23	1	Driving plate complete		1.4301	
			VMQ	H77341		24	1	Angle bracket	for kvs 16-160	1.4301	
3.1	1		EPDM	H77339	25	3	Elbow union	G1/8" Ø6mm slewable	H208825		
			HNBR	H172135	26	1	Hex. screw M8x70	DIN EN 24014	A2-70		
			FPM	H77338	27	1	Washer	DIN 125 A l=8,4	A2-70		
			VMQ	H77337	28	1	Hose	6x1x500	H16541		
4	8	Hex. screw M10x20	DIN EN 24017		29	1	Electro-pneumatic positioner IP763	Aluminium die casted without accessory: lever l, spring l (stroke 15mm)	H66919		
5	1	Flange	FNX1		30	3	Red. nipple G1/4" G1/8"	for actuator 120-175	H17018		
6	8	Hex. screw M8x28	DIN EN 24017			2	Red. nipple G1/4" G1/8"	for actuator 350-750	H17018		
7	8	Hex. nut M8	DIN EN 24032		31	1	Red. nipple G3/4" G1/8"	for actuator 350-750	H17019		
8	2	Housing seal	Ø110,2	H77583		1	kvs = 63 m³/h				
			Ø110,2	H170074			kvs = 100 m³/h				
			Ø110,2	H77582			kvs = 160 m³/h Stroke: 15mm				
9	1	Housing cover		H159888			kvs = 160 m³/h Stroke: 30mm				
10	1	Shaft seal	SW4-Ø20mm	H323082							
11	1			H77442	1	1	kvs = 63 m³/h	1.4404	H159483		
			EPDM				kvs = 100 m³/h	1.4404	H159309		
			HNBR	H170176			kvs = 160 m³/h Stroke: 15mm	1.4404	H167867		
			FPM	H77441			kvs = 160 m³/h Stroke: 30mm				
			VMQ	H77440			kvs = 160 m³/h Stroke: 30mm				
12	1	Bushing 20x9		PTFE + 25% carbon	1	1	kvs = 63 m³/h				
13	1	Yoke		H207154			kvs = 100 m³/h				
14	1	Hex. screw M8x16	DIN EN 24017	H159572			kvs = 160 m³/h Stroke: 15mm				
15	8	Hex. screw M10x16	DIN EN 24017	H78772			kvs = 160 m³/h Stroke: 30mm				
16	1	Elbow union	G1/8" Ø6mm slewable	H78806	1	1	kvs = 63 m³/h	1.4404	H159148		
17	1	Red. nipple G1/4" G1/8" for actuator 120-750		H208825			kvs = 100 m³/h	1.4404	H159149		
18	1	Mounting plate for stroke indicator		H17018			kvs = 160 m³/h Stroke: 15mm	1.4404	H175422		
				H161763			kvs = 160 m³/h Stroke: 30mm				

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Spare parts list:

Modulating valve RG4 - 4"

Diaphragm actuator MAT 3271 or MAT 3277 (Spring: closed or open) - 120, 175, 350, 750cm²

Digital electro-pneumatic positioner

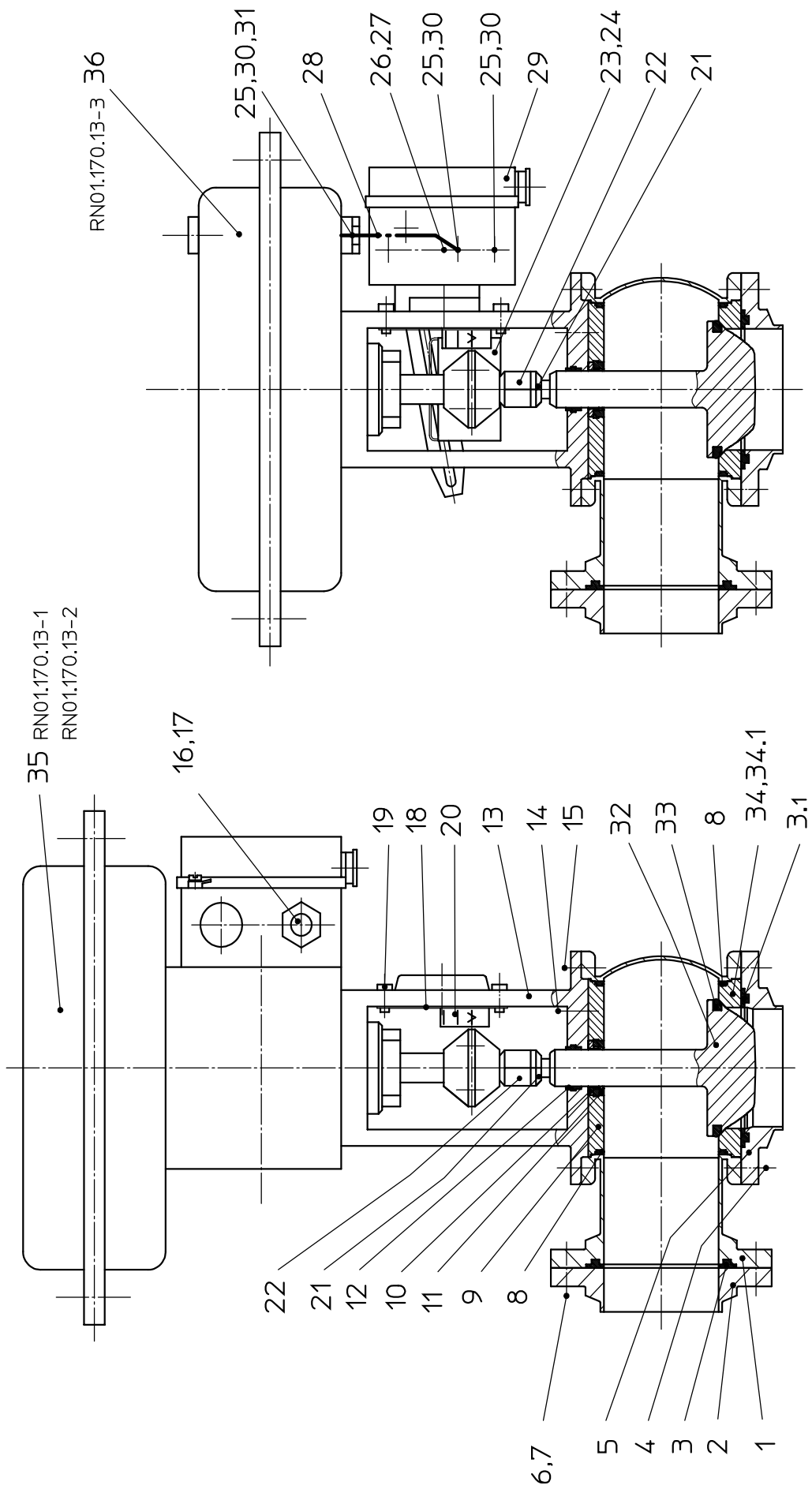
Flow characteristic: linear or equal percentage

Spare parts list:									
Modulating valve RG4 - 4"									
Diaphragm actuator MAT 3271 or MAT 3277 (Spring: closed or open) - 120, 175, 350, 750cm ²									
Digital electro-pneumatic positioner									
Flow characteristic: linear or equal percentage									
Item	Quantity	Description	Material	Part no.	Item	Quantity	Description	Material	Part no.
33	1	Seat seal kvs = 63 m³/h	EPDM	H77518					
			HNBR	H172178					
			FPM	H77517					
			VMQ	H77516					
	1	Seat seal kvs = 100 m³/h	EPDM	H77549					
			HNBR	H172180					
FPM			H77548						
	1	Seat seal kvs = 160 m³/h Stroke: 15mm	VMQ	H77547					
			EPDM	H77589					
			HNBR	H172183	*	LD* = linear flow characteristic, soft sealing			
			FPM	H77588	*	GD* = equal percentage flow characteristic, soft sealing			
34	1	Valve seat metal sealing kvs = 63 m³/h kvs = 100 m³/h kvs = 160 m³/h Stroke: 15mm kvs = 160 m³/h Stroke: 30mm	VMQ	H77587					
	1	Valve seat kvs = 63 m³/h kvs = 100 m³/h kvs = 160 m³/h Stroke: 15mm kvs = 160 m³/h Stroke: 30mm	1.4404	H33490					
			1.4404	H125799					
34.1	1	Valve seat with punched cage (noise reduction) kvs = 63 m³/h kvs = 100 m³/h kvs = 160 m³/h Stroke: 15mm kvs = 160 m³/h Stroke: 30mm	1.4404	H125798					
			1.4404	H149005					
			1.4404	H141526					
35	1	Pneumatic actuator MAT 3277 + TROVIS3730-1, IP3730-X, IP3725 see RN 01.170.13-1, RN 01.170.13-2	1.4404	H152311					
36	1	Pneumatic actuator MAT 3271 + IP763 see RN 01.170.13-3							

Date:	22.06.15	14.11.22																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																														</
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Spare parts list:			SPX FLOW		
Modulating valve RG4 - 1" - 4" - 3A					
Diaphragm actuator MAT 3271 or MAT 3277 (Spring: closed or open) - 120, 175, 350, 750cm ² Digital electro-pneumatic positioner Flow characteristic: linear or equal percentage			Date:	16.09.15	13.01.23
			Name:	Trytko	Shreshth
			Approved by:		Waltenb.
			Date:		
			Name:		
			Approved by:		
			Page	1	of 15
			RN 01.170.8		



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Spare parts list:										SPX FLOW		
Modulating valve RG4 - 1" - 3A												
Diaphragm actuator MAT 3271 or MAT 3277 (Spring: closed or open) - 120, 175, 350, 750cm²										Date: 16.09.15 13.01.23		
Digital electro-pneumatic positioner										Trytko Shreshth		
Flow characteristic: linear or equal percentage										Approved by: Waltenb.		
										Date:		
										Name:		
										Approved by:		
										Page 2 of 15		
										RN 01.170.8		
Item	Quantity	Description	Material	Part no.	Item	Quantity	Description	Material	Part no.			
1	1	Housing RG41-1FN1	Design 3A-bright finish	1.4404	H321159	18	1	Mounting plate for stroke indicator	1.4301	H161763		
		Design satin finish	1.4404	H325585	19	2	Pan head screw M5x12	DIN EN ISO 1580	1.4301	H127391		
2	1	Flange FGX1	Design 3A-bright finish	1.4404	H321164	20	1	Stroke indicator	1.4301	H161761		
			Design satin finish	1.4404	H158843	21	1	Counter nut	M10x1. Stroke: 15mm	1.4301	H162483	
3	1	Seal	FGN1	EPDM	H77284	22	1	Coupling top small	1.4301	H162484		
			FGN1	HNBR	H172140		1	Coupling top big	1.4301	H162485		
			FGN1	FPM	H77283	23	1	Driving plate complete	1.4301	H162486		
			FGN1	VMQ	H77282	24	1	Angle bracket	1.4301	H162487		
3.1	1	Seal	FGN1	EPDM	H77280	25	3	Elbow union	G1/8" Ø6mm slewable	H208825		
			FGN1	HNBR	H172130	26	1	Hex. screw M8x70	DIN EN 24014	A2-70	H78803	
			FGN1	FPM	H77279	27	1	Washer	DIN 125 A I=8,4	A2-70	H79594	
			FGN1	VMQ	H77278	28	1	Hose	6x1x500		H16541	
4	4	Hex. screw M8x20	DIN EN 24017	H78776	29	1	Electro-pneumatic positioner IP763	without accessory: lever l, spring l (stroke 15mm)	Aluminium die casted	H66919		
5	1	Flange FNX1	Design 3A-bright finish	1.4404	H321162	30	3	Red. nipple G1/4" G1/8"	for actuator 120-175	MS58	H17018	
			Design satin finish	1.4404	H147044		2	Red. nipple G1/4" G1/8"	for actuator 350-750	MS58	H17018	
6	4	Hex. screw M8x28	DIN EN 24017	H78778	31	1	Red. nipple G3/4" G1/8"	for actuator 350-750	MS58	H17019		
7	4	Hex. nut M8	DIN EN 24032	H79281				kvs = 0,25 m³/h	1.4404	H160658		
8	2	Housing seal	Ø45	HNBR	H170017			kvs = 0,4 m³/h	1.4404	H160666		
9	1	Housing cover	Ø45	FPM	H77438			kvs = 0,63 m³/h	1.4404	H160668		
10	1	Shaft seal	SW4-Ø20mm	Turcon MF6	H323082	32	1	Shaft - linear L *	kvs = 1,0 m³/h	1.4404	H160669	
				EPDM	H77442				kvs = 1,6 m³/h	1.4404	H159401	
11	1	Seat seal		HNBR	H170176				kvs = 2,5 m³/h			
				FPM	H77441				kvs = 4,0 m³/h			
				VMQ	H77440			kvs = 6,3 m³/h				
12	1	Bushing 20x9		PEEK	H315800			kvs = 10 m³/h				
13	1	Yoke	Design 3A-bright finish	1.4308	H321161							
			Design satin finish	1.4308	H157564							
14	1	Hex. screw M6x16	DIN EN 24017	A2-70	H78751							
15	4	Hex. screw M8x16	DIN EN 24017	A2-70	H78772							
16	1	Elbow union	G1/8" Ø6mm slewable		H208825							
17	1	Red. nipple G1/4" G1/8"	G1/8" for actuator 120-750	MS58	H17018							

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Spare parts list:										SPX FLOW				
Modulating valve RG4 - 1" - 3A										Date:	22.06.15	14.11.22		
										Name:	Trytko			
										Approved by:		Waltenb.		
Diaphragm actuator MAT 3271 or MAT 3277 (Spring: closed or open) - 120, 175, 350, 750cm²										Date:				Page 3 of 15
Digital electro-pneumatic positioner										Name:				RN 01.170.1
Flow characteristic: linear or equal percentage										Approved by:				
Item	Quantity	Description	Material	Part no.	Item	Quantity	Description	Material	Part no.					
1	1	Shaft - linear LD*	kvs = 0.25 m³/h		34	1	Valve seat metal sealing	kvs = 0.25 m³/h	1.4404					
			kvs = 0.4 m³/h	H331801				kvs = 0.4 m³/h						
			kvs = 0.63 m³/h	H179617				kvs = 0.63 m³/h						
			kvs = 1.0 m³/h	H179618				kvs = 1.0 m³/h						
			kvs = 1.6 m³/h	H179620				kvs = 1.6 m³/h						
			kvs = 2.5 m³/h	H159476				kvs = 2.5 m³/h						
			kvs = 4.0 m³/h	H159477				kvs = 4.0 m³/h						
			kvs = 6.3 m³/h	H159478				kvs = 6.3 m³/h						
			kvs = 10 m³/h	H159479				kvs = 10 m³/h						
			kvs = 0.25 m³/h	H160657				kvs = 0.25 m³/h						
32	1	Shaft - equal percentage G*	kvs = 0.4 m³/h	H159245	34	1	Valve seat	kvs = 0.4 m³/h	1.4404					
			kvs = 0.63 m³/h	H159244				kvs = 0.63 m³/h						
			kvs = 1.0 m³/h	H159243				kvs = 1.0 m³/h						
			kvs = 1.6 m³/h	H159140				kvs = 1.6 m³/h						
			kvs = 2.5 m³/h					kvs = 2.5 m³/h						
			kvs = 4.0 m³/h	H326212				kvs = 4.0 m³/h						
			kvs = 6.3 m³/h	H207739				kvs = 6.3 m³/h						
			kvs = 10 m³/h	H207038				kvs = 10 m³/h						
			kvs = 0.25 m³/h					kvs = 0.25 m³/h						
			kvs = 0.4 m³/h	H320892				kvs = 0.4 m³/h						
33	1	Shaft - equal percentage GD*	kvs = 0.63 m³/h	H312777	34.1	1	Valve seat with punched cage (noise reduction)	kvs = 0.63 m³/h	1.4404					
			kvs = 1.0 m³/h	H208609				kvs = 1.0 m³/h						
			kvs = 1.6 m³/h	H311745				kvs = 1.6 m³/h						
			kvs = 2.5 m³/h	H159141				kvs = 2.5 m³/h						
			kvs = 4.0 m³/h	H159142				kvs = 4.0 m³/h						
			kvs = 6.3 m³/h	H159143				kvs = 6.3 m³/h						
			kvs = 10 m³/h	H159144				kvs = 10 m³/h						
			EPDM	H77445										
			HNBR	H172173										
			FPM	H77444										
33	1	Seat seal	VMQ	H77443	35	1	Pneumatic actuator MAT 3277 + TROVIS3730-1, IP3730-X, IP3725 see RN 01.170.13-1, RN 01.170.13-2	1.4404	H179830					
					36	1	Pneumatic actuator MAT 3271 + IP763 see RN 01.170.13-3	1.4404	H146941					

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Spare parts list:

Modulating valve RG4 - 1" - 3A

Diaphragm actuator MAT 3271 or MAT 3277 (Spring: closed or open) - 120, 175, 350, 750cm²

Digital electro-pneumatic positioner

Flow characteristic: linear or equal percentage

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Spare parts list:										SPX FLOW				
Modulating valve RG4 - 1,5" - 3A										Date:	16.09.15	13.01.23		
Diaphragm actuator MAT 3271 or MAT 3277 (Spring: closed or open) - 120, 175, 350, 750cm² Digital electro-pneumatic positioner Flow characteristic: linear or equal percentage										Name:	Trytko	Shreshth		
										Approved by:		Waltenb.		
										Date:				
										Name:				
										Approved by:				
										Page	5	of 15		
										RN 01.170.8				
Item	Quantity	Description	Material	Part no.	Item	Quantity	Description	Material	Part no.					
1	1	Housing RG41-1FN1	Design 3A-bright finish	1.4404	H321125	18	1	Mounting plate for stroke indicator	1.4301	H161763				
		19				2	Pan head screw M5x12	DIN EN ISO 1580	1.4301	H127391				
2	1	Flange FGX1	Design 3A-bright finish	1.4404	H321129	20	1	Stroke indicator	1.4301	H161761				
		21				1	Counter nut	M10x1, Stroke: 15mm	1.4301	H162483				
3	1	Seal	FGN1	EPDM	H77296	22	1	Coupling top small	1.4301	H162484				
			FGN1	HNBR	H172141	23	1	Coupling top big	1.4301	H162485				
			FGN1	FPM	H77295	24	1	Driving plate complete	1.4301	H162486				
			FGN1	VMQ	H77294	25	3	Angle bracket	1.4301	H162487				
3.1	1	Seal	FGN1	EPDM	H77292	26	1	Elbow union		H208825				
			FGN1	HNBR	H172131	27	1	Hex. screw M8x70	A2-70	H78803				
			FGN1	FPM	H77291	28	1	Washer	A2-70	H79594				
			FGN1	VMQ	H77290	29	1	Hose		H16541				
4	4	Hex. screw M8x20	DIN EN 24017	H78776	30	3	Electro-pneumatic positioner IP763	Aluminium die casted	H66919					
5	1	Flange FNX1	Design 3A-bright finish	H321128	31	1	without accessory: lever l, spring l (stroke 15mm)							
6	4	Hex. screw M8x28	Design satin finish	H147046	32	1	Red. nipple G1/4" G1/8" for actuator 120-175	MS58	H17018					
7	4	Hex. screw M8x28	DIN EN 24017	H78778	33	2	Red. nipple G1/4" G1/8" for actuator 350-750	MS58	H17018					
8	2	Hex. nut M8	DIN EN 24032	H79281	34	1	Red. nipple G3/4" G1/8" for actuator 350-750	MS58	H17019					
9	2	Housing seal	Ø61	H170018			kvs = 0.63 m³/h	1.4404	H160668					
10	1	Housing cover	Ø61	H77463			kvs = 1.0 m³/h	1.4404	H160669					
11	1	Seat seal	SW4-Ø20mm	1.4404	H156409	Turcon MF6	H323082	EPDM	1.4404	H159401				
12	1	Bushing 20x9		H77442	35	1	Shaft - linear L *							
13	1	Yoke	Design 3A-bright finish	H170176			kvs = 4.0 m³/h							
14	1	Hex. screw M8x16	Design satin finish	HNBR	H77441	H77440	H315800	FPM	1.4404	H169153				
15	4	Hex. screw M8x16	DIN EN 24017	H77440			kvs = 10 m³/h							
16	1	Elbow union	DIN EN 24017	H77440			kvs = 16 m³/h	1.4404	H175757					
17	1	Red. nipple G1/4" G1/8" for actuator 120-750	G1/8" Ø6mm slewable	H78772			kvs = 25 m³/h	1.4404						

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Spare parts list:										SPX FLOW			
Modulating valve RG4 - 1,5" - 3A													
Diaphragm actuator MAT 3271 or MAT 3277 (Spring: closed or open) - 120, 175, 350, 750cm ²										Date: 22.06.15 14.11.22			
Digital electro-pneumatic positioner										Name: Trytko			
Flow characteristic: linear or equal percentage										Approved by: Waltenb.			
										Date:			
										Name:			
										Approved by:			
										Page 6 of 15			
										RN 01.170.1			
Item	Quantity	Description	Material	Part no.	Item	Quantity	Description	Material	Part no.				
32	1	Shaft - linear LD*	kvs = 0.25 m³/h	1.4404	H179617	33	1	Seat seal	EPDM	H77470			
			kvs = 0.4 m³/h	1.4404	H179618								
			kvs = 0.63 m³/h	1.4404	H179620								
			kvs = 1.0 m³/h	1.4404	H159476								
			kvs = 1.6 m³/h	1.4404	H159477								
	1	Shaft - equal percentage G*	kvs = 2.5 m³/h	1.4404	H159478	34	1	Valve seat metal sealing	1.4404	H126763			
			kvs = 4.0 m³/h	1.4404	H159479								
			kvs = 6.3 m³/h	1.4404	H159480								
			kvs = 10 m³/h	1.4404	H159481								
			kvs = 0.25 m³/h	1.4404	H159244								
33	1	Seat seal	kvs = 0.4 m³/h	1.4404	H159243	34.1	1	Valve seat with punched cage (noise reduction)	1.4404	H144862			
			kvs = 0.63 m³/h	1.4404	H159140								
			kvs = 1.0 m³/h	1.4404	H166601								
			kvs = 1.6 m³/h	1.4404	H326212								
			kvs = 2.5 m³/h	1.4404	H207739								
	1	Shaft - equal percentage GD*	kvs = 4.0 m³/h	1.4404	H207038	34.1	1	Valve seat with punched cage (noise reduction)	1.4404	H141520			
			kvs = 6.3 m³/h	1.4404	H331585								
			kvs = 10 m³/h	1.4404	H163545								
			kvs = 0.25 m³/h	1.4404	H312777								
			kvs = 0.4 m³/h	1.4404	H208609								
33	1	Seat seal	kvs = 0.63 m³/h	1.4404	H311745	34.1	1	Valve seat with punched cage (noise reduction)	1.4404	H148260			
			kvs = 1.0 m³/h	1.4404	H159141								
			kvs = 1.6 m³/h	1.4404	H159142								
			kvs = 2.5 m³/h	1.4404	H159143								
			kvs = 4.0 m³/h	1.4404	H159144								
	1	Seat seal	kvs = 6.3 m³/h	1.4404	H159145	34.1	1	Valve seat with punched cage (noise reduction)	1.4404	H148260			
			kvs = 10 m³/h	1.4404	H159146								
			kvs = 0.63 m³/h - kvs = 1.0 m³/h	EPDM	H77445								
			kvs = 1.6 m³/h - kvs = 2.5 m³/h	HNBR	H172173								
			kvs = 4.0 m³/h - kvs = 6.3 m³/h	FPM	H77444								
1	Seat seal	kvs = 10 m³/h	VMQ	H77443	34.1	1	Valve seat with punched cage (noise reduction)	1.4404	H148260				

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Spare parts list:

Modulating valve RG4 - 1,5" - 3A

Diaphragm actuator MAT 3271 or MAT 3277 (Spring: closed or open) - 120, 175, 350, 750cm²

Digital electro-pneumatic positioner

Flow characteristic: linear or equal percentage

[illegible]

Spare parts list:										SPX FLOW		
Modulating valve RG4 - 2" - 3A										Date:	16.09.15	13.01.23
Diaphragm actuator MAT 3271 or MAT 3277 (Spring: closed or open) - 120, 175, 350, 750cm ² Digital electro-pneumatic positioner Flow characteristic: linear or equal percentage										Name:	Trytko	Shreshth
										Approved by:		Waltenb.
										Date:		
										Name:		
										Approved by:		
										Page	8	of 15
										RN 01.170.8		
Item	Quantity	Description	Material	Part no.	Item	Quantity	Description	Material	Part no.			
1	1	Housing RG41-1FN1	Design 3A-bright finish	1.4404	H315798	18	1	Mounting plate for stroke indicator	1.4301	H161763		
		Design satin finish	1.4404	H325762	19	2	Pan head screw M5x12	DIN EN ISO 1580	1.4301	H127391		
2	1	Flange FGX1	Design 3A-bright finish	1.4404	H323830	20	1	Stroke indicator	1.4301	H161761		
			Design satin finish	1.4404	H158847	21	1	Counter nut	M10x1 . Stroke: 15mm	1.4301	H162483	
3	1	Seal	FGN1	EPDM	H77307	22	1	Coupling top small	1.4301	H162484		
			FGN1	HNBR	H172142	23	1	Coupling top big	for actuator 120	1.4301	H162485	
			FGN1	FPM	H77306	24	1	Driving plate complete	for actuator 175-750	1.4301	H162486	
			FGN1	VMQ	H77305	25	3	Angle bracket	for kvs 16-160	1.4301	H162487	
3.1	1	Seal	FGN1	EPDM	H77303	26	1	Elbow union	G1/8" Ø6mm slewable	H208825		
			FGN1	HNBR	H172132	27	1	Hex. screw M8x70	DIN EN 24014	A2-70	H78803	
			FGN1	FPM	H77302	28	1	Washer	DIN 125 A I=8,4	A2-70	H79594	
			FGN1	VMQ	H77301	29	1	Hose	6x1x500		H16541	
4	4	Hex. screw M8x20	DIN EN 24017	H78776	29	1	Electro-pneumatic positioner IP763	Aluminium die casted	H66919			
5	1	Flange FNX1	Design 3A-bright finish	1.4404	H323831	30	3	Red. nipple G1/4" G1/8"	without accessory: lever I, spring I (stroke 15mm)	H17018		
6	4	Hex. screw M8x28	Design satin finish	1.4404	H147047	30	2	Red. nipple G1/4" G1/8"	for actuator 120-175	H17018		
7	4	Hex. nut M8	DIN EN 24017	H78778	31	1	Red. nipple G3/4" G1/8"	for actuator 350-750	MS58	H17019		
8	2	Housing seal	DIN EN 24032	A2	H79281			kvs = 4,0 m³/h				
			Ø73	HNBR	H168714			kvs = 6,3 m³/h				
9	1	Housing cover	Ø73	FPM	H77487	1	Shaft - linear L *	kvs = 10 m³/h				
10	1	Shaft seal	SW4-Ø20mm	1.4404	H148194			kvs = 16 m³/h	1.4404	H169153		
				Turcon MF6	H323082			kvs = 25 m³/h	1.4404	H175757		
				EPDM	H77442			kvs = 40 m³/h	1.4404	H176315		
11	1	Seat seal	HNBR	H170176	32		kvs = 4,0 m³/h	1.4404	H159477			
			FPM	H77441			kvs = 6,3 m³/h	1.4404	H159478			
12	1	Bushing 20x9	VMQ	H77440	1	Shaft - linear LD*	kvs = 10 m³/h	1.4404	H159479			
			PEEK	H315800			kvs = 16 m³/h	1.4404	H159480			
13	1	Yoke	Design 3A-bright finish	1.4308	H311118			kvs = 25 m³/h	1.4404	H149481		
14	1	Hex. screw M8x16	Design satin finish	1.4308	H157567			kvs = 40 m³/h	1.4404	H159482		
			DIN EN 24017	A2-70	H78772							
			DIN EN 24017	A2-70	H78772							
15	4	Hex. screw M8x16	DIN EN 24017	H208825								
16	1	Elbow union	G1/8" Ø6mm slewable	H17018								
17	1	Red. nipple G1/4" G1/8"	for actuator 120-750	H17018								

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Spare parts list:										22.06.15		14.11.22		SPX FLOW	
Modulating valve RG4 - 2" - 3A										Trytko					
Diaphragm actuator MAT 3271 or MAT 3277 (Spring: closed or open) - 120, 175, 350, 750cm²										Approved by:		Waltenb.			
Digital electro-pneumatic positioner										Date:				Page 9 of 15	
Flow characteristic: linear or equal percentage										Name:				RN 01.170.1	
										Approved by:					
Item	Quantity	Description	Material	Part no.	Item	Quantity	Description	Material	Part no.						
32	1	Shaft - equal percentage G*	kvs = 4,0 m³/h	H326212	34	1	Valve seat	kvs = 4,0 m³/h	1.4404	H202927					
			kvs = 6,3 m³/h	1.4404					kvs = 6,3 m³/h	1.4404	H33481				
			kvs = 10 m³/h	1.4404					kvs = 10 m³/h						
			kvs = 16 m³/h	1.4404					kvs = 16 m³/h	1.4404	H33482				
			kvs = 25 m³/h	1.4404					kvs = 25 m³/h						
	1	Shaft - equal D percentage G*	kvs = 40 m³/h	H333827	34	1	Valve seat with punched cage (noise reduction)	kvs = 40 m³/h	1.4404	H33483					
			kvs = 4,0 m³/h	H159142				kvs = 4,0 m³/h							
			kvs = 6,3 m³/h	H159143				kvs = 6,3 m³/h	1.4404	H149114					
			kvs = 10 m³/h	H159144				kvs = 10 m³/h							
			kvs = 16 m³/h	H159145				kvs = 16 m³/h	1.4404	H141521					
	1	Seat seal	kvs = 25 m³/h	H159146	35	1	Pneumatic actuator MAT 3277 + TROVIS3730-1, IP3730-X, IP3725 see RN 01.170.13-1, RN 01.170.13-2	kvs = 25 m³/h	1.4404	H141521					
			kvs = 40 m³/h	H159147				kvs = 40 m³/h	1.4404	H144859					
				EPDM											
			kvs = 4,0 m³/h	H77445											
			kvs = 6,3 m³/h	H172173											
33	1	Seat seal	FPM	H77444	36	1	Pneumatic actuator MAT 3271 + IP763 see RN 01.170.13-3								
			VMQ	H77443											
			EPDM	H77470											
			HNBR	H172175											
			FPM	H77469											
	1	Seat seal	VMQ	H77468											
			EPDM	H77494											
			HNBR	H168709											
			FPM	H77493											
			VMQ	H77492											
34	1	Valve seat metal sealing	kvs = 4,0 m³/h			1	Seal kit	EPDM	H337985						
			kvs = 6,3 m³/h					HNBR	H337987						
			kvs = 10 m³/h					FPM	H337984						
			kvs = 16 m³/h					VMQ	H337986						
			kvs = 25 m³/h												
	*	LD* = linear flow characteristic, soft sealing													
	*	GD* = equal percentage flow characteristic, soft sealing													

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Spare parts list:										SPX FLOW		
Modulating valve RG4 - 2,5" - 3A										Date:	16.09.15	13.01.23
Diaphragm actuator MAT 3271 or MAT 3277 (Spring: closed or open) - 120, 175, 350, 750cm² Digital electro-pneumatic positioner Flow characteristic: linear or equal percentage										Name:	Trytko	Shreshth
										Approved by:		Waltenb.
										Date:		
										Name:		
										Approved by:		
										Date:		
										Name:		
										Approved by:		
										RN 01.170.8		
Item	Quantity	Description	Material	Part no.	Item	Quantity	Description	Material	Part no.			
1	1	Housing RG41-1FN1	Design 3A-bright finish	1.4404	H329378	18	1	Mounting plate for stroke indicator	1.4301	H161763		
		Design satin finish	1.4404	H320101	19	2	Pan head screw M5x12	DIN EN ISO 1580	1.4301	H127391		
2	1	Flange FGX1	Design 3A-bright finish	1.4404	H329383	20	1	Stroke indicator	1.4301	H161761		
		Design satin finish	1.4404	H158848	21	1	Counter nut	M10x1. Stroke: 15mm	1.4301	H162483		
3	1	Seal	FGN1	EPDM	H77318	22	1	Coupling top small	1.4301	H162484		
			FGN1	HNBR	H172143	22	1	Coupling top big	for actuator 120	1.4301	H162485	
			FGN1	FPM	H77317	23	1	Driving plate complete	for actuator 175-750	1.4301	H162486	
			FGN1	VMQ	H77316	24	1	Angle bracket	for kvs 16-160	1.4301	H162487	
3.1	1	Seal	FGN1	EPDM	H77314	25	3	Elbow union	G1/8" Ø6mm slewable	H208825		
			FGN1	HNBR	H172133	26	1	Hex. screw M8x70	DIN EN 24014	A2-70	H78803	
			FGN1	FPM	H77313	27	1	Washer	DIN 125 A I=8,4	A2-70	H79594	
			FGN1	VMQ	H77312	28	1	Hose	6x1x500		H16541	
4	4	Hex. screw M8x20	DIN EN 24017	H78776	29	1	Electro-pneumatic positioner IP763	Aluminium die casted	H66919			
5	1	Flange FNX1	Design 3A-bright finish	H329382	30	3	Red. nipple G1/4" G1/8"	without accessory: lever I, spring I (stroke 15mm)	H17018			
		Design satin finish	1.4404	H147048		2	Red. nipple G1/4" G1/8"	for actuator 120-175	MS58	H17018		
6	4	Hex. screw M8x28	DIN EN 24017	H78778	31	1	Red. nipple G3/4" G1/8"	for actuator 350-750	H17019			
7	4	Hex. nut M8	DIN EN 24032	H79281	32	1	Shaft - linear L *	kvs = 16 m³/h	MS58	H169153		
8	2	Housing seal	Ø81	HNBR				kvs = 25 m³/h	1.4404	H175757		
9	1	Housing cover	Ø81	FPM				kvs = 40 m³/h	1.4404	H176315		
10	1	Shaft seal	SW4-Ø20mm	Turcon MF6				kvs = 63 m³/h				
11	1	Seat seal		EPDM	H77442	32	1	Shaft - linear LD*	kvs = 16 m³/h	1.4404	H159480	
				HNBR	H170176				kvs = 25 m³/h	1.4404	H159481	
				FPM	H77441				kvs = 40 m³/h	1.4404	H159482	
				VMQ	H77440				kvs = 63 m³/h	1.4404	H321259	
12	1	Bushing 20x9		PEEK	H315800							
13	1	Yoke	Design 3A-bright finish	1.4308	H329381							
			Design satin finish	1.4308	H157568							
14	1	Hex. screw M8x16	DIN EN 24017	A2-70	H78772							
15	4	Hex. screw M8x16	DIN EN 24017	A2-70	H78772							
16	1	Elbow union	G1/8" Ø6mm slewable	H208825								
17	1	Red. nipple G1/4" G1/8"	for actuator 120-750	H17018								

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Spare parts list:														
Modulating valve RG4 - 2,5" - 3A														
Diaphragm actuator MAT 3271 or MAT 3277 (Spring: closed or open) - 120, 175, 350, 750cm ²														
Digital electro-pneumatic positioner														
Flow characteristic: linear or equal percentage														
SPX FLOW														
Date: 22.06.15 14.11.22 Name: Trytko Approved by: Waltenb.										Page 11 of 15				
										RN 01.170.1				
Item	Quantity	Description	Material	Part no.	Item	Quantity	Description	Material	Part no.					
32	1	Shaft - equal percentage G*	1.4404	H331585	35	1	Pneumatic actuator MAT 3277 + TROVIS3730-1, IP3730-X, IP3725 see RN 01.170.13-1, RN 01.170.13-2							
			1.4404	H163545										
			1.4404	H333827	36	1	Pneumatic actuator MAT 3271 + IP763 see RN 01.170.13-3							
33	1	Shaft - equal percentage GD*	1.4404	H159145										
			1.4404	H159146										
			1.4404	H159147										
			1.4404	H321260										
34	1	Seat seal	EPDM	H77470			Item 3, 3.1, 8, 10, 11, 12, 33 available as complete seal kits only							
			HNBR	H172175	1	1	Seal kit	EPDM	H337989					
			FPM	H77469	1	1	Seal kit	HNBR	H337991					
			VMQ	H77468	1	1	Seal kit	FPM	H337988					
34.1	1	Seat seal	EPDM	H77494	1	1	Seal kit	VMQ	H337990					
			HNBR	H168709										
			FPM	H77493										
			VMQ	H77492										
34	1	Seat seal	EPDM	H77518										
			HNBR	H172178										
			FPM	H77517										
			VMQ	H77516										
34	1	Valve seat metal sealing												
34.1	1	Valve seat	1.4404	H326912										
			1.4404	H326914										
			1.4404	H33486										
34.1	1	Valve seat with punched cage (noise reduction)	1.4404	H326913	*		LD* = linear flow characteristic, soft sealing							
			1.4404	H326915	*		GD* = equal percentage flow characteristic, soft sealing							
			1.4404	H148263										

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Spare parts list:										SPX FLOW		
Modulating valve RG4 - 3" - 3A										Date:	16.09.15	13.01.23
Diaphragm actuator MAT 3271 or MAT 3277 (Spring: closed or open) - 120, 175, 350, 750cm² Digital electro-pneumatic positioner Flow characteristic: linear or equal percentage										Name:	Trytko	Shreshth
										Approved by:		Waltenb.
										Date:		
										Name:		
										Approved by:		
										Page 12 of 15		
										RN 01.170.8		
Item	Quantity	Description	Material	Part no.	Item	Quantity	Description	Material	Part no.			
1	1	Housing RG41-1FN1	1.4404	H320033	18	1	Mounting plate for stroke indicator	1.4301	H161763			
		Design satin finish	1.4404	H322862	19	2	Pan head screw M5x12	DIN EN ISO 1580	H127391			
2	1	Flange FGX1	1.4404	H320037	20	1	Stroke indicator	Stroke: 15mm	H161761			
		Design satin finish		H158849	21	1	Counter nut	M10x1. Stroke: 15mm	H162483			
3	1	Seal	EPDM	H77332	22	1	Coupling top small	for actuator 120	H162484			
			HNBR	H172144	22	1	Coupling top big	for actuator 175-750	H162485			
			FPM	H77331	23	1	Driving plate complete		H162486			
			VMQ	H77330	24	1	Angle bracket	for kvs 16-160	H162487			
3.1	1	Seal	EPDM	H77332	25	3	Elbow union	G1/8" Ø6mm slewable	H208825			
			HNBR	H172144	26	1	Hex. screw M8x70	DIN EN 24014	A2-70	H78803		
			FPM	H77331	27	1	Washer	DIN 125 A l=8,4	A2-70	H79594		
			VMQ	H77330	28	1	Hose	6x1x500		H16541		
4	4	Hex. screw M8x20	A2-70	H78776	29	1	Electro-pneumatic positioner IP763	Aluminium die casted	H66919			
5	1	Flange FNX1	1.4404	H320036	30	3	Red. nipple G1/4" G1/8"	without accessory: lever l, spring l (stroke 15mm)	H17018			
		Design satin finish	1.4404	H158889		for actuator 120-175	MS58					
6	4	Hex. screw M8x28	A2-70	H78778	2	Red. nipple G1/4" G1/8"	for actuator 350-750	MS58	H17018			
7	4	Hex. nut M8	A2	H79281	1	Red. nipple G3/4" G1/8"	for actuator 350-750	MS58	H17019			
8	2	Housing seal	HNBR	H170013	1	Shaft - linear L *	kvs = 16 m³/h	1.4404	H169153			
			FPM	H77557			kvs = 25 m³/h	1.4404	H175757			
9	1	Housing cover	1.4404	H159895			kvs = 40 m³/h	1.4404	H176315			
10	1	Shaft seal	Turcon MF6	H323082			kvs = 63 m³/h					
11	1	Seat seal	EPDM	H77442	1	Shaft - linear LD*	kvs = 80 m³/h					
			HNBR	H170176			kvs = 16 m³/h	1.4404	H159480			
			FPM	H77441			kvs = 25 m³/h	1.4404	H159481			
			VMQ	H77440			kvs = 40 m³/h	1.4404	H159482			
12	1	Bushing 20x9	PEEK	H315800			kvs = 63 m³/h	1.4404	H159483			
13	1	Yoke	1.4308	H320035	1	Shaft - equal percentage G*	kvs = 80 m³/h	1.4404	H159763			
			1.4308	H159379			kvs = 16 m³/h	1.4404	H331585			
14	1	Hex. screw M8x16	A2-70	H78772			kvs = 25 m³/h	1.4404	H163545			
15	4	Hex. screw M8x16	A2-70	H78772			kvs = 40 m³/h	1.4404	H333827			
16	1	Elbow union		H208825	kvs = 63 m³/h	1.4404	H333843					
17	1	Red. nipple G1/4" G1/8" for actuator 120-750	MS58	H17018	kvs = 80 m³/h							

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Spare parts list:										SPX FLOW			
Modulating valve RG4 - 3" - 3A													
Diaphragm actuator MAT 3271 or MAT 3277 (Spring: closed or open) - 120, 175, 350, 750cm ²										Page 13 of 15			
Digital electro-pneumatic positioner										RN 01.170.1			
Flow characteristic: linear or equal percentage													
Item	Quantity	Description	Material	Part no.	Item	Quantity	Description	Material	Part no.				
32	1	Shaft - equal percentage G*	kvs = 16 m³/h	H159145	34.1	1	Valve seat	kvs = 16 m³/h					
			kvs = 25 m³/h	H159146				kvs = 25 m³/h					
			kvs = 40 m³/h	H159147				kvs = 40 m³/h	1.4404				
			kvs = 63 m³/h	H159148				kvs = 63 m³/h	1.4404				
			kvs = 80 m³/h	H159762				kvs = 80 m³/h	1.4404				
	1	Seat seal	EPDM	H77470	35	1	Pneumatic actuator MAT 3277 + TROVIS3730-1, IP3730-X, IP3725 see RN 01.170.13-1, RN 01.170.13-2						
			HNBR	H172175									
			FPM	H77469									
			VMQ	H77468									
			EPDM	H77494									
33	1	Seat seal	HNBR	H168709									
			FPM	H77493									
			VMQ	H77492									
			EPDM	H77518									
			HNBR	H172178									
	1	Seat seal	FPM	H77517									
			VMQ	H77516									
			EPDM	H77564									
			HNBR	H176688									
			FPM	H77563									
	1	Valve seat metal sealing	VMQ	H77562									
			kvs = 16 m³/h										
			kvs = 25 m³/h										
			kvs = 40 m³/h										
			kvs = 63 m³/h										
	1	Valve seat	kvs = 80 m³/h										
			kvs = 16 m³/h	1.4404				H332539					
			kvs = 25 m³/h										
			kvs = 40 m³/h	1.4404				H33511					
			kvs = 63 m³/h	1.4404				H147062					
			1.4404	H33512									

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Spare parts list:										SPX FLOW			
Modulating valve RG4 - 4" - 3A													
Diaphragm actuator MAT 3271 or MAT 3277 (Spring: closed or open) - 120, 175, 350, 750cm²													
Digital electro-pneumatic positioner													
Flow characteristic: linear or equal percentage													
										Page 14 of 15			
										RN 01.170.8			

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Spare parts list:											
Modulating valve RG4 - 4" - 3A											
Diaphragm actuator MAT 3271 or MAT 3277 (Spring: closed or open) - 120, 175, 350, 750cm ²											
Digital electro-pneumatic positioner											
Flow characteristic: linear or equal percentage											
Item	Quantity	Description	Material	Part no.	Item	Quantity	Description	Material	Part no.		
32	1	Shaft - equal percentage G*	kvs = 63 m³/h		35	1	Pneumatic actuator MAT 3277 + TROVIS3730-1, IP3730-X, IP3725 see RN 01.170.13-1, RN 01.170.13-2				
			kvs = 100 m³/h								
			kvs = 160 m³/h Stroke: 15mm								
			kvs = 160 m³/h Stroke: 30mm								
		1	Shaft - equal percentage GD*	kvs = 63 m³/h	1.4404	H159148					
kvs = 100 m³/h	1.4404			H159149							
kvs = 160 m³/h Stroke: 15mm	1.4404			H175422							
kvs = 160 m³/h Stroke: 30mm											
33	1	Seat seal	EPDM	H77518			Item 3, 3.1, 8, 10, 11, 12, 33 available as complete seal kits only				
			HNBR	H172178							
			FPM	H77517				1	Seal kit	EPDM	H337997
			VMQ	H77516				1	Seal kit	HNBR	H337999
		1	Seat seal	EPDM	H77549						
HNBR	H172180					1	Seal kit	FPM	H337996		
FPM	H77548										
VMQ	H77547										
34	1	Valve seat metal sealing	EPDM	H77589							
			HNBR	H172183							
			FPM	H77588							
			VMQ	H77587							
		1	Valve seat	kvs = 63 m³/h							
kvs = 100 m³/h											
kvs = 160 m³/h Stroke: 15mm											
kvs = 160 m³/h Stroke: 30mm											
34.1	1	Valve seat with punched cage (noise reduction)	kvs = 63 m³/h	1.4404	H33490						
			kvs = 100 m³/h	1.4404	H125799						
			kvs = 160 m³/h Stroke: 15mm	1.4404	H125798						
			kvs = 160 m³/h Stroke: 30mm								
		1	Valve seat with punched cage (noise reduction)	kvs = 63 m³/h	1.4404	H149005	*	LD* = linear flow characteristic, soft sealing			
kvs = 100 m³/h	1.4404			H141526	*	GD* = equal percentage flow characteristic, soft sealing					
kvs = 160 m³/h Stroke: 15mm	1.4404			H152311							
kvs = 160 m³/h Stroke: 30mm											

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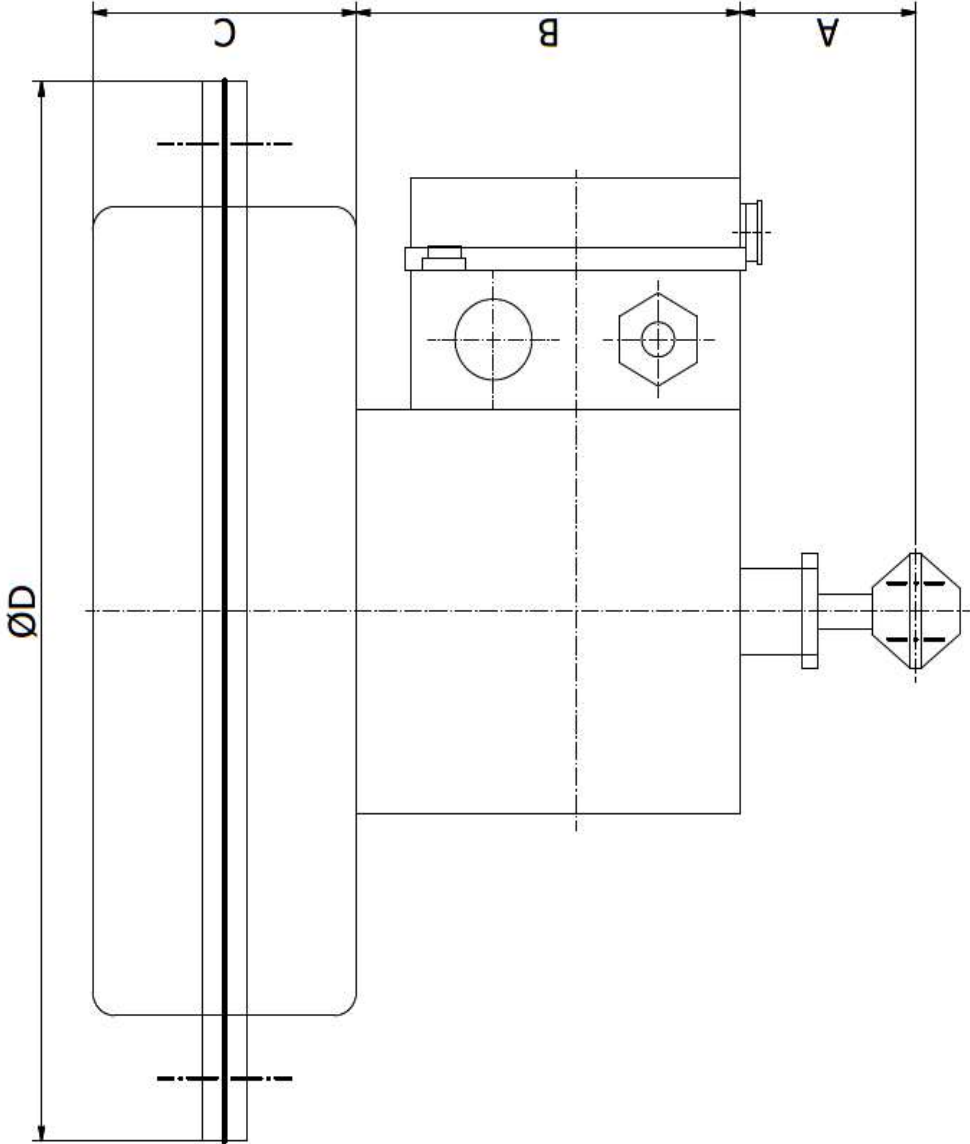
Spare parts list:

RG4 - Pneum. Actuator MAT 3277 spring: closed or open with digital electro-pneumatic positioner 3730

Date:	16.08.11	23.10.13	24.07.15	28.02.17
Name:	Tryko	Tryko	Tryko	C.Keil
Approved by:	Knöchel	Knöchel	Knöchel	
Date:	31.01.23			
Name:	Shreshth			
Approved by:	Waltenb.			

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RN 01.170.13-1



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Spare parts list:

RG4 - Pneum. Actuator MAT 3277 spring: closed or open with digital electro-pneumatic positioner 3730

Date:	16.08.11	23.10.13	24.07.15	28.02.17	SPX FLOW
Name:	Trytko	Trytko	Trytko	C. Keil	
Approved by:	Knöchel	Knöchel	Knöchel		
Date:	31.01.23				Page 2 of 2
Name:	Shreshth				RN 01.170.13-1
Approved by:	Waltenb.				

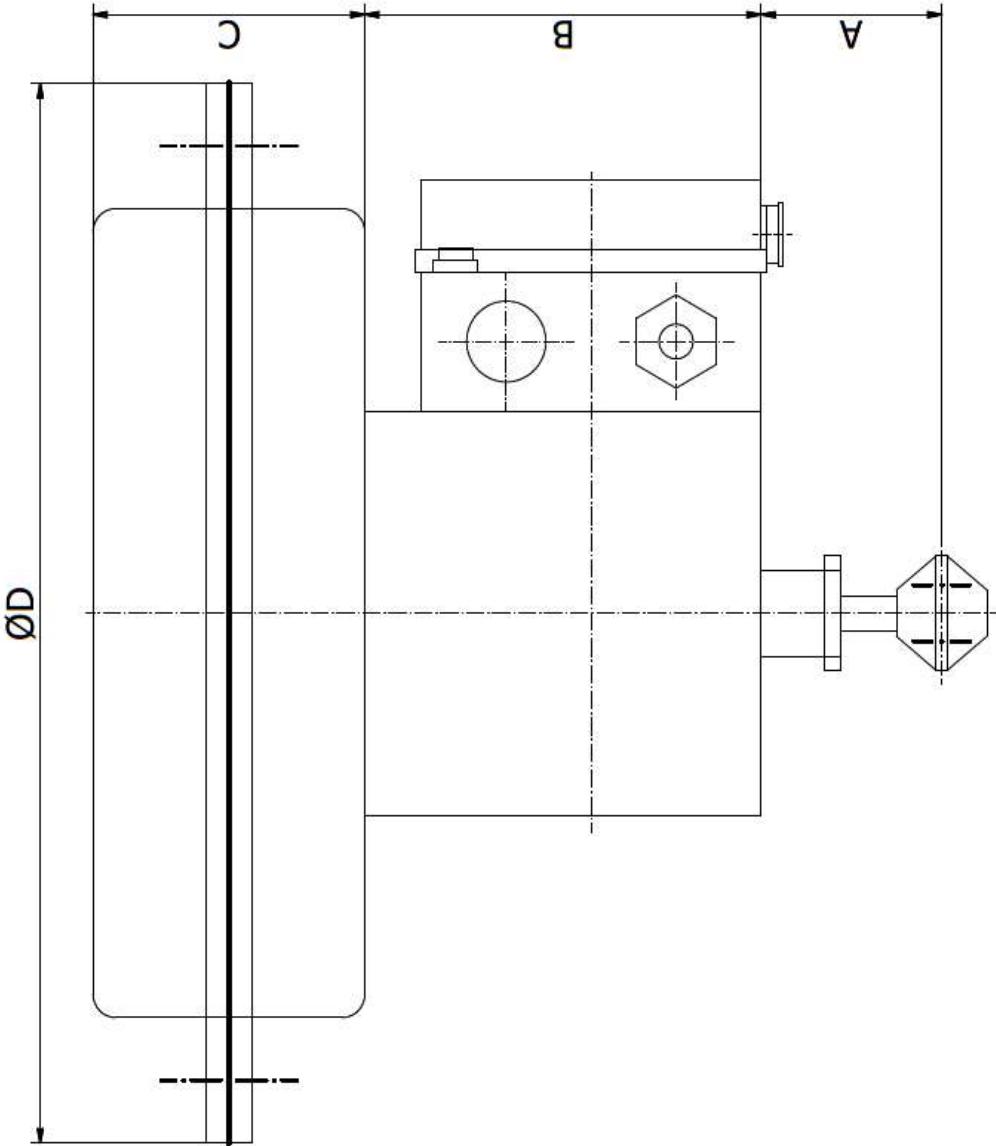
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Spare parts list:

**RG4 - Pneum. Actuator MAT 3277 spring closed and open
with integrated, electro-pneumatic positioner IP 3725**

Date:	16.08.11	20.09.12	23.10.13	24.07.15	SPX FLOW	
Name:	Trytko	Trytko	Trytko	Trytko		
Approved by:	Knöchel	Knöchel	Knöchel	Knöchel		
Date:	28.02.17	31.01.23			Page	1 of 2
Name:	C. Keil	Shreshth			RN 01.170.13-2	
Approved by:		Waltenb.				



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Spare parts list:

RG4 - Pneum. Actuator MAT 3277 spring closed and open with integrated, electro-pneumatic positioner IP 3725

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RN 01.170.13-2

MFH - Membrane actuator normally open

MFS - Membrane actuator normally closed

MFH - Membrane actuator normally open

[illegible]

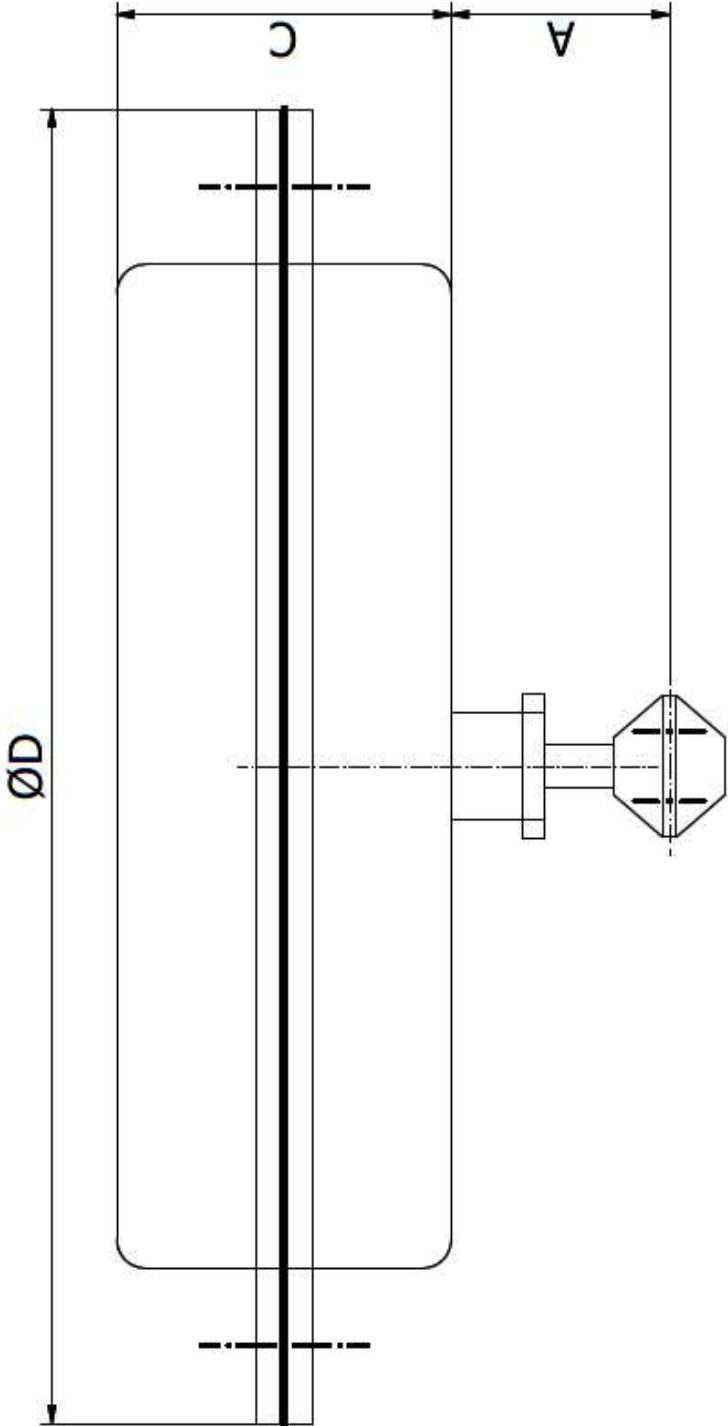
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Spare parts list:

RG4 - Pneumatic actuator MAT 3271 spring closed or open

Date:	21.05.14	24.07.15	02.03.16	02.02.23
Name:	Tryko	Tryko	Tryko	Shreshth
Approved by:	Knöchel	Knöchel	Knöchel	Waltenb.
Date:				
Name:				
Approved by:				

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Spare parts list:

Name:		Trytko	Trytko	Trytko	Shreshth
Approved by:		Knöchel	Knöchel	Knöchel	Waltenb.
Date:					
Name:					
Approved by:					
		Page 2 of 2		SPX FLOW	
				RN 01.170.13-3	

RG4 - Pneumatic actuator MAT 3271 spring closed or open

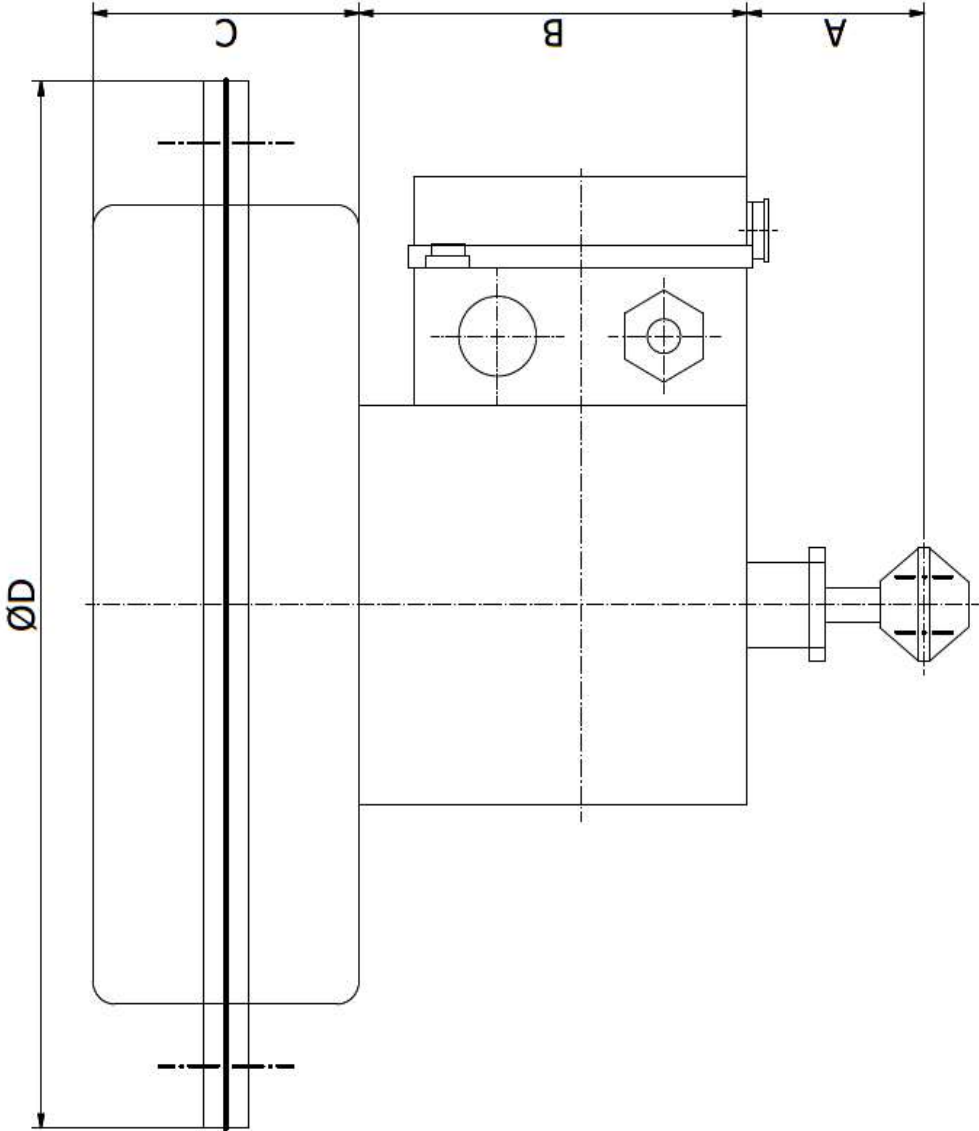
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Spare parts list:

**RG4 - Pneumatic actuator MAT 3277 spring closed or open
with digital el. -pneum. positioner IP 3730-2 special designs**

Date:	13.02.15	24.07.15	10.02.23	SPX FLOW	
Name:	Trytko	Trytko	Shreshth		
Approved by:	Knöchel	Knöchel	Waltenb.		
Date:				Page	1 of 2
Name:				RN 01.170.13-4	
Approved by:					



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Spare parts list:

RG4 - Pneumatic actuator MAT 3277 spring closed or open with digital el. -pneum. positioner IP 3730-2 special designs

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RN 01.170.13-4

Membrane actuator MFS

Membrane actuator MFH

[illegible]

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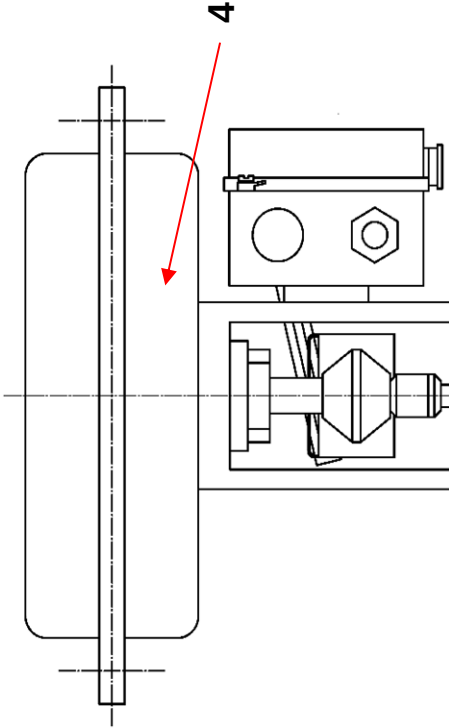
Parts substitution list:

RG41

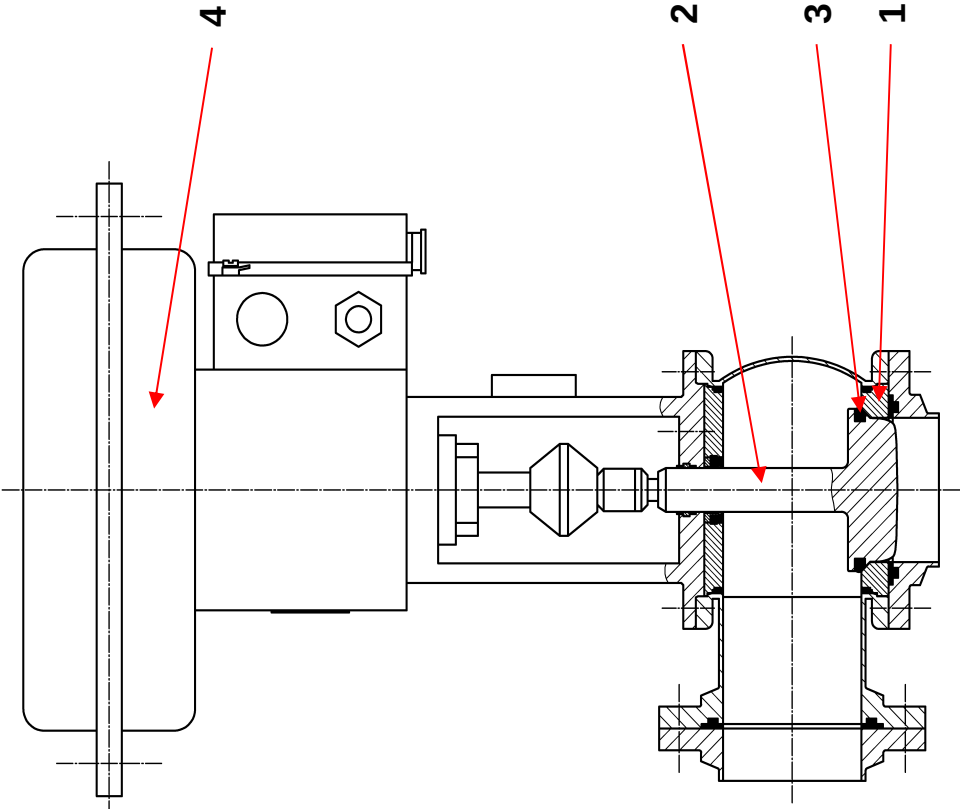
Parts substitution list in case of kvs-value change
(linear and equal-percentage characteristics)

Date:				1997-01-15	2000-04-10	2007-09-28	SPX FLOW	
Name:				Trytko	Trytko	A. Schulz		
Approved by:				Knöb./Pl.	Knöchel	Knöchel		
Date:				2008-02-27	2013-01-09	2023-07-31	Page 1 of 9	
Name:				Trytko	Trytko	Shreshth	RN 261.558	
Approved by:				Knöchel	Knöchel	Waltenb.		

MAT 3271



MAT 3277



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Parts substitution list:									
RG41 - DN25 / 1"									
Parts substitution list in case of kvs-value change (linear and equal-percentage characteristics)									
Size	kvs value [m³/h]	(1) Valve seat	(1) Valve seat with punched cage	(2) Valve shaft		(3) Seat seal	(4) Diaphragm actuator MFS (actuator stem extends) or MFH (actuator stem retracts) MAT 3271 or MAT 3277	SPX FLOW	
				linear characteristics	equal-percentage characteristics			Date:	Page 2 of 9
DN25 / 1"	0,25	RG4-25/Ø4 H160650	-	RG41-25/0,25 L H160658	RG41-25/0,25 G H160657	without	120 cm²	1997-01-15	2007-09-28
	0,4		-	RG41-25/0,4 L H160666	RG41-25/0,4 G H159245			Trytko	A. Schulz
	0,63	RG4-25/Ø8 H126717	-	RG41-25/0,63 L H160668	RG41-25/0,63 G H159244	without		2008-02-27	2023-07-31
			RG4-25/Ø8 D H179615	RG41-25/0,63 LD H179617	Trytko			Waltenb.	
	1,0	RG4-25/Ø8 H126717	-	RG41-25/1,0 L H160669	RG41-25/1,0 G H159243	without		Trytko	Schulz
			RG4-25/Ø8 LK H179830	RG41-25/1,0 LD H179618	EPDM H77445 HNBR H172173 FPM H77444 VMQ H77443				
	1,6	RG4-25/Ø8 H126717	-	RG41-25/1,6 L H159401	RG41-25/1,6 G H159140	without		EPDM H77445 HNBR H172173 FPM H77444 VMQ H77443	
			RG4-25/Ø8 LK H179830	RG41-25/1,6 LD H179620	RG41-25/1,6 GD H311745				
	2,5	RG4-25/Ø13 D H126716	RG4-25/Ø13 LK H146941	RG41-25/2,5 LD	RG41-25/2,5 GD	EPDM H77445 HNBR H172173 FPM H77444 VMQ H77443		H77445	
				H159476	H159141			H172173	
	4,0	RG4-25/Ø26 D H33476	RG4-25/Ø26 LK H146768	RG41-25/4,0 LD	RG41-25/4,0 GD	H77444			
	H159477			H159142	H77443				
	6,3			RG41-25/6,3 LD	RG41-25/6,3 GD				
	10			H159478	H159143				
				RG41-25/10 LD	RG41-25/10 GD				
				H159479	H159144				

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Parts substitution list:													SPX FLOW								
RG41 - DN50 / 2" Parts substitution list in case of kvs-value change (linear and equal-percentage characteristics)													1997-01-15			2000-04-10			2007-09-28		
													Trytko			Trytko			A. Schulz		
													Knö./Pl.			Knöchel			Knöchel		
													Approved by:			Approved by:			Approved by:		
Date:													2008-02-27			2013-01-09			2023-07-31		
Name:													Trytko			Trytko			Waltenb.		
Approved by:													Knöchel			Knöchel			Schulz		
Size	kvs value [m³/h]	(1) Valve seat	(1) Valve seat with punched cage	(2) Valve shaft		(3) Seat seal	(4) Diaphragm actuator MFS (actuator stem extends) or MFH (actuator stem retracts) MAT 3271 or MAT 3277														
				linear characteristics	equal-percentage characteristics																
DN50 / 2"	6,3	RG4-50/Ø26 D H33481	RG4-50/Ø26 LK H149114	RG41-25/6,3 LD H159478	RG41-25/6,3 GD H159143	EPDM HNBR FPM VMQ	H77445 H172173 H77444 H77443 120 cm² 175 cm²														
				RG41-25/10 LD H159479	RG41-25/10 GD H159144																
	16	RG4-50/Ø38 D H33482	RG4-50/Ø38 LK H141521	RG41-40/16 LD H159480	RG41-40/16 GD H159145	EPDM HNBR FPM VMQ	H77470 H172175 H77469 H77468 120 cm² 175 cm² 350 cm²														
				RG41-40/25 LD H159481	RG41-40/25 GD H159146																
	25	RG4-50/Ø50 D H33483	RG4-50/Ø50 LK H144859	RG41-50/40 LD H159482	RG41-50/40 GD H159147	EPDM HNBR FPM VMQ	H77494 H165709 H77493 H77492														
40																					

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Parts substitution list:

RG41 - DN65 / 2,5"

Parts substitution list in case of kvs-value change
(linear and equal-percentage characteristics)

Parts substitution list in case of kvs-value change (linear and equal-percentage characteristics)					1997-01-15			2000-04-10			2007-09-28			SPX FLOW		
					Date:			2000-04-10			2007-09-28					
					Name:			Trytko			A. Schulz					
					Approved by:			Knö. / Pl.			Knöchel					
					Date:			2013-01-09			2023-07-31			Page 5 of 9		
					Name:			Trytko			Waltenb.					
					Approved by:			Knöchel			Schulz			RN 261.558		
Size	kvs value [m³/h]	(1) Valve seat	(1) Valve seat with punched cage	(2) Valve shaft		(3) Seat seal	(4) Diaphragm actuator MFS (actuator stem extends) or MFH (actuator stem retracts) MAT 3271 or MAT 3277									
				linear characteristics	equal-percentage characteristics											
DN65 / 2,5"	16	RG4-65/Ø38 D H33484	RG4-65/Ø38 LK H141524	RG41-40/16 LD H159480	RG41-40/16 GD H159145	EPDM HNBR FPM VMQ										
	25			RG41-40/25 LD H159481	RG41-40/25 GD H159146	H77470 H172175 H77469 H77468										
	40	RG4-65/Ø50 D H33485	RG4-65/Ø50 LK H151522	RG41-50/40 LD H159482	RG41-50/40 GD H159147	EPDM HNBR FPM VMQ										
DN65	63	RG4-65/Ø66 D H33486	RG4-65/Ø66 LK H148263	RG41-65/63 LD H159483	RG41-65/63 GD H159148	EPDM HNBR FPM VMQ										
2,5"	63			RG41-2,5"/63 LD H321259	RG41-2,5"/63 GD H321260	H77518 H172178 H77517 H77516										

175 cm²
350 cm²

RG41 - DN80 / 3"

[illegible]

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Parts substitution list:										SPX FLOW				
RG41 - DN100 / 4"														
Parts substitution list in case of kvs-value change (linear and equal-percentage characteristics)														
Size	kvs value [m³/h]	(1) Valve seat	(1) Valve seat with punched cage	(2) Valve shaft		(3) Seat seal	(4) Diaphragm actuator MFS (actuator stem extends) or MFH (actuator stem retracts) MAT 3271 or MAT 3277							
				linear characteristics	equal-percentage characteristics									
	63	RG4-100/Ø66 D H33490	RG4-100/Ø66 LK H149005	RG41-65/63 LD H159483	RG41-65/63 GD H159148	EPDM HNBR FPM VMQ	H77518 H172178 H77517 H77516	175 cm² 350 cm²						
	100	RG4-100/Ø81 D H125799	RG4-100/Ø81 LK H141526	RG41-80/100 LD H159309	RG41-80/100 GD H159149	EPDM HNBR FPM VMQ	H77549 H172180 H77548 H77547							
	160 Stroke: 15mm	RG4-100/Ø100 D H125798	RG4-100/Ø100 LK H152311	RG4-100/160 LD H167867	RG4-100/160 GD H175422	EPDM HNBR FPM VMQ	H77589 H171183 H77588 H77587	350 cm²						
160 Stroke: 30mm	RG4-100/160 LD H159484			RG4-100/160 GD H159151										

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Parts substitution list:										1997-01-15				2000-04-10	2007-09-28	SPX FLOW					
RG41 - DN150 Parts substitution list in case of kvs-value change (linear and equal-percentage characteristics)										Date:			Trytko		Trytko	A. Schulz					
										Name:			Knö./Pl.		Knöchel	Knöchel					
										Approved by:											
										Date:			2008-02-27		2013-01-09	2023-07-31	Page 9 of 9				
										Name:			Trytko		Trytko	Waltenb.	RN 261.558				
										Approved by:			Knöchel		Knöchel	Schulz					
										(2) Valve shaft			(3) Seat seal			(4) Diaphragm actuator					
										linear characteristics			equal-percentage characteristics						MFS (actuator stem extends) or MFH (actuator stem retracts) MAT 3271 or MAT 3277		
DN150	kvs value [m³/h]	(1) Valve seat	(1) Valve seat with punched cage	RG4-150/Ø100 D H320358	-	RG4-100/160 LD H159484	RG4-100/160 GD H159151		EPDM	H77589	750 cm²										
							H205814	RG41-125/250 LD H202134	HNBR	H171183											
									FPM	H77588											
	250 Stroke: 30mm	RG4-150/Ø125 D H205812	RG4-150/Ø125 LK H205815	RG41-125/250 LD H202134	RG41-125/250 GD H205833	VMQ	H77587														
						EPDM	H77614														
						HNBR	H172189														
400 Stroke: 30mm	RG4-150/Ø150 D H205814	-	RG41-150/400 LD H329845	-	-	EPDM	H77631														
						HNBR	H172190														
						FPM	H77630														
							VMQ	H77612													
							EPDM	H77629													

750 cm²

APV RG4

VANNE DE RÉGULATION



SPX FLOW

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D-59439 Holzwickede, Germany
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PL- Bydgoszcz 85-862, Poland
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