

HP 60 series

HP60/I/E

10

2012

PNEUMATIC & ELECTRIC CONTROL and ON-OFF VALVES
SINGLE SEAT TWO WAY 600 Class
LOW NOISE and ANTI-CAVITATION

VALVOLE DI REGOLAZIONE e ON-OFF PNEUMATICHE ed
ELETTRICHE
SEGGIO SINGOLO DUE VIE classe 600
ANTIRUMORE e ANTICAVITAZIONE



TYPE - TIPO **HP60 RA**

Pneumatic version
Normally close – air opens
Versione pneumatica
Normalmente chiusa – aria apre

TYPE - TIPO **HP60 DA**

Pneumatic version
Normally open – air closes
Versione pneumatica
Normalmente aperta – aria chiude

TYPE - TIPO **HP60 EP**

Electric version
Tension opens and closes
Versione elettrica
Tensione apre e chiude

High Performance - Alte Prestazioni

PED 97/23/CE

MODULE A1 CAT. II – MODULO A1 – CAT. II
CE 1214

ATEX 94/9/CE

II 2 G/D Tx CE 0398
TYPE - TIPO HP60 RA / HP60 DA

TA-Luft 07/2002 – VDI 2440 11/2000 Approved

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CONFLOW s.p.a.
FLOW CONTROL SOLUTIONS



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HP 60 Series

DESCRIPTION

HP 60 series are with a straight body single seat class ANSI 600, with cage guided balanced plug or contoured plug designed to withstand the most severe process conditions.

On cage version the flow is mainly controlled by the special drilled cage, which acts as a continuous and full plug guide along the whole valve travel.

The special plug design allows improving valve rangeability by reducing minimum controllable flow and plug erosion.

The high pressure recovery factor value on cage system compared with contoured plug ensure higher flow rate on compressible fluid service and reduces cavitation risk and effects on liquid service.

All versions have quick change trim.

There are different versions :

Microflow passages on Ø 1".

Contoured unbalanced plug from Ø 1" to Ø 2"

Simple-Double-Triple cage unbalanced plug Ø 1"

Simple-Double-Triple cage balanced plug > Ø 1".

On request all reduced bores are available

Bonnet style, finned and extended is specially designed to comply with all working conditions.

All valves can be equipped by CONFLOW pneumatic control or on-off diaphragm actuators spring return or electric control and on-off actuators tension opens & closes.

MAIN FEATURES

- *Size* from DN 1" to DN 4"
Wide operating temperature – 45 °C to + 425 °C
Up to – 196 °C with optional special extended bonnet
- *Ratings*
ANSI 600 according ASME B16.34
PN 63 – PN 100 according EN 12516-1
- *Standard Connections*
ANSI B16.5 - 600 RF – RJ
EN1092-1 PN 63 form B-C-D-E-F
EN 1092-1 PN 100 form B-C-D-E-F
On request :
ANSI B16.5 -150 / 300 RF – RJ
BW ANSI B16.25
SW up to Ø 2"
- *Finned bonnet as base*
On request extended type for low temperature < - 75 °C
On request bellows seal PN100 for dangerous fluids
- *Stem Packing*
PTFE "V" rings up to 190 °C (Approvato TA-Luft su ric.)
PTFE/GR "V" rings up to 220 °C
(85% PTFE + 15% GRAPHITE)
PURE GRAPHITE up to 300 °C (over 270 °C with lubricator)
- *Special stem packing*
PURE GRAPHITE with labyrinth and lubricator up to 427 °C
- *Trim* quick change – seat & plug with satellite Gr. 6
- *Leakage class* ANSI B16.104 std class IV°
On request class V° and class VI°

DESCRIZIONE

La serie HP 60 è costruita con corpo a globo seggio singolo via diritta classe ANSI 600 , trim a gabbia con pistone bilanciato o otturatore parabolico, è consigliata per severe condizioni di processo industriale.

Nella versione a gabbia il fluido è controllato da uno o più stadi multiforo che guidano costantemente il pistone lungo tutta la corsa.

La configurazione particolare del trim consente alti valori di "rangeability" riducendo anche i fenomeni di erosione degli interni.

Il fattore di recupero dell'alta pressione sul sistema trim a gabbia in comparazione con gli otturatori parabolici assicura una più alta portata su fluidi comprimibili e riduce i rischi legati alla cavitazione sui liquidi.

Tutte le versioni dispongono del sistema cambio veloce del "trim" – interno.

Sono disponibili diverse versioni :

Otturatori microflusso su Ø 1"

Otturatore parabolico da Ø 1" a Ø 2"

Semplice – Doppia – Tripla gabbia con pistone non bilanciato su Ø 1"

Semplice – Doppia – Tripla gabbia con pistone bilanciato da Ø 1.1/2" fino a Ø 4".

A richiesta sono disponibili i passaggi ridotti.

La configurazione del bonnet è del tipo esteso – alettato di serie in grado di lavorare in tutte le condizioni di esercizio previste dal rating.

Tutte le valvole sono equipaggiate con attuatori pneumatici a diaframma di regolazione con molla di ritorno ed on-off originali CONFLOW e con attuatori elettrici tensione apre e chiude.

CARATTERISTICHE PRINCIPALI

- *Diametri* da DN 1" a DN 4"
Ampia gamma di temperature di esercizio da -45 °C a + 425 °C
fino a – 196 °C con prolunga allungata speciale
- *Ratings*
ANSI 600 secondo ASME B16.34
PN 63 – PN 100 secondo EN 12516-1
- *Connessioni standard*
ANSI B16.5 - 600 RF - RJ
EN 1092-1 PN 63 forma B-C-D-E-F
EN 1092-1 PN 100 forma B-C-D-E-F
A richiesta :
ANSI B16.5 – 150 / 300 RF - RJ
BW ANSI B16.25
SW fino a Ø 2"
- *Bonnet alettato di serie*
A richiesta bonnet allungato per basse temperature < - 75 °C
A richiesta prolunga con soffietto PN100 per fluidi pericolosi
- *Premistoppa*
PTFE "V" rings fino a 190 °C (TA-Luft Approved on request)
PTFE/GR "V" rings fino a 220 °C
(85% PTFE – 15% GRAFITE PURA)
GRAFITE PURA fino a 300 °C (sopra 270 °C con lubrificatore)
- *Premistoppa Speciale*
GRAFITE PURA con labirinto e lubrificatore fino a 427 °C
- *Interni* con cambio veloce – sede e otturatore stellati Gr. 6
- *Classificazione perdite* ANSI B16.104 classe IV°
A richiesta classe V° - classe VI°

HP 60 Series

CODE SYSTEM *Body Group* – CODIFICA *Gruppo Corpo*

HP	040	B	60R	FB	CPL	G
Series - Serie	025 = DN 25	B = A216WCB	6B = PN63 form B	FB = full bore pass.pieno	1L = linear simple cage gabbia semp. lineare	T = PTFE packing PTFE premistoppa
	040 = DN 40	C = A351 CF8M	6C = PN63 form C	01 = Ø 1/8"	2L = linear double cage gabbia doppia lineare	R = PTFE/GR packing PTFE/GR premistoppa
	050 = DN 50	L = A352 LCB	6D = PN63 form D	02 = Ø 3/16"	3L = linear triple cage gabbia tripla lineare	G = Graphite packing Premistoppa Grafite
	065 = DN 65	D = A351 CF3M	6E = PN63 form E	03 = Ø 1/4"	1E = equiper. simple cage gabbia semplice EQP	I = Graphite + lubricator Grafite + Ingrassatore
	080 = DN 80	Y = special material material spec.	6F = PN63 form F	04 = Ø 3/8"	2EL = 1 st EQP - 2 nd LIN 1° EQP - 2 nd LIN	L = Graphite + labyrinth + lub. Grafite + labirinto + Ingra.
	100 = DN 100		1B = PN100 form B	05 = Ø 1/2"	3EL = 1 st EQP - 2/3 rd LIN 1° EQP - 2/3 rd LIN	E = Extended PTFE Allungato PTFE
			1C = PN100 form C	06 = Ø 3/4"	CPL = Contoured linear Lineare profilato ≤ DN 50	S = Bellows + Graphite Packing Soffietto e Grafite
			1D = PN100 form D	07 = Ø 1"	CPE = Contoured % EQP profilato ≤ DN 50	
			1E = PN100 form E	08 = Ø 1.1/2"	CPT = Quick opening Apertura rapida ≤ DN 50	
			1F = PN100 form F	09 = Ø 2"	MFP = Contoured linear Lineare profilato ≤ Ø 3/8"	
		6LT = ANSI 600 Large Tongue	15R = ANSI 150 RF	10 = Ø 2.1/2"	1SG = Contoured % 1 milling EQP profilato 1 sg. Ø 3/8" - Ø 1/4"	
		6LG = ANSI 600 Large Groove	15J = ANSI 150 RJ	11 = Ø 3"	2SG = Contoured % 2 milling EQP profilato 2 sg. Ø 3/8" - Ø 1/4"	
		6ST = ANSI 600 Small Tongue	30R = ANSI 300 RF			
		6SG = ANSI 600 Small Groove	30J = ANSI 300 RJ			
		6LM = ANSI 600 Large Male	60R = ANSI 600 RF			
		6LF = ANSI 600 Large Female	60J = ANSI 600 RJ			
		6SM = ANSI 600 Small Male	SW = socket welding			
		6SF = ANSI 600 Small Female	BW = but welding			
					Additional code for Guide bushing	Codici addizionali per bussole guida
					HP025050STGB = Stellite on guide bushing CP trim DN 25 / 50	
					HP025100STGB = Stellite on guide bushing 1L/3L/1EL/3EL trim DN 25 / 100	
					HP025TIGB = S.S. A316 Ti guide bushing CP trim DN 25	
					HP040050TIGB = S.S. A316 Ti guide bushing CP trim DN 40/50	
					HP025100TIGB = S.S. A316 Ti guide bushing 1L/3L/1EL/3EL trim DN 25 / 100	

HP 60 Series

CODE SYSTEM Soft Seal cl. VI° – CODIFICA Tenuta Morbida cl. VI°

HP	025	316	MFP			T	
Series - Serie	025 DN 25	025 = Full Bore Ø 1" Passaggio Pieno Ø 1"	1L	2L	3L	T PTFE cl.V I° soft seal tenuta Morbida	R PTFE/GR cl.V I° soft seal tenuta Morbida
			1E	2EL	3EL		
			CPL	CPE	CPT		
		020 = Reduced Bore Ø 3/4" Passaggio Ridotto Ø 3/4"	CPL	CPE	CPT		
			CPL	CPE	CPT		
		038 = Reduced Bore Ø 3/8" Passaggio Ridotto Ø 3/8"	MFP	1SG	2SG		
	0316=Reduced Bore Ø 3/16" Passaggio Ridotto Ø 3/16"	MFP					
	018 = Reduced Bore Ø 1/8" Passaggio Ridotto Ø 1/8"	MFP					
	040 DN 40	040 = Full Bore Ø 1.1/2" Passaggio Pieno Ø 1.1/2"	1L	2L	3L		
			CPL	CPE	CPT		
		025 = Reduced Bore Ø 1" Passaggio Ridotto Ø 1"	1L	2L	3L		
			CPL	CPE	CPT		
	020 = Reduced Bore Ø 3/4" Passaggio Ridotto Ø 3/4"	CPL	CPE	CPT			
		050 DN 50	050 = Full Bore Ø 2" Passaggio Pieno Ø 2"	1L	2L		
	CPL			CPE	CPT		
	040 = Reduc. Bore Ø 1.1/2" Passaggio Rid. Ø 1.1/2"		1L	2L	3L		
			CPL	CPE	CPT		
	025 = Reduced Bore Ø 1" Passaggio Ridotto Ø 1"	CPL	CPE	CPT			
		065 DN 65	065 = Full Bore Ø 2.1/2" Passaggio Pieno Ø 2.1/2"	1L	2L		
	1E			2EL	3EL		
	050 = Reduced Bore Ø 2" Passaggio Ridotto Ø 2"		1L	2L	3L		
			1E	2EL	3EL		
	040 = Reduc. Bore Ø 1.1/2" Passaggio Rid. Ø 1.1/2"		CPL	CPE	CPT		
			1L	2L	3L		
			1E	2EL	3EL		
			CPL	CPE	CPT		
	080 DN 80	080 = Full Bore Ø 3" Passaggio Pieno Ø 3"	1L	2L	3L		
			1E	2EL	3EL		
		065 = Reduc. Bore Ø 2.1/2" Passaggio Ridotto Ø 2.1/2"	1L	2L	3L		
			1E	2EL	3EL		
		050 = Reduced Bore Ø 2" Passaggio Ridotto Ø 2"	1L	2L	3L		
			1E	2EL	3EL		
	100 DN 100	100 = Full Bore Ø 4" Passaggio Pieno Ø 4"	CPL	CPE	CPT		
			1L	2L	3L		
		080 = Reduced Bore Ø 3" Passaggio Ridotto Ø 3"	1E	2EL	3EL		
			1L	2L	3L		
		065 = Reduc. Bore Ø 2.1/2" Passaggio Ridotto Ø 2.1/2"	1E	2EL	3EL		
			1L	2L	3L		

The code of Soft Seal must be added to standard code of body group

Il codice della Tenuta Morbida va aggiunto al codice standard del gruppo corpo

HP 60 Series

CODE SYSTEM s.s. stud bolts & nuts – CODIFICA prigionieri & dadi inox

HP	025	B8
Series Serie	025 = DN 25	B8 = A304 B8M = A316
	040050 = DN 40/50	
	065080 = DN 65/80	
	100 = DN 100	

The code of s.s. stud bolts & nuts must be added to standard code of body group
Il codice dei prigionieri e dadi inox va aggiunto al codice standard del gruppo corpo

CODE SYSTEM *Pneumatic Actuators* – CODIFICA *Attuatori Pneumatici*

HP	T4	C28	630	
Series - Serie	T2 = T250	C19 = stroke corsa	315 = 3-15 psi DA	(blanc) = std
	T3 = T310	C28 = stroke corsa	618 = 6-18 psi	X = s.s. bolts Viteria inox
	T4 = T400	C50 = stroke corsa	630 = 6-30 psi	
	T5 = T500		35 = 35 psi	

CODE SYSTEM *Electric Actuators* – CODIFICA *Attuatori Elettrici*

HPPSL	1	C28	C
Series – Serie	1 = PSL 201	C19 = stroke corsa	A = 220/230 V AC
	2 = PSL 202	C28 = stroke corsa	B = 110 V AC
	3 = PSL204	C50 = stroke corsa	C = 24 V AC
	4 = PSL210		D = 24 V DC
	5 = PSL214		E = 380/400 V AC
	6 = PSL320		
	7 = PSL325		

* optional codes separate (potentiometers – positioner – switches – electrical heater)
* codici optional a parte (potenziometri – posizionatore – fine corsa – resistenza elettrica)

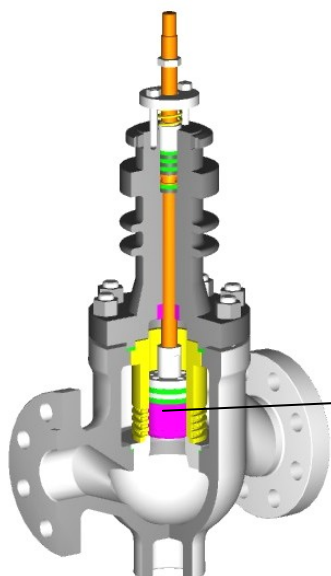
HP 60 Series

CONFIGURATION BODY GROUP

Low Noise

CONFIGURAZIONE GRUPPO CORPO

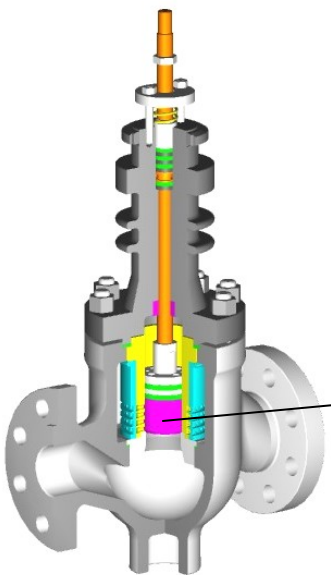
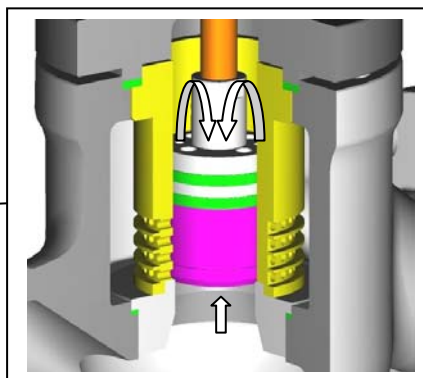
Antirumore



TRIM 1L

LINEAR SIMPLE CAGE from DN 40 to DN 100 BALANCED
(DN 25 not balanced)

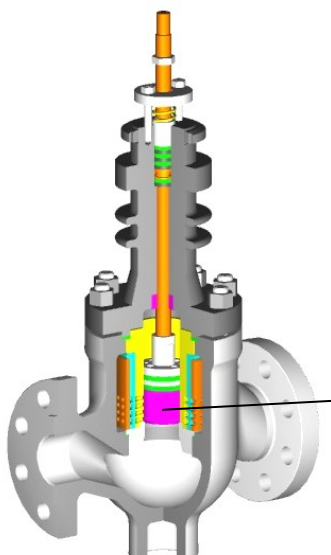
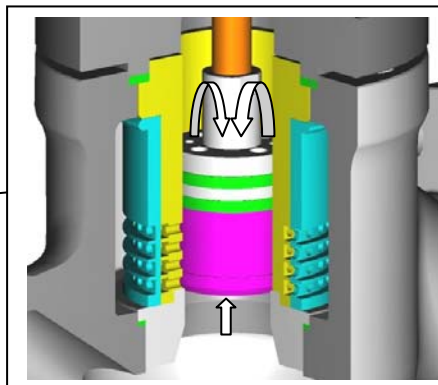
GABBIA SEMPLICE LINEARE dal DN 40 al DN 100 EQUILIBRATA
(DN 25 non equilibrata)



TRIM 2L

LINEAR DOUBLE CAGE from DN 40 to DN 100 BALANCED
(DN 25 not balanced)

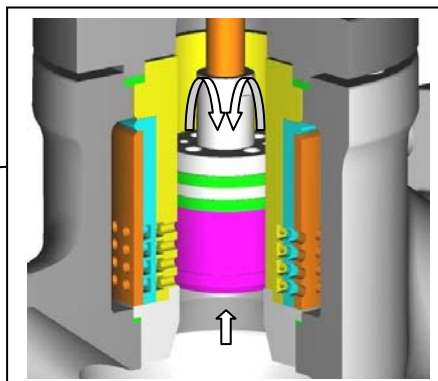
GABBIA DOPPIA LINEARE dal DN 40 al DN 100 EQUILIBRATA
(DN 25 non equilibrata)



TRIM 3L

LINEAR TRIPLE CAGE from DN 40 to DN 100 BALANCED
(DN 25 not balanced)

TRIPLICE GABBIA LINEARE dal DN 40 al DN 100 EQUILIBRATA
(DN 25 non equilibrata)



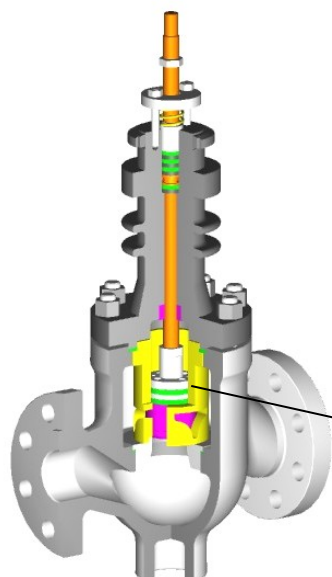
HP 60 Series

CONFIGURATION BODY GROUP

Low Noise

CONFIGURAZIONE GRUPPO CORPO

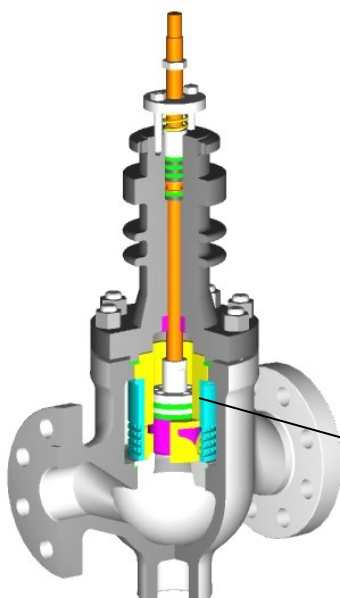
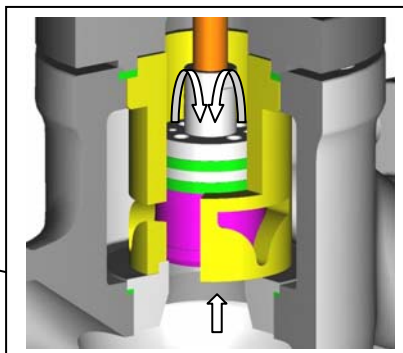
Antirumore



TRIM 1E

EQUIPERCENTAGE SIMPLE CAGE
from DN 40 to DN 100 BALANCED (DN 25 not balanced)

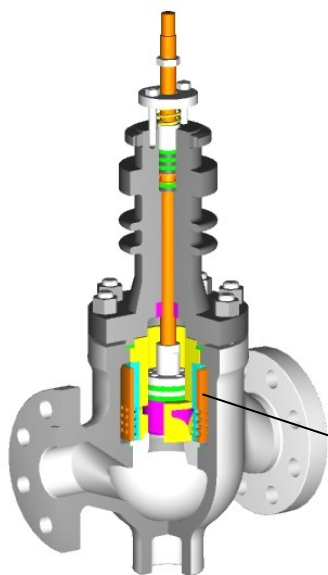
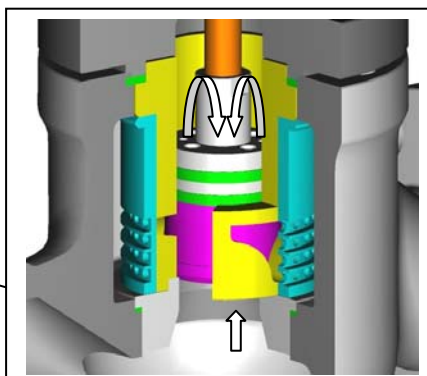
GABBIA SEMPLICE EQUIPERCENTUALE
dal DN 40 al DN 100 EQUILIBRATA (DN 25 non equilibrata)



TRIM 2EL

EQUIPERCENTAGE DOUBLE CAGE
from DN 40 to DN 100 BALANCED (DN 25 not balanced)

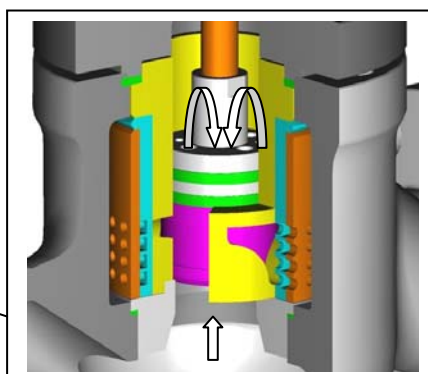
GABBIA DOPPIA EQUIPERCENTUALE
dal DN 40 al DN 100 EQUILIBRATA (DN 25 non equilibrata)



TRIM 3EL

EQUIPERCENTAGE TRIPLE CAGE
from DN 40 to DN 100 BALANCED (DN 25 not balanced)

TRIPLICE GABBIA EQUIPERCENTUALE
dal DN 40 al DN 100 EQUILIBRATA (DN 25 non equilibrata)



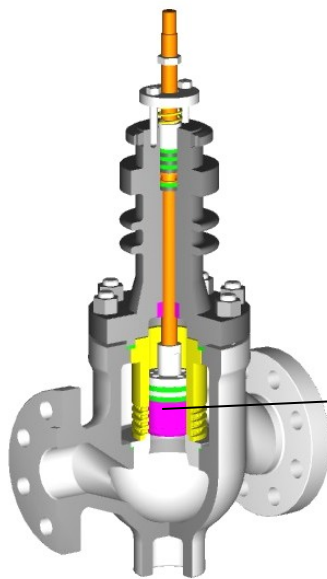
HP 60 Series

CONFIGURATION BODY GROUP
Cavitation's Solution

CONFIGURAZIONE GRUPPO CORPO
Soluzione anti-cavitazione

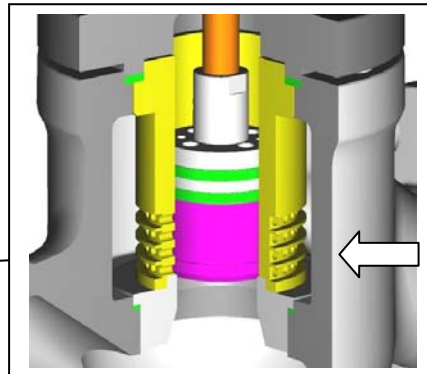
LINEAR SIMPLE CAGE NOT BALANCED

GABBIA SEMPLICE LINEARE NON EQUILIBRATA



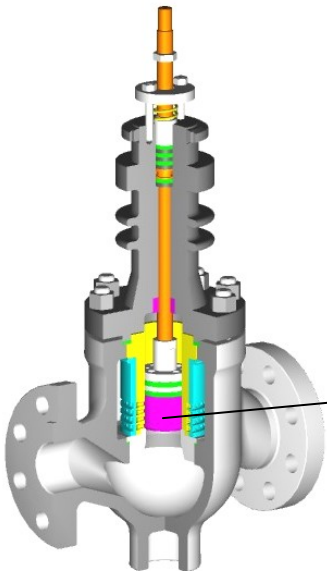
FLOW DIRECTION
DIREZIONE FLUIDO

TRIM 1L



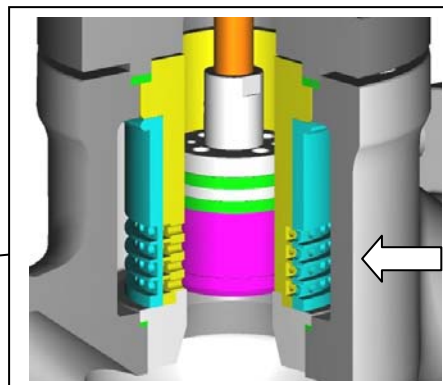
LINEAR DOUBLE CAGE NOT BALANCED

GABBIA DOPPIA LINEARE NON EQUILIBRATA



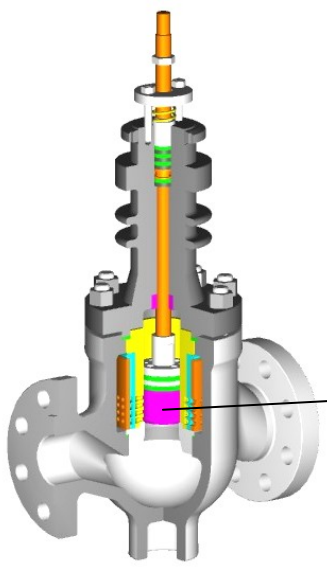
FLOW DIRECTION
DIREZIONE FLUIDO

TRIM 2L



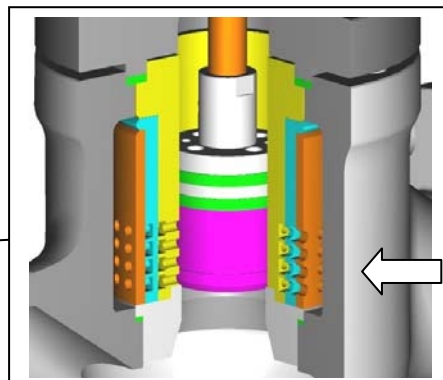
LINEAR TRIPLE CAGE NOT BALANCED

TRIPLICE GABBIA LINEARE NON EQUILIBRATA



FLOW DIRECTION
DIREZIONE FLUIDO

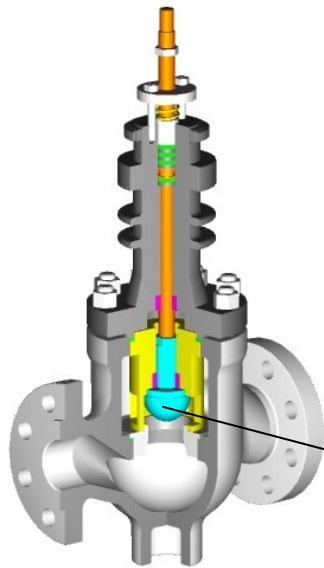
TRIM 3L



HP 60 Series

CONFIGURATION BODY GROUP
Contoured Plug

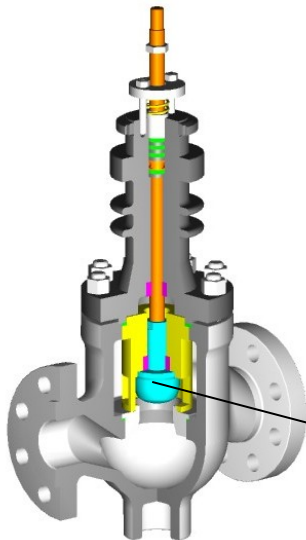
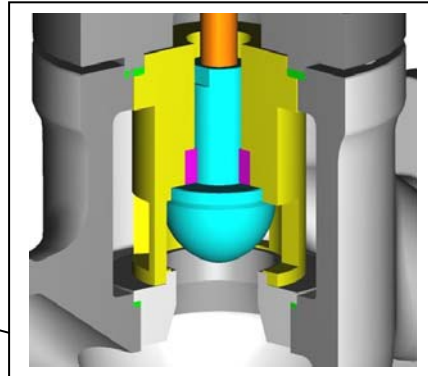
CONFIGURAZIONE GRUPPO CORPO
Otturatori Profilati



TRIM CPL

CONTOURED LINEAR PLUG from DN 25 to DN 50 not balanced

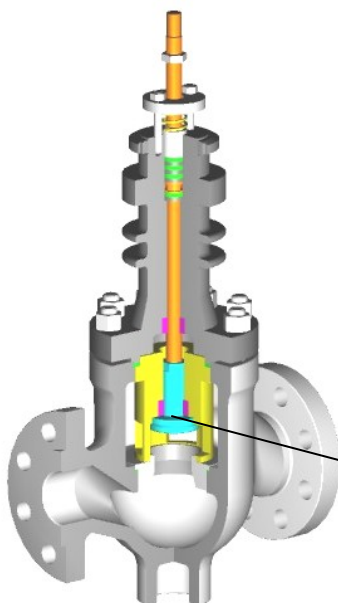
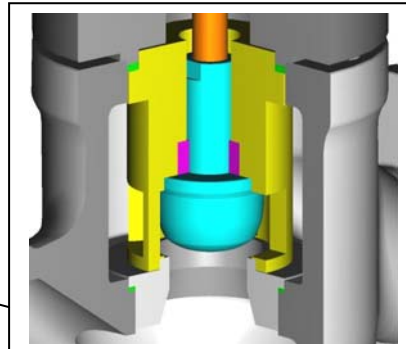
OTTURATORE PROFILATO LINEARE dal DN 25 al DN 50 non bilanciato



TRIM CPE

CONTOURED EQUIPERCENTAGE PLUG from DN 25 to DN 50 not balanced

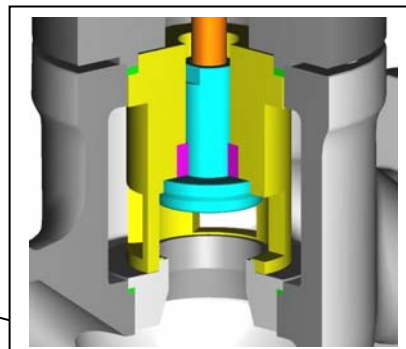
OTTURATORE PROFILATO EQUIPERCENTUALE dal DN 25 al DN 50 non bilanciato



TRIM CPT

QUICK-OPENING PLUG from DN 25 to DN 50 not balanced

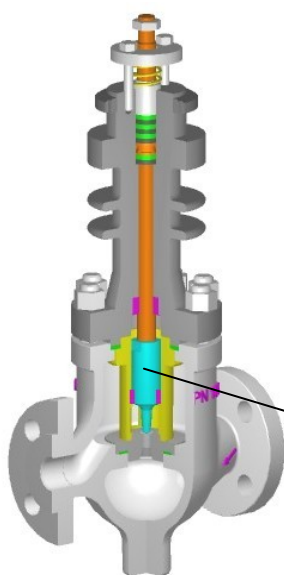
OTTURATORE APERTURA RAPIDA dal DN 25 al DN 50 non bilanciato



HP 60 Series

CONFIGURATION BODY GROUP
Contoured Microflow Plug

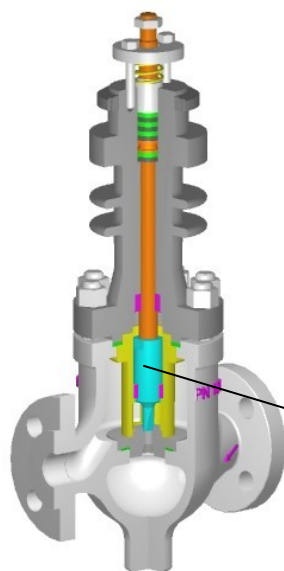
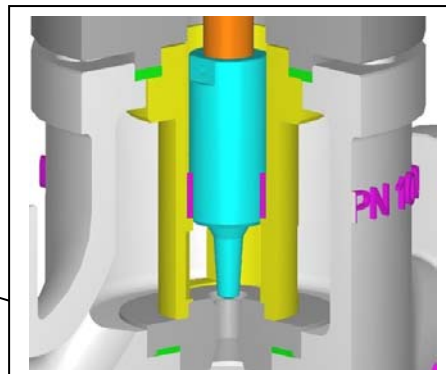
CONFIGURAZIONE GRUPPO CORPO
Otturatori Profilati Microflusso



TRIM MFP

CONTOURED MICROFLOW LINEAR PLUG
DN 25 (Ø 1/8" – 3/16" – 1/4" - 3/8") not balanced

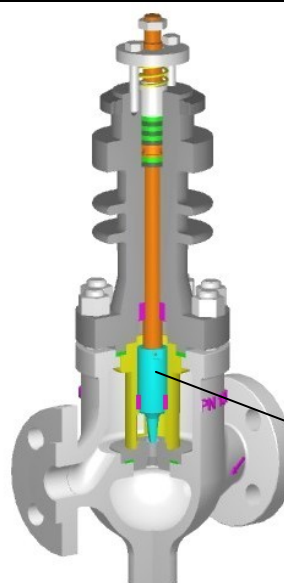
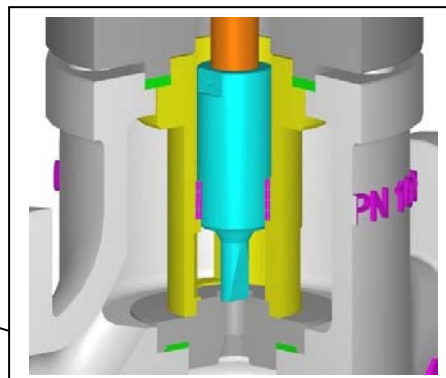
OTTURATORE PROFILATO LINEARE MICROFLUSSO
DN 25 (Ø 1/8" – 3/16" – 1/4" - 3/8") non bilanciato



TRIM 1SG

CONTOURED MICROFLOW EQUIPERCENTAGE PLUG
DN 25 (Ø 1/4" – 3/8") not balanced

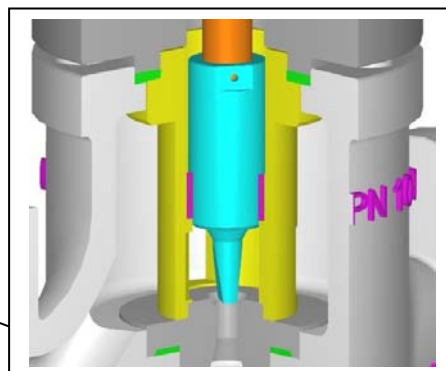
OTTURATORE PROFILATO EQUIPERCENTUALE MICROFLUSSO
DN 25 (Ø 1/4" – 3/8") non bilanciato



TRIM 2SG

CONTOURED MICROFLOW EQUIPERCENTAGE PLUG
DN 25 (Ø 1/4" – 3/8") not balanced

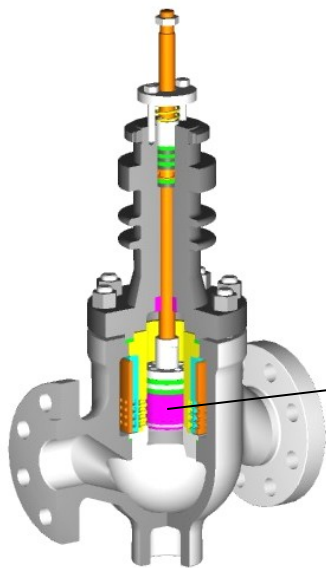
OTTURATORE PROFILATO EQUIPERCENTUALE MICROFLUSSO
DN 25 (Ø 1/4" – 3/8") non bilanciato



HP 60 Series

CONFIGURATION BODY GROUP
Seal insert for leakage class VI

CONFIGURAZIONE GRUPPO CORPO
Inserto tenuta soffice classe VI

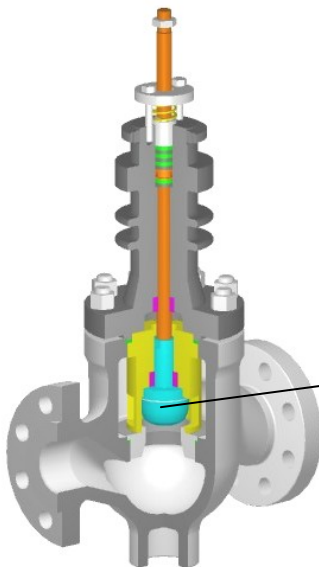
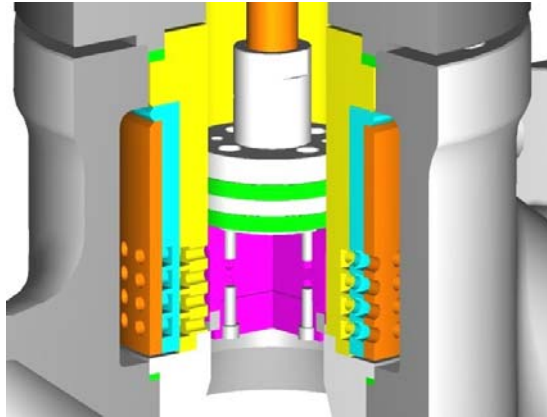


TRIM 1L-2L-3L-1E-2EL-3EL

PTFE or PTFE/GR soft seal DN 25 - 100

TENUTA SOFFICE PTFE o PTFE/GR DN 25 - 100

DETTAGLIO TENUTA SOFFICE

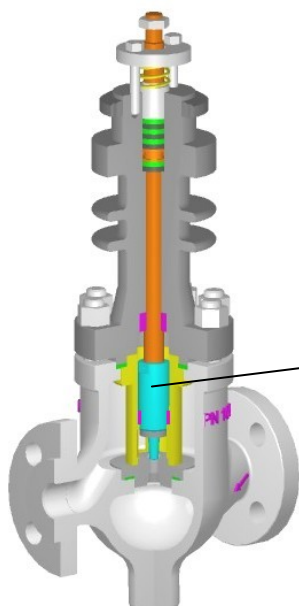
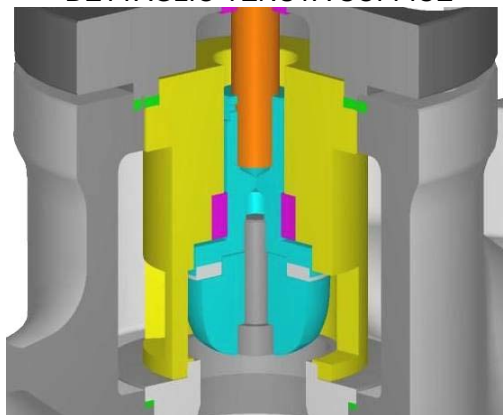


TRIM CPL-CPE-CPT

PTFE or PTFE/GR soft seal DN 25 - 50

TENUTA SOFFICE PTFE o PTFE/GR DN 25 - 50

DETTAGLIO TENUTA SOFFICE

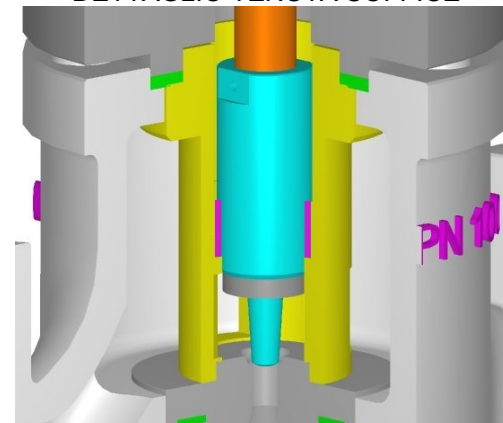


TRIM MFP-1SG-2SG

PTFE or PTFE/GR soft seal DN 25

TENUTA SOFFICE PTFE o PTFE/GR DN 25

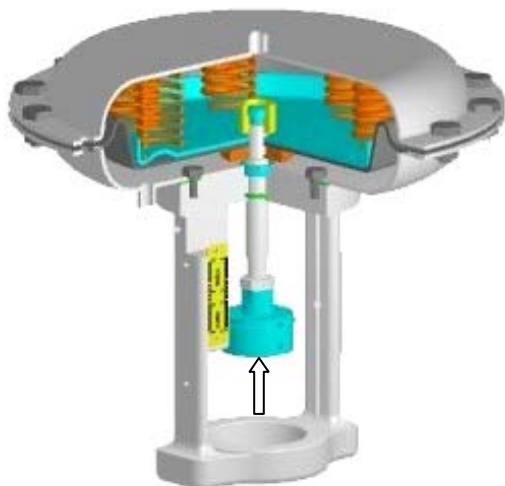
DETTAGLIO TENUTA SOFFICE



HP 60 Series

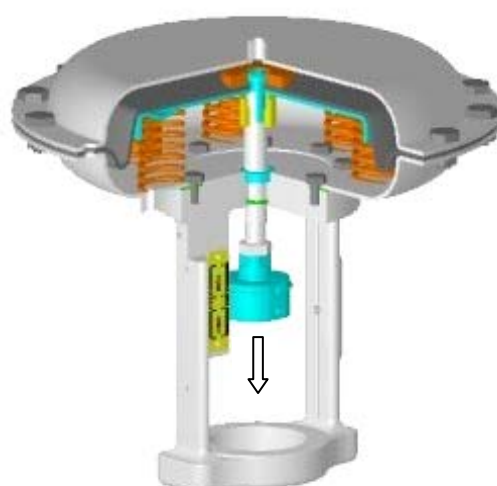
CONFIGURATION DIAPHRAGM PNEUMATIC ACTUATOR

CONFIGURAZIONE ATTUATORE PNEUMATICO A DIAFRAMMA



Type – Tipo RA

REVERSE ACTING Normally Closed - Air Opens
AZIONE ROVESCIA Normalmente Chiuso - Aria Apre



Type – Tipo DA

DIRECT ACTING Normally Open - Air Closes
AZIONE DIRETTA Normalmente Aperto - Aria Chiude

ACCESSORIES

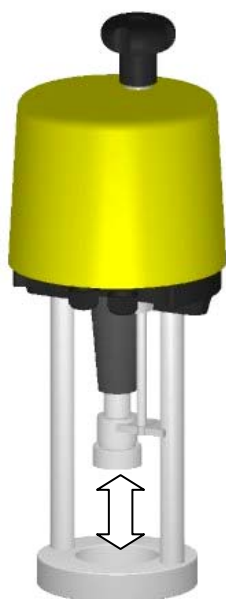
Top Manual handwheel
Pneumatic Analogic Positioner
Electropneumatic Smart Positioner
Air Filter Regulator
Lock-up
Solenoid valve
Mechanical switches
Proximity switches
Air Flow Regulator

ACCESSORI

Volantino manuale di testa
Posizionatore analogico pneumatico
Posizionatore smart elettro-pneumatico
Filtro Riduttore
Rele' di Blocco
Valvola solenoide
Fine corsa meccanici
Fine corsa di prossimità
Regolatore di flusso

CONFIGURATION ELECTRIC ACTUATOR

CONFIGURAZIONE ATTUATORE ELETTRICO



Tension Opens and Closes

Tensione Apre e Chiude

ACCESSORIES Type EP

ACCESSORI Tipo EP

Potentiometer
Double Potentiometer
Card Positioner
Feedback card
Mechanical switches
Heating resistor

Potenziometro
Doppio Potenziometro
Scheda Posizionatore
Scheda Ritrasmissione
Fine Corsa meccanici
Resistenza di riscaldamento

On request :

A richiesta :

Smart Actuator AMS series

Attuatore Smart Serie AMS

ATEX Actuator

Attuatore ATEX

For gas II2(1)G Ex de [ia] IIC T6/T5
For dust

Per gas II2(1)G Ex de [ia] IIC T6/T5
Per Polveri

II2(1)D Ex tD [iaD] A21 IP66 T80°C

II2(1)D Ex tD [iaD] A21 IP66 T80°C

HP 60 Series

CV coefficients (max 100 %)

Coefficiente CV (max 100 %)

VALVE SIZE		PORT	SEAT	TRAVEL	CV max 100 %							
DIAM. VALVOLA		PASS.	SEDE	CORSA	CV max 100 %							
EN	ANSI (inch)	Ø	Ø mm	mm	TYPE OF TRIM – TIPOLOGIA DEL TRIM							
DN	Ø				1L-2L-3L	1E-2EL-3EL	MFP	1SG	2SG	CPL	CPE	CPT
25	1”	1/8”	3,3	19	n.a.	n.a.	0,25	n.a.		n.a.		
		3/16”	5				0,57					
		1/4”	6,5				0,97	0,24	0,46			
		3/8”	9,5				2,07	0,47	0,87			
		1/2”	16				n.a.			5,86	5,86	5,91
		3/4”	21		9,81	9,81				10,18		
		1”	26		15,03	15,03				15,61		
				8.43	7.43							

VALVE SIZE		PORT	SEAT	TRAVEL	CV max 100 %								
DIAM. VALVOLA		PASS.	SEDE	CORSA	CV max 100 %								
EN	ANSI (inch)	Ø	Ø mm	mm	TYPE OF TRIM – TIPOLOGIA DEL TRIM								
DN	Ø				1L	2L	3L	1E	2EL	3EL	CPL	CPE	CPT
40	1.1/2"	1/2"	16	19	n.a.			n.a.			5,86	5,86	5,91
		3/4"	20		n.a.			n.a.			9,81	9,81	10,18
		1"	26		8,43			7,43			15,03	15,03	15,61
		1.1/2"	39	28	22,80			17,33			33,00	29,90	35,10

50	2"	3/4"	20	19	n.a.			n.a.			9,81	9,81	10,18
		1"	26		8,43			7,43			15,03	15,03	15,61
		1.1/2"	39	28	22,88			17,33			33,04	29,93	35,12
		2"	49		36,49			28,51			53,53	47,96	55,45

65	2.1/2"	1"	26	19	8,43			7,43			15,03	15,03	15,61
		1.1/2"	39	28	22,88			17,33			33,04	29,93	35,12
		2"	49		36,49			28,51			53,53	47,96	55,45
		2.1/2"	64	50	65,64			61,92			n.a.		

80	3"	1"	26	19	8,43			7,43			15,03	15,03	15,61
		1.1/2"	39	28	22,88			17,33			33,04	29,93	35,12
		2"	49		36,49			28,51			53,53	47,96	55,45
		2.1/2"	64	50	65,64			61,92			n.a.		
		3"	79		98,7			88,73			n.a.		

100	4"	1"	26	19	8,43			7,43			15,03	15,03	15,61
		1.1/2"	39	28	22,88			17,33			33,04	29,93	35,12
		2"	49		36,49			28,51			53,53	47,96	55,45
		2.1/2"	64	50	65,64			61,92			n.a.		
		3"	79		98,7			88,73			n.a.		
		4"	99		146,77			114,92			n.a.		

n.a. = not applicable / non applicabile

KV = CV x 0.853

Reduced special bore on request / Passaggi ridotti speciali a richiesta

HP 60 Series

CV coefficients (minimum)

Coefficiente CV (minimo)

VALVE SIZE		PORT	TRIM TYPE TIPO di TRIM	Minimum Signal - Minimo Segnale		
DIAM. VALVOLA		PASS.				
EN	ANSI (inch)	Ø		PNEUMATIC VERSION VERSIONE PNEUMATICA		ELECTRIC VERSION VERSIONE ELETTRICA
				TYPE of POSITIONER TIPO di POSIZIONATORE		
				SS2	PPL	
			4,2 Ma	3,5 psi	5,8 mA	

25	1"	1/8"	MFP	0,016	0,017	0,026
		3/16"		0,027	0,036	0,068
		1/4"	MFP	0,036	0,045	0,086
			1SG - 2SG	0,030 (1)	0,030	0,039
		3/8"	MFP	0,057	0,074	0,16
			1SG - 2SG	0,044 (1)	0,044	0,056
		1/2"	CPL	0,26	0,32	0,64
			CPE	0,23	0,24	0,31
		3/4"	CPL	0,34	0,41	0,81
			CPE	0,29	0,30	0,38
		1"	CPL	0,39	0,42	0,74
			CPE	0,37	0,39	0,47
			1L / 2L / 3L	0,53	0,59	0,64
			1E / 2EL / 3EL	0,02	0,03	0,14

40	1.1/2"	1/2"	CPL	0,26	0,32	0,64
			CPE	0,23	0,24	0,31
		3/4"	CPL	0,34	0,41	0,81
			CPE	0,29	0,30	0,38
		1"	CPL	0,39	0,42	0,74
			CPE	0,37	0,39	0,47
			1L / 2L / 3L	0,53	0,59	0,64
			1E / 2EL / 3EL	0,02	0,03	0,14
		1.1/2"	CPL	0,6	0,69	1,02
			CPE	0,58	0,63	0,9
			1L / 2L / 3L	0,58	0,65	0,7
			1E / 2EL / 3EL	0,03	0,1	0,18

50	2"	3/4"	CPL	0,34	0,41	0,81
			CPE	0,29	0,30	0,38
		1"	CPL	0,39	0,42	0,74
			CPE	0,37	0,39	0,47
			1L / 2L / 3L	0,53	0,59	0,64
			1E / 2EL / 3EL	0,02	0,03	0,14
		1.1/2"	CPL	0,6	0,69	1,02
			CPE	0,58	0,63	0,9
			1L / 2L / 3L	0,58	0,65	0,7
			1E / 2EL / 3EL	0,03	0,1	0,18
		2"	CPL	0,73	0,82	1,22
			CPE	0,73	0,82	1,19
			1L / 2L / 3L	0,62	0,69	0,71
			1E / 2EL / 3EL	0,04	0,12	0,2

$$KV = CV \times 0.853$$

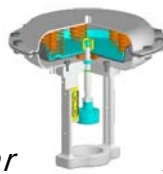
(1) Minimum CV at 4,2 / 4,5 mA - Minimo CV a 4,2 / 4,5 mA

HP 60 Series *CV coefficients (minimum) - Coefficiente CV (minimo)*

VALVE SIZE		PORT	TRIM TYPE TIPO di TRIM	Minimum Signal - Minimo Segnal		
DIAM. VALV.		PASS.		PNEUMATIC VERSION VERSIONE PNEUMATICA		ELECTRIC VERSION
EN	ANSI (inch)	Ø		TYPE of POSITIONER TIPO di POSIZIONATORE		VERSIONE ELETTRICA
				SS2	PPL	
				4,2 Ma	3,5 psi	
				5,8 mA		
65	2.1/2"	1"	CPL	0,39	0,42	0,74
			CPE	0,37	0,39	0,47
			1L / 2L / 3L	0,53	0,59	0,64
			1E / 2EL / 3EL	0,02	0,03	0,14
		1.1/2"	CPL	0,6	0,69	1,02
			CPE	0,58	0,63	0,9
			1L / 2L / 3L	0,58	0,65	0,7
			1E / 2EL / 3EL	0,03	0,1	0,18
		2"	CPL	0,73	0,82	1,22
			CPE	0,73	0,82	1,19
			1L / 2L / 3L	0,62	0,69	0,71
			1E / 2EL / 3EL	0,04	0,12	0,2
		2.1/2"	1L / 2L / 3L	1,4	2,0	2,33
			1E / 2EL / 3EL	0,44	0,48	0,68
80	3"	1"	CPL	0,39	0,42	0,74
			CPE	0,37	0,39	0,47
			1L / 2L / 3L	0,53	0,59	0,64
			1E / 2EL / 3EL	0,02	0,03	0,14
		1.1/2"	CPL	0,6	0,69	1,02
			CPE	0,58	0,63	0,9
			1L / 2L / 3L	0,58	0,65	0,7
			1E / 2EL / 3EL	0,03	0,1	0,18
		2"	CPL	0,73	0,82	1,22
			CPE	0,73	0,82	1,19
			1L / 2L / 3L	0,62	0,69	0,71
			1E / 2EL / 3EL	0,04	0,12	0,2
		2.1/2"	1L / 2L / 3L	1,4	2,0	2,33
			1E / 2EL / 3EL	0,44	0,48	0,68
		3"	1L / 2L / 3L	2,0	2,7	3,0
			1E / 2EL / 3EL	0,54	0,59	0,83
100	4"	1"	CPL	0,39	0,42	0,74
			CPE	0,37	0,39	0,47
			1L / 2L / 3L	0,53	0,59	0,64
			1E / 2EL / 3EL	0,02	0,03	0,14
		1.1/2"	CPL	0,6	0,69	1,02
			CPE	0,58	0,63	0,9
			1L / 2L / 3L	0,58	0,65	0,7
			1E / 2EL / 3EL	0,03	0,1	0,18
		2"	CPL	0,73	0,82	1,22
			CPE	0,73	0,82	1,19
			1L / 2L / 3L	0,62	0,69	0,71
			1E / 2EL / 3EL	0,04	0,12	0,2
		2.1/2"	1L / 2L / 3L	1,4	2,0	2,33
			1E / 2EL / 3EL	0,44	0,48	0,68
		3"	1L / 2L / 3L	2,0	2,7	3,0
			1E / 2EL / 3EL	0,54	0,59	0,83
		4"	1L / 2L / 3L	2,1	2,85	3,1
			1E / 2EL / 3EL	0,67	0,72	0,96

$$KV = CV \times 0.853$$

HP 60 Series



Pressure Drop Table

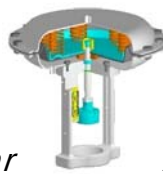
Pneumatic Diaphragm Actuator

Tabella Pressioni differenziali

Attuatori Pneumatici a Diaframma

DN	PORT PASS.	TRAVEL CORSA	TRIM TRIM	ACTUATOR ATTUATORE	SUPPLY 35 PSI		
					ALIMENTAZIONE 35 PSI		
					RA – air to open RA – aria apre		DA – air to close DA – aria chiude
					6-18 psi	6-30 psi	6-30 psi
					ΔP shut-off bar		
25	1/8”	19	MFP	T250	960	1536	2687
	3/16”			T310	418	669	1171
	1/4”		MFP 1SG - 2SG	T250	247	396	693
	3/8”			T310	116	185	324
	1/2”		CPL-CPE-CPT	T250	46	74	130
				T310	76	121	212
	3/4”			T250	26	42	73
				T310	43	77	119
				T400	63	113	176
	1”		CPL-CPE-CPT 1L -2L-3L 1E-2EL-3EL	T250	15	25	43
				T310	25	45	71
				T400	37	67	104
				T500	62	112	174
40	1/2”	19	CPL-CPE-CPT	T250	26	42	73
				T310	43	77	119
				T400	63	113	176
	3/4”			T250	26	42	73
				T310	43	77	119
				T400	63	113	176
	1”	CPL-CPE-CPT 1L -2L-3L 1E-2EL-3EL	T250	15	25	43	
			T310	25	45	71	
			T400	37	67	104	
			T500	62	112	174	
	1.1/2”	28	CPL-CPE-CPT	T310	11	20	31
				T400	17	30	46
				T500	28	50	55
			1L -2L-3L 1E-2EL-3EL	T310	51	92	144
				T400	76	136	211
				T500	126	227	252

HP 60 Series



Pressure Drop Table

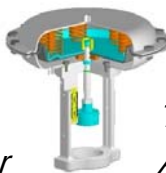
Pneumatic Diaphragm Actuator

Tabella Pressioni differenziali

Attuatori Pneumatici a Diaframma

DN	PORT PASS.	TRAVEL CORSIA	TRIM TRIM	ACTUATOR ATTUATORE	SUPPLY 35 PSI		
					ALIMENTAZIONE 35 PSI		
					RA – air to open RA – aria apre		DA – air to close DA – aria chiude
					6-18 psi	6-30 psi	6-30 psi
					ΔP shut-off bar		
50	3/4"	19	CPL-CPE-CPT	T250	26	42	73
				T310	43	77	119
				T400	63	113	176
	1"	19	CPL-CPE-CPT 1L -2L-3L 1E-2EL-3EL	T250	15	25	43
				T310	25	45	71
				T400	37	67	104
				T500	62	112	174
	1.1/2"	28	CPL-CPE-CPT	T310	11	20	31
				T400	17	30	46
				T500	28	50	55
			1L -2L-3L 1E-2EL-3EL	T310	51	92	144
				T400	76	136	211
				T500	126	227	252
	2"	28	CPL-CPE-CPT	T310	7	13	20
				T400	10	19	29
				T500	17	31	35
			1L -2L-3L 1E-2EL-3EL	T310	42	76	93
				T400	62	111	138
				T500	103	186	195

HP 60 Series



Pressure Drop Table

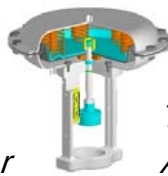
Pneumatic Diaphragm Actuator

Tabella Pressioni differenziali

Attuatori Pneumatici a Diaframma

DN	PORT PASS.	TRAVEL CORSA	TRIM TRIM	ACTUATOR ATTUATORE	SUPPLY 35 PSI		
					ALIMENTAZIONE 35 PSI		
					RA – air to open RA – aria apre		DA – air to close DA – aria chiude
					6-18 psi	6-30 psi	6-30 psi
					ΔP shut-off bar		
65	1"	19	CPL-CPE-CPT 1L-2L-3L 1EL-2EL-3EL	T250	15	25	43
				T310	25	45	71
				T400	37	67	104
				T500	62	112	174
	1.1/2"	28	CPL-CPE-CPT	T310	11	20	31
				T400	17	30	46
				T500	28	50	55
			1L -2L-3L 1E-2EL-3EL	T310	51	92	144
				T400	76	136	211
				T500	126	227	252
	2"	28	CPL-CPE-CPT	T310	7	13	20
				T400	10	19	29
				T500	17	31	35
			1L -2L-3L 1E-2EL-3EL	T310	42	76	93
				T400	62	111	138
				T500	103	186	195
	2.1/2"	50	1L -2L-3L 1E-2EL-3EL	T400	59	95	126
				T500	99	160	183
80	1"	19	CPL-CPE-CPT 1L-2L-3L 1EL-2EL-3EL	T250	15	25	43
				T310	25	45	71
				T400	37	67	104
				T500	62	112	174
	1.1/2"	28	CPL-CPE-CPT	T310	11	20	31
				T400	17	30	46
				T500	28	50	55
			1L -2L-3L 1E-2EL-3EL	T310	51	92	144
				T400	76	136	211
				T500	126	227	252
	2"	28	CPL-CPE-CPT	T310	7	13	20
				T400	10	19	29
				T500	17	31	35
			1L -2L-3L 1E-2EL-3EL	T310	42	76	93
				T400	62	111	138
				T500	103	186	195
	2.1/2"	50	1L -2L-3L 1E-2EL-3EL	T400	59	95	126
				T500	99	160	183
	3"	50	1L -2L-3L 1E-2EL-3EL	T400	55	88	114
				T500	91	147	167

HP 60 Series



Pressure Drop Table

Pneumatic Diaphragm Actuator

Tabella Pressioni differenziali

Attuatori Pneumatici a Diaframma

DN	PORT PASS.	TRAVEL CORSA	TRIM TRIM	ACTUATOR ATTUATORE	SUPPLY 35 PSI			
					ALIMENTAZIONE 35 PSI			
					RA – air to open RA – aria apre		DA – air to close DA – aria chiude	
					6-18 psi	6-30 psi	6-30 psi	
					ΔP shut-off bar			
100	1”	19	CPL-CPE-CPT 1L-2L-3L 1EL-2EL-3EL	T250	15	25	43	
				T310	25	45	71	
				T400	37	67	104	
				T500	62	112	174	
	1.1/2”	28	CPL-CPE-CPT	T310	11	20	31	
				T400	17	30	46	
				T500	28	50	55	
			1L -2L-3L 1E-2EL-3EL	T310	51	92	144	
				T400	76	136	211	
				T500	126	227	252	
			2”	CPL-CPE-CPT	T310	7	13	20
					T400	10	19	29
					T500	17	31	35
	1L -2L-3L 1E-2EL-3EL	T310		42	76	93		
		T400		62	111	138		
		T500		103	186	195		
	2.1/2”	50	1L -2L-3L 1E-2EL-3EL	T400	59	95	126	
				T500	99	160	183	
	T400			55	88	114		
	T500			91	147	167		
	T400			50	81	98		
	T500			84	135	145		

HP 60 Series

Pressure Drop Table
Electric Actuator



Tabella Pressioni differenziali
Attuatori Elettrici

DN	PORT PASS.	TRAVEL CORSA	TRIM TRIM	ACTUATOR ATTUATORE	SUPPLY 24 V AC / DC – 110 V AC – 230 V AC – 400 V3	
					EP – Tension opens & closes EP – Tensione apre & chiude	
					ΔP shut-off bar	Speed / Velocità travel/s – corsa/s
25	1/8”	19	MFP	PSL 201	1074	64
	3/16”				468	
	1/4”		MFP 1SG – 2SG		277	
	3/8”				130	
	1/2”		CPL-CPE-CPT	PSL 201	52	64
				PSL 202	104	32
	3/4”			PSL 201	29	64
				PSL 202	58	32
				PSL 204	132	
	1”		CPL-CPE-CPT 1L -2L-3L 1E-2EL-3EL	PSL 201	17	64
		PSL 202		35	32	
		PSL 204		78		
		PSL 210		173		
	40	1/2”	19	CPL-CPE-CPT	PSL 201	52
		PSL 202			104	32
3/4”		PSL 201			29	64
		PSL 202			58	32
		PSL 204			132	
1”		PSL 201			17	64
		PSL 202			35	32
		PSL 204			78	
		PSL 210			173	
1.1/2”		28	PSL 201		8	94
			PSL 202		15	47
			PSL 204		35	
			PSL 210		77	
			PSL 214		108	52
			1L -2L-3L 1E-2EL-3EL	PSL 201	39	94
				PSL 202	78	47
				PSL 204	156	

HP 60 Series

Pressure Drop Table
Electric Actuator



Tabella Pressioni differenziali
Attuatori Elettrici

DN	PORT PASS.	TRAVEL CORSA	TRIM TRIM	ACTUATOR ATTUATORE	SUPPLY 24 V AC / DC – 110 V AC – 230 V AC – 400 V3	
					EP – Tension opens & closes EP – Tensione apre & chiude	
					ΔP shut-off bar	Speed / Velocità travel/s – corsa/s
50	3/4”	19	CPL-CPE-CPT	PSL 201	29	64
				PSL 202	58	32
				PSL 204	132	
	1”			PSL 201	17	64
				PSL 202	35	32
				PSL 204	78	
				PSL 210	173	
		PSL 201		8	94	
		1.1/2”		PSL 202	15	47
	PSL 204			35		
	PSL 210			77		
	PSL 214			108	52	
	2”			PSL 201	5	94
				PSL 202	10	47
				PSL 204	22	
				PSL 210	49	
				PSL 214	68	52
				PSL 320	103	24
		1L -2L-3L 1E-2EL-3EL	PSL 201	32	94	
	PSL 202		64	47		
	PSL 204		128			

HP 60 Series



Pressure Drop Table
Electric Actuator

Tabella Pressioni differenziali
Attuatori Elettrici

DN	PORT PASS.	TRAVEL CORSIA	TRIM TRIM	ACTUATOR ATTUATORE	SUPPLY 24 V AC / DC – 110 V AC – 230 V AC – 400 V3	
					EP – Tension opens & closes EP – Tensione apre & chiude	
					ΔP shut-off bar	Speed / Velocità
						Travel/s- Corsa/s
65	1"	19		PSL 201	17	64
				PSL 202	35	32
				PSL 204	78	
				PSL 210	173	
	1.1/2"	28	CPL-CPE-CPT	PSL 201	8	94
				PSL 202	15	47
				PSL 204	35	
				PSL 210	77	
				PSL 214	108	52
			1L -2L-3L 1E-2EL-3EL	PSL 201	39	94
				PSL 202	78	47
				PSL 204	156	
			CPL-CPE-CPT	PSL 201	5	94
				PSL 202	10	47
				PSL 204	22	
				PSL 210	49	
				PSL 214	68	52
				PSL 320	103	24
			1L -2L-3L 1E-2EL-3EL	PSL 201	32	94
				PSL 202	64	47
				PSL 204	128	
	2.1/2"	50	1L -2L-3L 1E-2EL-3EL	PSL 201	31	200
				PSL 202	61	100
				PSL 204	122	

HP 60 Series



Pressure Drop Table
Electric Actuator

Tabella Pressioni differenziali
Attuatori Elettrici

DN	PORT PASS.	TRAVEL CORSA	TRIM TRIM	ACTUATOR ATTUATORE	SUPPLY 24 V AC / DC – 110 V AC – 230 V AC – 400 V3		
					EP – Tension opens & closes EP – Tensione apre & chiude		
					ΔP shut-off bar	Speed / Velocità Travel/s- Corsa/s	
80	1”	28	CPL-CPE-CPT	PSL 201	17	64	
				PSL 202	35	32	
				PSL 204	78		
				PSL 210	173		
	PSL 201			8	94		
	PSL 202			15	47		
	PSL 204			35			
	PSL 210			77			
	PSL 214			108	52		
	1L -2L-3L 1E-2EL-3EL		PSL 201	39	94		
			PSL 202	78	47		
			PSL 204	156			
	2”		CPL-CPE-CPT	PSL 201	5	94	
				PSL 202	10	47	
				PSL 204	22		
				PSL 210	49		
				PSL 214	68	52	
				PSL 320	103	24	
			1L -2L-3L 1E-2EL-3EL	PSL 201	32	94	
				PSL 202	64	47	
				PSL 204	128		
	2.1/2”		50	1L -2L-3L 1E-2EL-3EL	PSL 201	31	200
					PSL 202	61	100
					PSL 204	122	
	PSL 201				28	200	
	PSL 202				56	100	
	PSL 204				113		
	3”						

HP 60 Series

Pressure Drop Table
Electric Actuator



Tabella Pressioni differenziali
Attuatori Elettrici

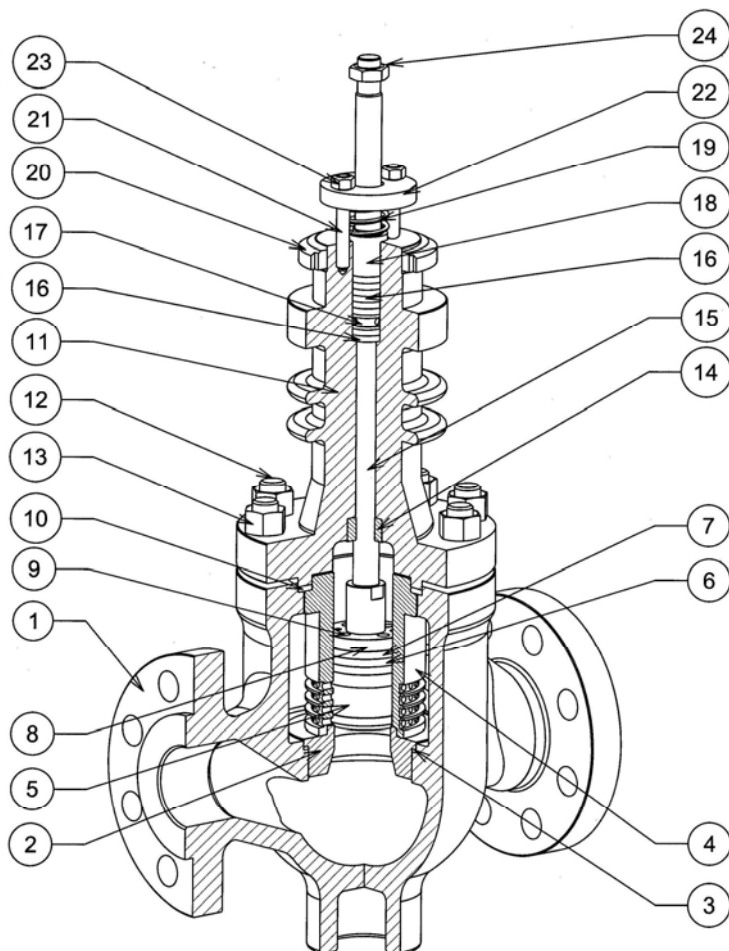
DN	PORT PASS.	TRAVEL CORSA	TRIM TRIM	ACTUATOR ATTUATORE	SUPPLY 24 V AC / DC – 110 V AC – 230 V AC – 400 V3	
					EP – Tension opens & closes EP – Tensione apre & chiude	
					ΔP shut-off bar	Speed / Velocità
						Travel/s- Corsa/s
100	1”	28	CPL-CPE-CPT	PSL 201	17	64
				PSL 202	35	32
				PSL 204	78	
				PSL 210	173	
	PSL 201			8	94	
	PSL 202			15	47	
	PSL 204			35		
	PSL 210			77		
	PSL 214			108	52	
	1L -2L-3L 1E-2EL-3EL		PSL 201	39	94	
			PSL 202	78	47	
			PSL 204	156		
	2”		CPL-CPE-CPT	PSL 201	5	94
				PSL 202	10	47
				PSL 204	22	
				PSL 210	49	
				PSL 214	68	52
				PSL 320	103	24
			1L -2L-3L 1E-2EL-3EL	PSL 201	32	94
				PSL 202	64	47
				PSL 204	128	
	2.1/2”	50	1L -2L-3L 1E-2EL-3EL	PSL 201	31	200
				PSL 202	61	100
				PSL 204	122	
	PSL 201			28	200	
	PSL 202			56	100	
	PSL 204			113		
	PSL 201			26		200
	4”			PSL 202	52	100
				PSL 204	104	

On request different types of actuation speed - A richiesta attuatori con differenti velocità di attuazione

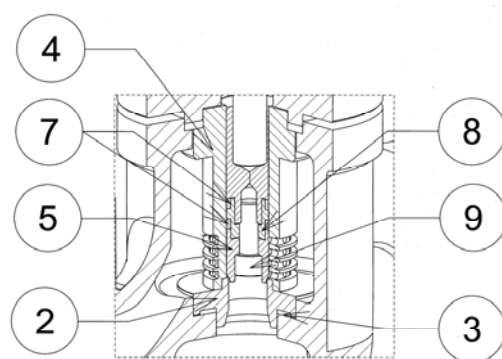
TRIM 1L			CARBON STEEL		STAINLESS STEEL
			Acciaio Carbonio		Acciaio Inox
TEMPERATURE RANGE			- 20 / +425 °C	- 45 / +343 °C	- 196 / +425 °C
Range Temperature					
Item	Description	Descrizione			
1	Body	Corpo	A 216 WCB (1)	A 352 LCB (1)	A351 CF8M
2	Seat	Sede	AISI 316 + stellite		
3	Seat Gasket	Guarnizione Sede	Thermiculite 815		
4	Main Linear Cage	Gabbia principale	AISI 316		
5	Piston	Pistone	AISI 316 + stellite		
5b	Inferior piston plate	Fondello inferiore	AISI 316		
5c	Soft seal class VI°	Anello classe VI°	PTFE or PTFE/GR		
5d	Inferior piston plate screws	Viti serr. inferiori	ISO 4762 Cl. A2		
6	Medium piston plate	Fondello intermedio	AISI 316		
7	Seal Rings	Anelli di Tenuta	Graphite + Antimon / Grafite + Antimonio		
8	Superior piston plate	Fondello Superiore	AISI 316		
9	Piston upper screws	Viti Serr. Pistone	ISO 4762 Cl. A2		
10	Body Gasket	Guarnizione Corpo	Spirometal / Spirotallica – AISI 304 + Graphite		
11	Bonnet	Flangia superiore	A 216 WCB (1)	A 352 LCB (1)	A351 CF8M
12	Body Stud Bolts	Prigionieri corpo	A193 B7 galvanized	A193 B7 (2) galvanized	A193 B7 (2) galvanized
13	Body Nuts	Dadi	A194 2H galvanized	A194 2H (2) galvanized	A194 2H (2) galvanized
14	Guide bushing	Bussola guida	AISI 304		
15	Stem	Stelo	AISI 316		
16	Packing	Premistoppa	Pure Graphite – Grafite Pura		
			PTFE (PTFE V rings 100 %)		
			PTFE/GR (PTFE V RINGS 85% + Graphite V rings 15 %)		
17	Snore-piece packing	Lanterna	AISI 316		
18	Packing Guide	Bussola prem.	AISI 316		
19	Packing Spring	Molla prem.	AISI 302		
20	Yoke Lock Nut	Ghiera blocc. Cast.	Carbon steel Cl. 6S galvanized – Acc. Carb. Zincato Cl. 6S		
21	Packing Stud Bolts	Tiranti prem.	A193 B8		
22	Packing flange	Flangia prem.	AISI 304		
23	Packing Lock Nuts	Dadi tiranti prem.	A 194 Gr.8		
24	Stem nut	Dado serr. Stelo	A 194 Gr.8		

- (1) Silicon high temperature painture up to 600 °C 25 µ
(2) For temperature < - 20 °C s.s. A193 B8 + A194 Gr.8

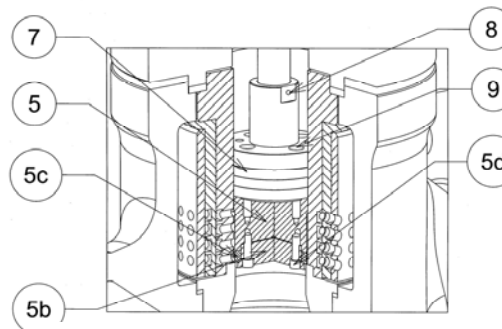
Verniciatura siliconica resistente alle alte temperature 600 °C 25 µ
Per temperature < - 20 °C Acc. Inox A193 B8 + A194 Gr.8



DN 40-100



DN 25

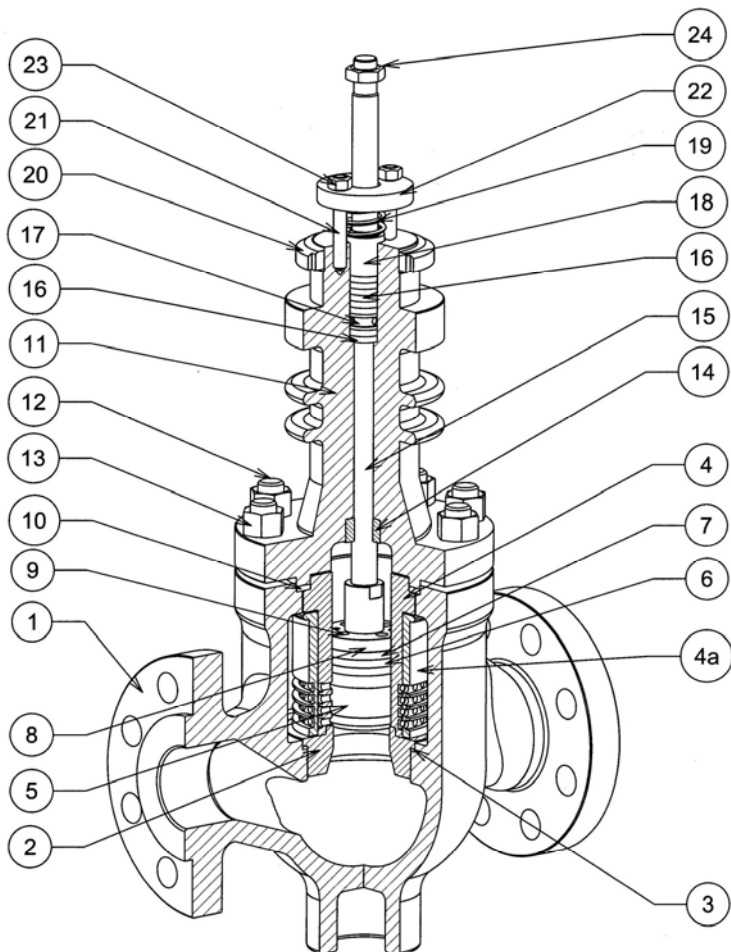


SOFT SEAL Detail
Dettaglio TENUTA SOFFICE

TRIM 2L			CARBON STEEL		STAINLESS STEEL
			Acciaio Carbonio		Acciaio Inox
TEMPERATURE RANGE			- 20 / +425 °C	- 45 / +343 °C	- 196 / +425 °C
Range Temperature					
Item	Description	Descrizione			
1	Body	Corpo	A 216 WCB (1)	A 352 LCB (1)	A351 CF8M
2	Seat	Sede	AISI 316 + stellite		
3	Seat Gasket	Guarnizione Sede	Thermiculite 815		
4	Main Linear Cage	Gabbia principale	AISI 316		
4a	Second Cage	Seconda Gabbia	AISI 316		
5	Piston	Pistone	AISI 316 + stellite		
6	Medium piston plate	Fondello intermedio	AISI 316		
7	Seal Rings	Anelli di Tenuta	Graphite + Antimon / Grafite + Antimonio		
8	Superior piston plate	Fondello Superiore	AISI 316		
9	Piston Screws	Viti Serr. Pistone	ISO 4762 Cl. A2		
10	Body Gasket	Guarnizione Corpo	Spirometal / Spirotallica – AISI 304 + Graphite		
11	Bonnet	Flangia superiore	A 216 WCB (1)	A 352 LCB (1)	A351 CF8M
12	Body Stud Bolts	Prigionieri corpo	A193 B7 galvanized	A193 B7 (2) galvanized	A193 B7 (2) galvanized
13	Body Nuts	Dadi	A194 2H galvanized	A194 2H (2) galvanized	A194 2H (2) galvanized
14	Guide bushing	Bussola guida	AISI 304		
15	Stem	Stelo	AISI 316		
16	Packing	Premistoppa	Pure Graphite – Grafite Pura		
			PTFE (PTFE V rings 100 %)		
			PTFE/GR (PTFE V RINGS 85% + Graphite V rings 15 %)		
17	Snore-piece packing	Lanterna	AISI 316		
18	Packing Guide	Bussola prem.	AISI 316		
19	Packing Spring	Molla prem.	AISI 302		
20	Yoke Lock Nut	Ghiera blocc. Cast.	Carbon steel Cl. 6S galvanized – Acc. Carb. Zincato Cl. 6S		
21	Packing Stud Bolts	Tiranti prem.	A193 B8		
22	Packing flange	Flangia prem.	AISI 304		
23	Packing Lock Nuts	Dadi tiranti prem.	A 194 Gr.8		
24	Stem nut	Dado serr. Stelo	A 194 Gr.8		

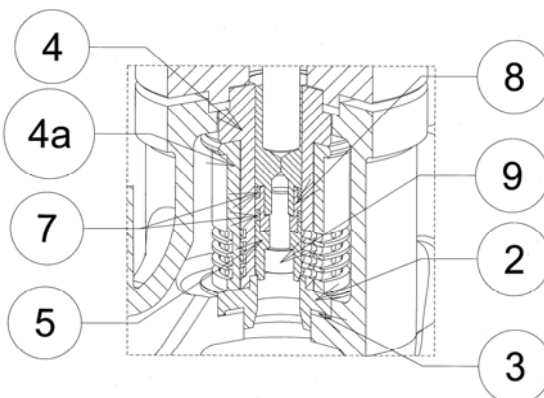
- (1) Silicon high temperature painture up to 600 °C 25 µ
 (2) For temperature < - 20 °C s.s. A193 B8 + A194 Gr.8

Verniciatura siliconica resistente alle alte temperature 600 °C 25 µ
 Per temperature < - 20 °C Acc. Inox A193 B8 + A194 Gr.8



DN 50 - 100

For soft seal class VI° see TRIM 1L
 Per la tenuta soffice classe VI°
 vedi TRIM 1L



DN 25 - 40

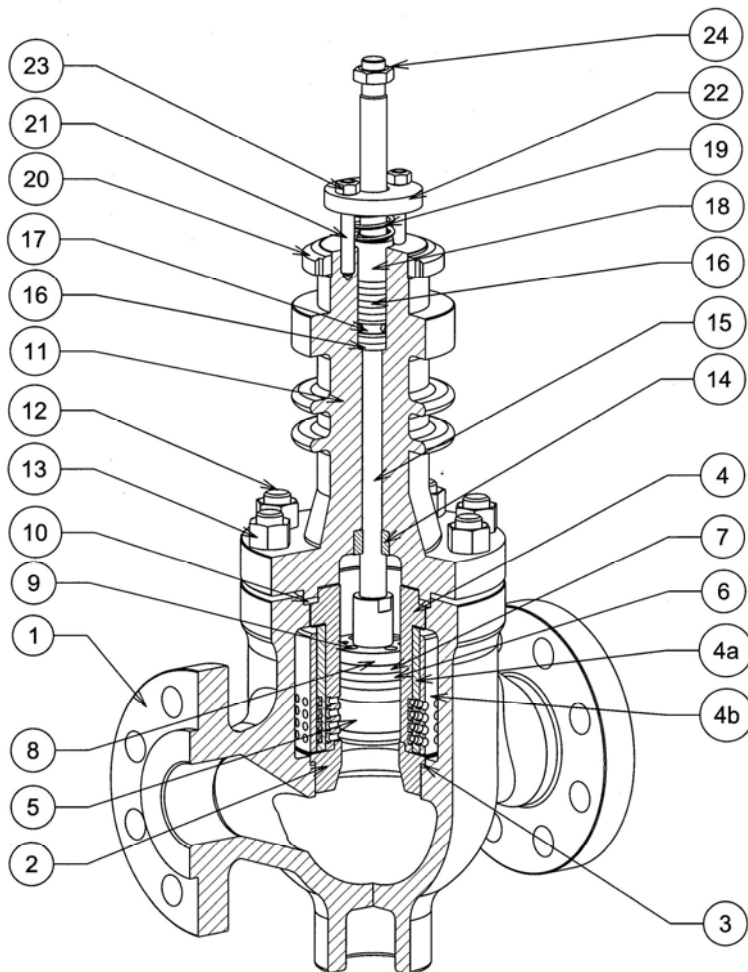
TRIM 3L			CARBON STEEL		STAINLESS STEEL
			Acciaio Carbonio		Acciaio Inox
TEMPERATURE RANGE			- 20 / +425 °C	- 45 / +343 °C	- 196 / +425 °C
Range Temperature					
Item	Description	Descrizione			
1	Body	Corpo	A 216 WCB (1)	A 352 LCB (1)	A351 CF8M
2	Seat	Sede	AISI 316 + stellite		
3	Seat Gasket	Guarnizione Sede	Thermiculite 815		
4	Main Linear Cage	Gabbia principale	AISI 316		
4a	Second Cage	Seconda Gabbia	AISI 316		
4b	Third Cage	Terza Gabbia	AISI 316		
5	Piston	Pistone	AISI 316 + stellite		
6	Medium piston plate	Fondello intermedio	AISI 316		
7	Seal Rings	Anelli di Tenuta	Graphite + Antimon / Grafite + Antimonio		
8	Superior piston plate	Fondello Superiore	AISI 316		
9	Piston Screws	Viti Serr. Pistone	ISO 4762 Cl. A2		
10	Body Gasket	Guarnizione Corpo	Spirometal / Spirotallica – AISI 304 + Graphite		
11	Bonnet	Flangia superiore	A 216 WCB (1)	A 352 LCB (1)	A351 CF8M
12	Body Stud Bolts	Prigionieri corpo	A193 B7 galvanized	A193 B7 (2) galvanized	A193 B7 (2) galvanized
13	Body Nuts	Dadi	A194 2H galvanized	A194 2H (2) galvanized	A194 2H (2) galvanized
14	Guide bushing	Bussola guida	AISI 304		
15	Stem	Stelo	AISI 316		
16	Packing	Premistoppa	Pure Graphite – Grafite Pura		
			PTFE (PTFE V rings 100 %)		
			PTFE/GR (PTFE V RINGS 85% + Graphite V rings 15 %)		
17	Snore-piece packing	Lantern	AISI 316		
18	Packing Guide	Bussola prem.	AISI 316		
19	Packing Spring	Molla prem.	AISI 302		
20	Yoke Lock Nut	Ghiera blocc. Cast.	Carbon steel Cl. 6S galvanized – Acc. Carb. Zincato Cl. 6S		
21	Packing Stud Bolts	Tiranti prem.	A193 B8		
22	Packing flange	Flangia prem.	AISI 304		
23	Packing Lock Nuts	Dadi tiranti prem.	A 194 Gr.8		
24	Stem nut	Dado serr. Stelo	A 194 Gr.8		

(1) Silicon high temperature painture up to 600 °C 25 µ

(2) For temperature < - 20 °C s.s. A193 B8 + A194 Gr.8

Verniciatura siliconica resistente alle alte temperature 600 °C 25 µ

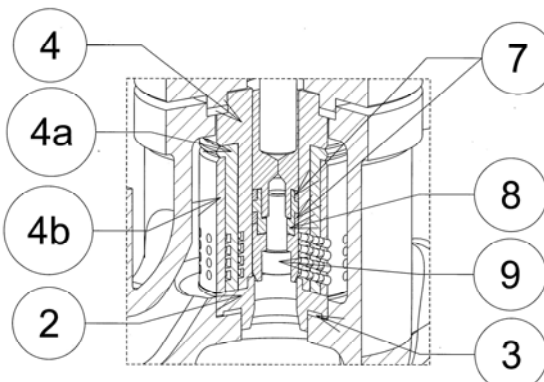
Per temperature < - 20 °C Acc. Inox A193 B8 + A194 Gr.8



DN 50 - 100

For soft seal class VI° see TRIM 1L

Per la tenuta soffice classe VI°
vedi TRIM 1L

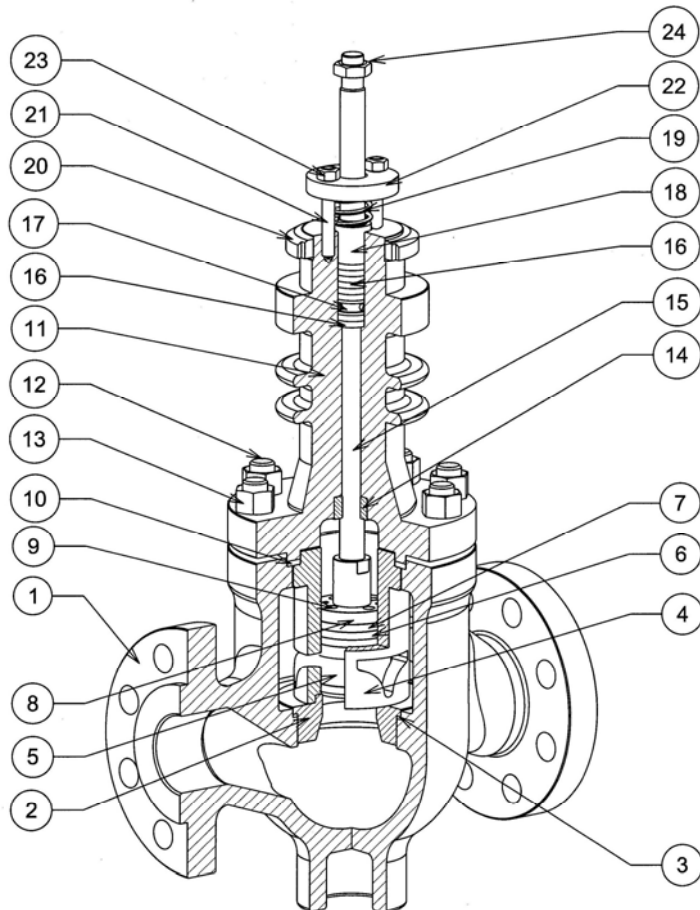


DN 25 - 40

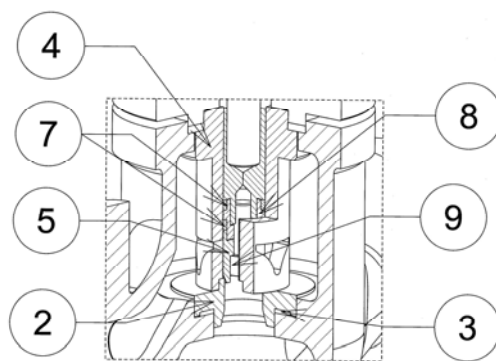
TRIM 1E			CARBON STEEL		STAINLESS STEEL
			Acciaio Carbonio		Acciaio Inox
TEMPERATURE RANGE			- 20 / +425 °C	- 45 / +343 °C	- 196 / +425 °C
Range Temperature					
Item	Description	Descrizione			
1	Body	Corpo	A 216 WCB (1)	A 352 LCB (1)	A351 CF8M
2	Seat	Sede	AISI 316 + stellite		
3	Seat Gasket	Guarnizione Sede	Thermiculite 815		
4	Main Equipercantage Cage	Gabbia principale	AISI 316		
5	Piston	Pistone	AISI 316 + stellite		
5b	Inferior piston plate	Fondello inferiore	AISI 316		
5c	Soft seal class VI°	Anello classe VI°	PTFE or PTFE/GR		
5d	Inferior piston plate screws	Viti serr. inferiori	ISO 4762 Cl. A2		
6	Medium piston plate	Fondello intermedio	AISI 316		
7	Seal Rings	Anelli di Tenuta	Graphite + Antimon / Grafite + Antimonio		
8	Superior piston plate	Fondello Superiore	AISI 316		
9	Piston Screws	Viti Serr. Pistone	ISO 4762 Cl. A2		
10	Body Gasket	Guarnizione Corpo	Spirometal / Spirotallica - AISI 304 + Graphite		
11	Bonnet	Flangia superiore	A 216 WCB (1)	A 352 LCB (1)	A351 CF8M
12	Body Stud Bolts	Prigionieri corpo	A193 B7 galvanized	A193 B7 (2) galvanized	A193 B7 (2) galvanized
13	Body Nuts	Dadi	A194 2H galvanized	A194 2H (2) galvanized	A194 2H (2) galvanized
14	Guide bushing	Bussola guida	AISI 304		
15	Stem	Stelo	AISI 316		
16	Packing	Premistoppa	Pure Graphite - Grafite Pura		
			PTFE (PTFE V rings 100 %)		
			PTFE/GR (PTFE V RINGS 85% + Graphite V rings 15 %)		
17	Snore-piece packing	Lanterna	AISI 316		
18	Packing Guide	Bussola prem.	AISI 316		
19	Packing Spring	Molla prem.	AISI 302		
20	Yoke Lock Nut	Ghiera blocc. Cast.	Carbon steel Cl. 6S galvanized - Acc. Carb. Zincato Cl. 6S		
21	Packing Stud Bolts	Tiranti prem.	A193 B8		
22	Packing flange	Flangia prem.	AISI 304		
23	Packing Lock Nuts	Dadi tiranti prem.	A 194 Gr.8		
24	Stem nut	Dado serr. Stelo	A 194 Gr.8		

- (1) Silicon high temperature painture up to 600 °C 25 µ
(2) For temperature < - 20 °C s.s. A193 B8 + A194 Gr.8

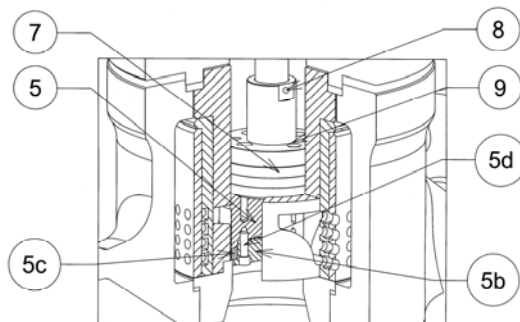
Verniciatura siliconica resistente alle alte temperature 600 °C 25 µ
Per temperature < - 20 °C Acc. Inox A193 B8 + A194 Gr.8



DN 50 - 100



DN 40 - 50

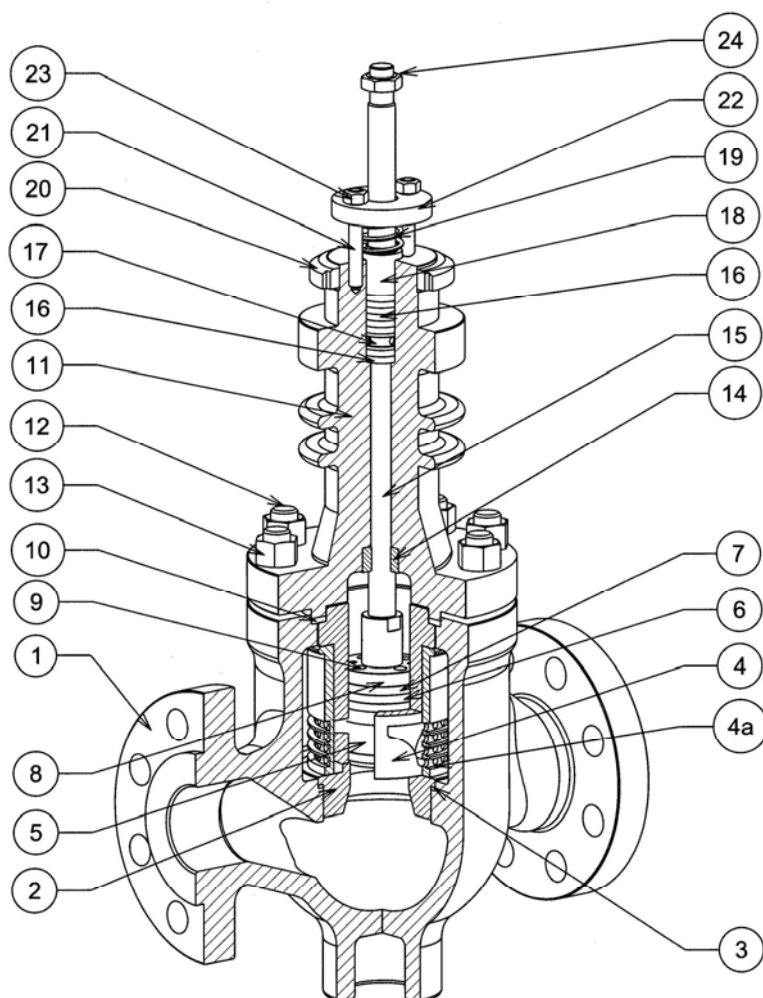


SOFT SEAL Detail
Dettaglio TENUTA SOFFICE

TRIM 2EL			CARBON STEEL		STAINLESS STEEL
			Acciaio Carbonio		Acciaio Inox
TEMPERATURE RANGE			- 20 / +425 °C	- 45 / +343 °C	- 196 / +425 °C
Range Temperature					
Item	Description	Descrizione			
1	Body	Corpo	A 216 WCB (1)	A 352 LCB (1)	A351 CF8M
2	Seat	Sede	AISI 316 + stellite		
3	Seat Gasket	Guarnizione Sede	Thermiculite 815		
4	Main Euipercantage Cage	Gabbia principale	AISI 316		
4a	Second Cage	Seconda Gabbia	AISI 316		
5	Piston	Pistone	AISI 316 + stellite		
6	Medium piston plate	Fondello intermedio	AISI 316		
7	Seal Rings	Anelli di Tenuta	Graphite + Antimon / Grafite + Antimonio		
8	Superior piston plate	Fondello Superiore	AISI 316		
9	Piston Screws	Viti Serr. Pistone	ISO 4762 Cl. A2		
10	Body Gasket	Guarnizione Corpo	Spirometal / Spirotallica – AISI 304 + Graphite		
11	Bonnet	Flangia superiore	A 216 WCB (1)	A 352 LCB (1)	A351 CF8M
12	Body Stud Bolts	Prigionieri corpo	A193 B7 galvanized	A193 B7 (2) galvanized	A193 B7 (2) galvanized
13	Body Nuts	Dadi	A194 2H galvanized	A194 2H (2) galvanized	A194 2H (2) galvanized
14	Guide bushing	Bussola guida	AISI 304		
15	Stem	Stelo	AISI 316		
16	Packing	Premistoppa	Pure Graphite – Grafite Pura		
			PTFE (PTFE V rings 100 %)		
			PTFE/GR (PTFE V RINGS 85% + Graphite V rings 15 %)		
17	Snore-piece packing	Lantern	AISI 316		
18	Packing Guide	Bussola prem.	AISI 316		
19	Packing Spring	Molla prem.	AISI 302		
20	Yoke Lock Nut	Ghiera blocc. Cast.	Carbon steel Cl. 6S galvanized – Acc. Carb. Zincato Cl. 6S		
21	Packing Stud Bolts	Tiranti prem.	A193 B8		
22	Packing flange	Flangia prem.	AISI 304		
23	Packing Lock Nuts	Dadi tiranti prem.	A 194 Gr.8		
24	Stem nut	Dado serr. Stelo	A 194 Gr.8		

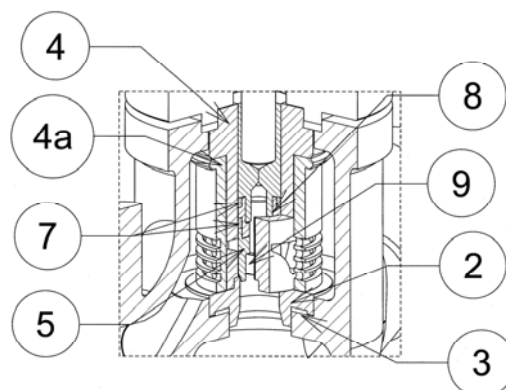
- (1) Silicon high temperature painture up to 600 °C 25 µ
 (2) For temperature < - 20 °C s.s. A193 B8 + A194 Gr.8

Verniciatura siliconica resistente alle alte temperature 600 °C 25 µ
 Per temperature < - 20 °C Acc. Inox A193 B8 + A194 Gr.8



DN 50 - 100

For soft seal class VI° see TRIM 1E
 Per la tenuta soffice classe VI°
 vedi TRIM 1E

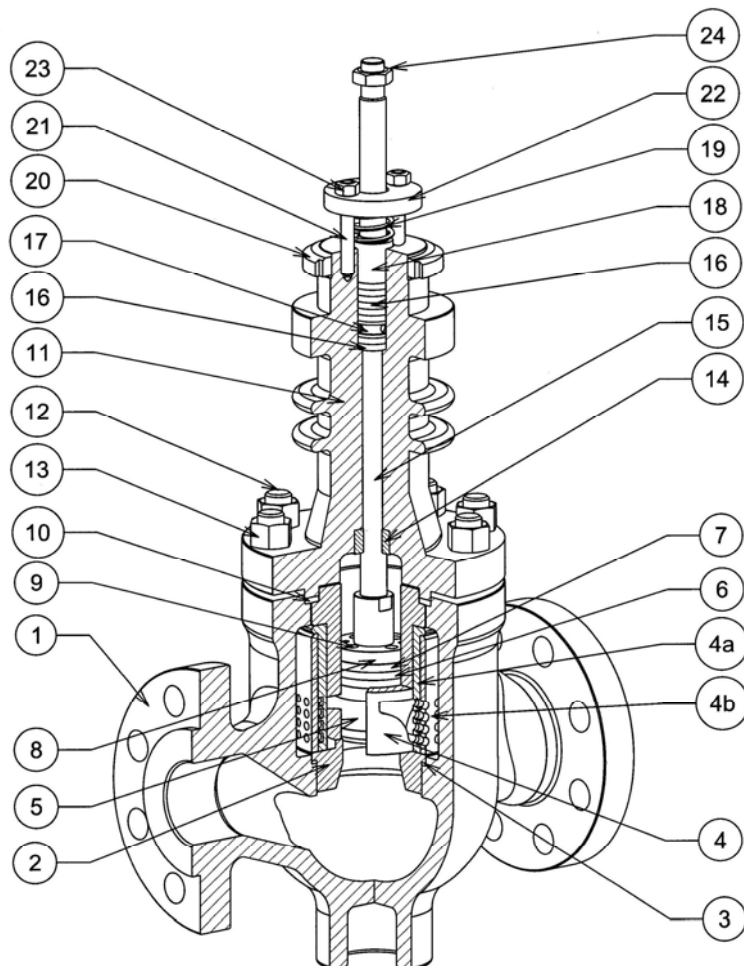


DN 25 - 40

TRIM 3EL			CARBON STEEL		STAINLESS STEEL
			Acciaio Carbonio		Acciaio Inox
TEMPERATURE RANGE			- 20 / +425 °C	- 45 / +343 °C	- 196 / +425 °C
Range Temperature					
Item	Description	Descrizione			
1	Body	Corpo	A 216 WCB (1)	A 352 LCB (1)	A351 CF8M
2	Seat	Sede	AISI 316 + stellite		
3	Seat Gasket	Guarnizione Sede	Thermiculite 815		
4	Main Equipercantage Cage	Gabbia principale	AISI 316		
4a	Second Cage	Seconda Gabbia	AISI 316		
4b	Third Cage	Terza Gabbia	AISI 316		
5	Piston	Pistone	AISI 316 + stellite		
6	Medium piston plate	Fondello intermedio	AISI 316		
7	Seal Rings	Anelli di Tenuta	Graphite + Antimon / Grafite + Antimonio		
8	Superior piston plate	Fondello Superiore	AISI 316		
9	Piston Screws	Viti Serr. Pistone	ISO 4762 Cl. A2		
10	Body Gasket	Guarnizione Corpo	Spirometal / Spirotallica – AISI 304 + Graphite		
11	Bonnet	Flangia superiore	A 216 WCB (1)	A 352 LCB (1)	A351 CF8M
12	Body Stud Bolts	Prigionieri corpo	A193 B7 galvanized	A193 B7 (2) galvanized	A193 B7 (2) galvanized
13	Body Nuts	Dadi	A194 2H galvanized	A194 2H (2) galvanized	A194 2H (2) galvanized
14	Guide bushing	Bussola guida	AISI 304		
15	Stem	Stelo	AISI 316		
16	Packing	Premistoppa	Pure Graphite – Grafite Pura		
			PTFE (PTFE V rings 100 %)		
			PTFE/GR (PTFE V RINGS 85% + Graphite V rings 15 %)		
17	Snore-piece packing	Lantern	AISI 316		
18	Packing Guide	Bussola prem.	AISI 316		
19	Packing Spring	Molla prem.	AISI 302		
20	Yoke Lock Nut	Ghiera blocc. Cast.	Carbon steel Cl. 6S galvanized – Acc. Carb. Zincato Cl. 6S		
21	Packing Stud Bolts	Tiranti prem.	A193 B8		
22	Packing flange	Flangia prem.	AISI 304		
23	Packing Lock Nuts	Dadi tiranti prem.	A 194 Gr.8		
24	Stem nut	Dado serr. Stelo	A 194 Gr.8		

- (1) Silicon high temperature painture up to 600 °C 25 µ
(2) For temperature < - 20 °C s.s. A193 B8 + A194 Gr.8

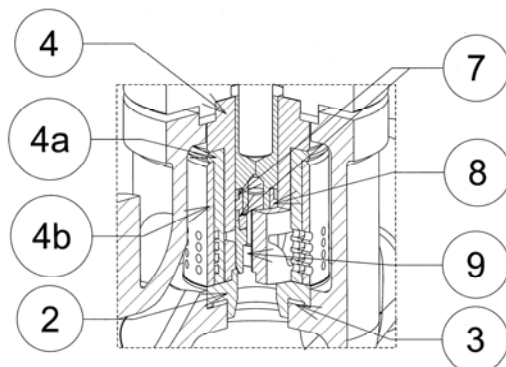
Verniciatura silconica resistente alle alte temperature 600 °C 25 µ
Per temperature < - 20 °C Acc. Inox A193 B8 + A194 Gr.8



DN 50 - 100

For soft seal class VI° see TRIM 1E

Per la tenuta soffice classe VI°
vedi TRIM 1E



DN 25 - 40

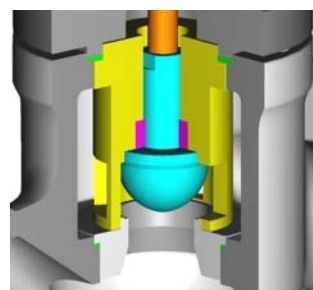
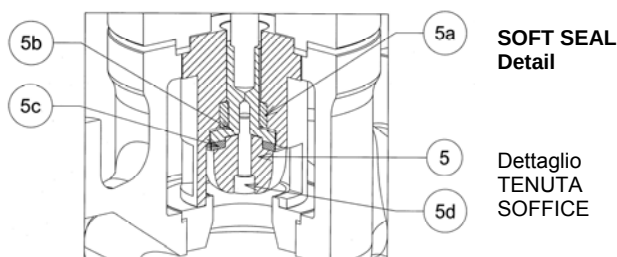
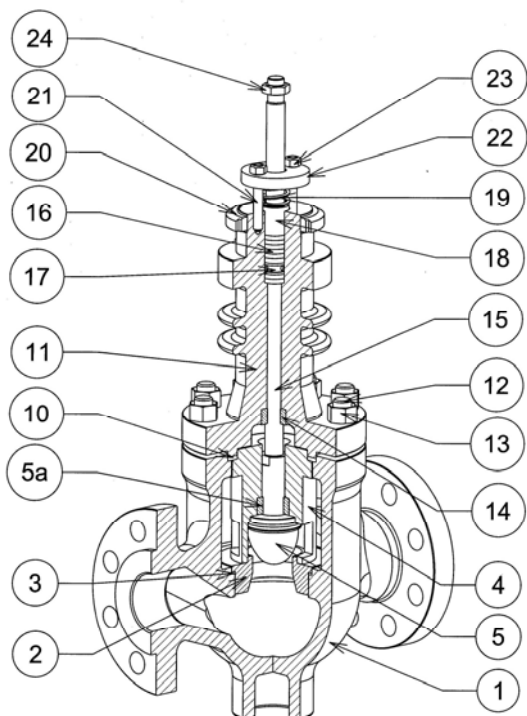
<i>TRIM CPL – CPE – CPT</i>			CARBON STEEL		STAINLESS STEEL
			Acciaio Carbonio		Acciaio Inox
TEMPERATURE RANGE			- 20 / +425 °C	- 45 / +343 °C	- 196 / +425 °C
Range Temperature					
Item	Description	Descrizione			
1	Body	Corpo	A 216 WCB (1)	A 352 LCB (1)	A351 CF8M
2	Seat	Sede	AISI 316 + stellite		
3	Seat Gasket	Guarnizione Sede	Thermiculite 815		
4	Main Cage	Gabbia principale	AISI 316		
5	Contoured Linear Plug (Fig.1) Equipercage Plug (Fig.2) Quick-opening Plug (Fig.3)	Otturatore Profilato Lineare (Fig.1) Otturatore Profilato Equiperc. (Fig.2) Otturatore Apertura Rapida (Fig.3)	AISI 316 + stellite		
5a	Cage guide bushing	Bussola guida gabbia	AISI 304		
5b	Superior plug plate	Fondello superiore ten. soffice	AISI 316		
5c	Soft seal class VI°	Anello di tenuta classe VI°	PTFE or PTFE/GR		
5d	Plug screw	Vite serraggio otturatore	ISO 4762 Cl. A2		
10	Body Gasket	Guarnizione Corpo	Spirometal / Spirotallica – AISI 304 + Graphite		
11	Bonnet	Flangia superiore	A 216 WCB (1)	A 352 LCB (1)	A351 CF8M
12	Body Stud Bolts	Prigionieri corpo	A193 B7 galv.	A193 B7 (2) galv.	A193 B7 (2) galv.
13	Body Nuts	Dadi	A194 2H galv.	A194 2H (2) galv.	A194 2H (2) galv.
14	Guide bushing	Bussola guida	AISI 304		
15	Stem	Stelo	AISI 316		
16	Packing	Premistoppa	Pure Graphite – Grafite Pura		
			PTFE (PTFE V rings 100 %)		
			PTFE/GR (PTFE V RINGS 85% + Graphite V rings 15 %)		
17	Snore-piece packing	Lanterna	AISI 316		
18	Packing Guide	Bussola prem.	AISI 316		
19	Packing Spring	Molla prem.	AISI 302		
20	Yoke Lock Nut	Ghiera blocc. Cast.	Carbon steel Cl. 6S galvanized – Acc. Carb. Zincato Cl. 6S		
21	Packing Stud Bolts	Tiranti prem.	A193 B8		
22	Packing flange	Flangia prem.	AISI 304		
23	Packing Lock Nuts	Dadi tiranti prem.	A 194 Gr.8		
24	Stem nut	Dado serr. Stelo	A 194 Gr.8		

- (1) Silicon high temperature painture up to 600 °C 25 µ
(2) For temperature < - 20 °C s.s. A193 B8 + A194 Gr.8

Verniciatura siliconica resistente alle alte temperature 600 °C 25 µ
Per temperature < - 20 °C Acc. Inox A193 B8 + A194 Gr.8

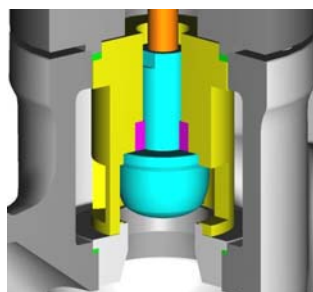
DN 25 – 50

Trim Types - Tipi di otturatore



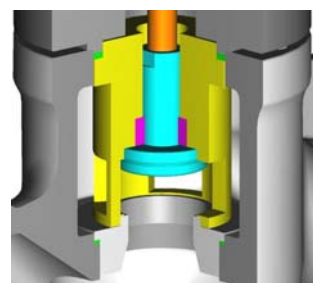
CONTOURED LINEAR PLUG
from DN 25 to DN 50
not balanced

OTTURATORE PROFILATO LINEARE dal DN 25 al DN 50
non bilanciato



CONTOURED EQUIPERCAGE PLUG
from DN 25 to DN 50
not balanced

OTTURATORE PROFILATO EQUIPERCENTUALE dal DN 25 al DN 50
non bilanciato



QUICK-OPENING PLUG
from DN 25 to DN 50
not balanced

OTTURATORE APERTURA RAPIDA dal DN 25 al DN 50
non bilanciato

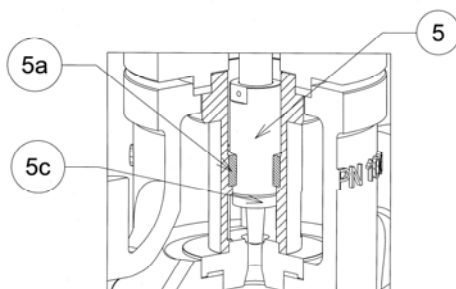
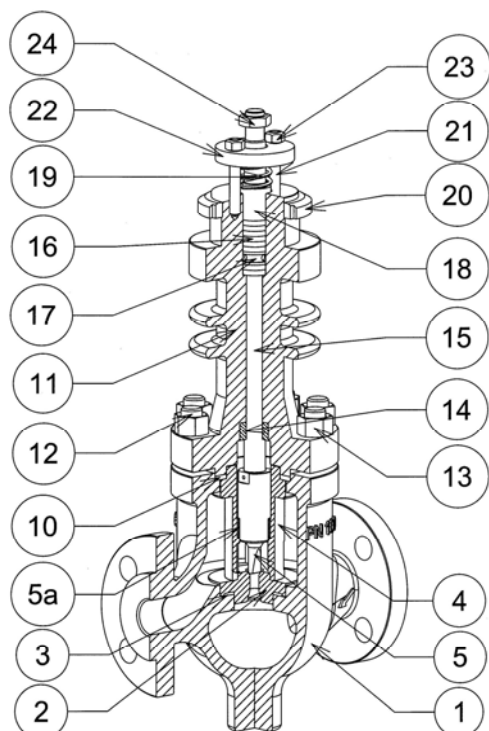
TRIM MFP - 1SG - 2SG			CARBON STEEL		STAINLESS STEEL
			Acciaio Carbonio		Acciaio Inox
TEMPERATURE RANGE			- 20 / +425 °C	- 45 / +343 °C	- 196 / +425 °C
Range Temperature					
Item	Description	Descrizione			
1	Body	Corpo	A 216 WCB (1)	A 352 LCB (1)	A351 CF8M
2	Seat	Sede	AISI 316 + stellite		
3	Seat Gasket	Guarnizione Sede	Thermiculite 815		
4	Main Cage	Gabbia principale	AISI 316		
5	Linear Plug MFP (Fig.1) Equiperc. Plug 1SG (Fig.2) Equiperc. Plug 2SG (Fig.3)	Otturatore Lineare MFP (Fig.1) Otturatore Equiperc. 1SG (Fig.2) Otturatore Equiperc. 2SG (Fig.3)	AISI 316 + stellite		
5a	Cage guide bushing	Bussola guida gabbia	AISI 304		
5c	Soft seal class VI°	Anello di tenuta classe VI°	PTFE or PTFE/GR		
10	Body Gasket	Guarnizione Corpo	Spirometal / Spirotallica - AISI 304 + Graphite		
11	Bonnet	Flangia superiore	A 216 WCB (1)	A 352 LCB (1)	A351 CF8M
12	Body Stud Bolts	Prigionieri corpo	A193 B7 galv.	A193 B7 (2) galv.	A193 B7 (2) galv.
13	Body Nuts	Dadi	A194 2H galv.	A194 2H (2) galv.	A194 2H (2) galv.
14	Guide bushing	Bussola guida	AISI 304		
15	Stem	Stelo	AISI 316		
16	Packing	Premistoppa	Pure Graphite - Grafite Pura		
			PTFE (PTFE V rings 100 %)		
			PTFE/GR (PTFE V RINGS 85% + Graphite V rings 15 %)		
17	Snore-piece packing	Lantern	AISI 316		
18	Packing Guide	Bussola prem.	AISI 316		
19	Packing Spring	Molla prem.	AISI 302		
20	Yoke Lock Nut	Ghiera blocc. Cast.	Carbon steel Cl. 6S galvanized - Acc. Carb. Zincato Cl. 6S		
21	Packing Stud Bolts	Tiranti prem.	A193 B8		
22	Packing flange	Flangia prem.	AISI 304		
23	Packing Lock Nuts	Dadi tiranti prem.	A 194 Gr.8		
24	Stem nut	Dado serr. Stelo	A 194 Gr.8		

- (1) Silicon high temperature painture up to 600 °C 25 µ
(2) For temperature < - 20 °C s.s. A193 B8 + A194 Gr.8

Verniciatura siliconica resistente alle alte temperature 600 °C 25 µ
Per temperature < - 20 °C Acc. Inox A193 B8 + A194 Gr.8

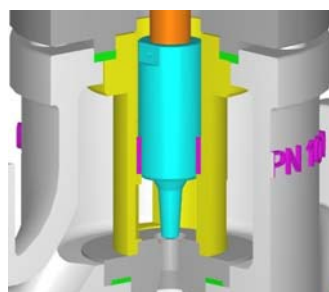
DN 25

Trim Types - Tipi di otturatore



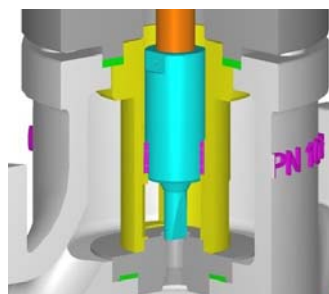
SOFT SEAL
Detail

Dettaglio
TENUTA
SOFFICE



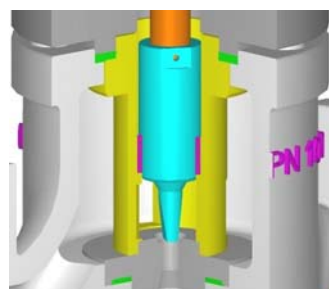
CONTOURED MICROFLOW
LINEAR PLUG MFP
(Ø 1/8"-3/16"-1/4"-3/8")
not balanced

OTTURATORE PROFILATO
LINEARE MICROFLUSSO
(Ø 1/8"-3/16"-1/4"-3/8")
non bilanciato



CONTOURED MICROFLOW
EQUIPERCAGE PLUG
1SG
(Ø 1/4"-3/8") not balanced

OTTURATORE PROFILATO
EQUIPERCENTUALE
MICROFLUSSO 1SG
(Ø 1/4"-3/8") non bilanciato



CONTOURED MICROFLOW
EQUIPERCAGE PLUG
2SG
(Ø 1/4"-3/8") not balanced

OTTURATORE PROFILATO
EQUIPERCENTUALE
MICROFLUSSO 2SG
(Ø 1/4"-3/8") non bilanciato

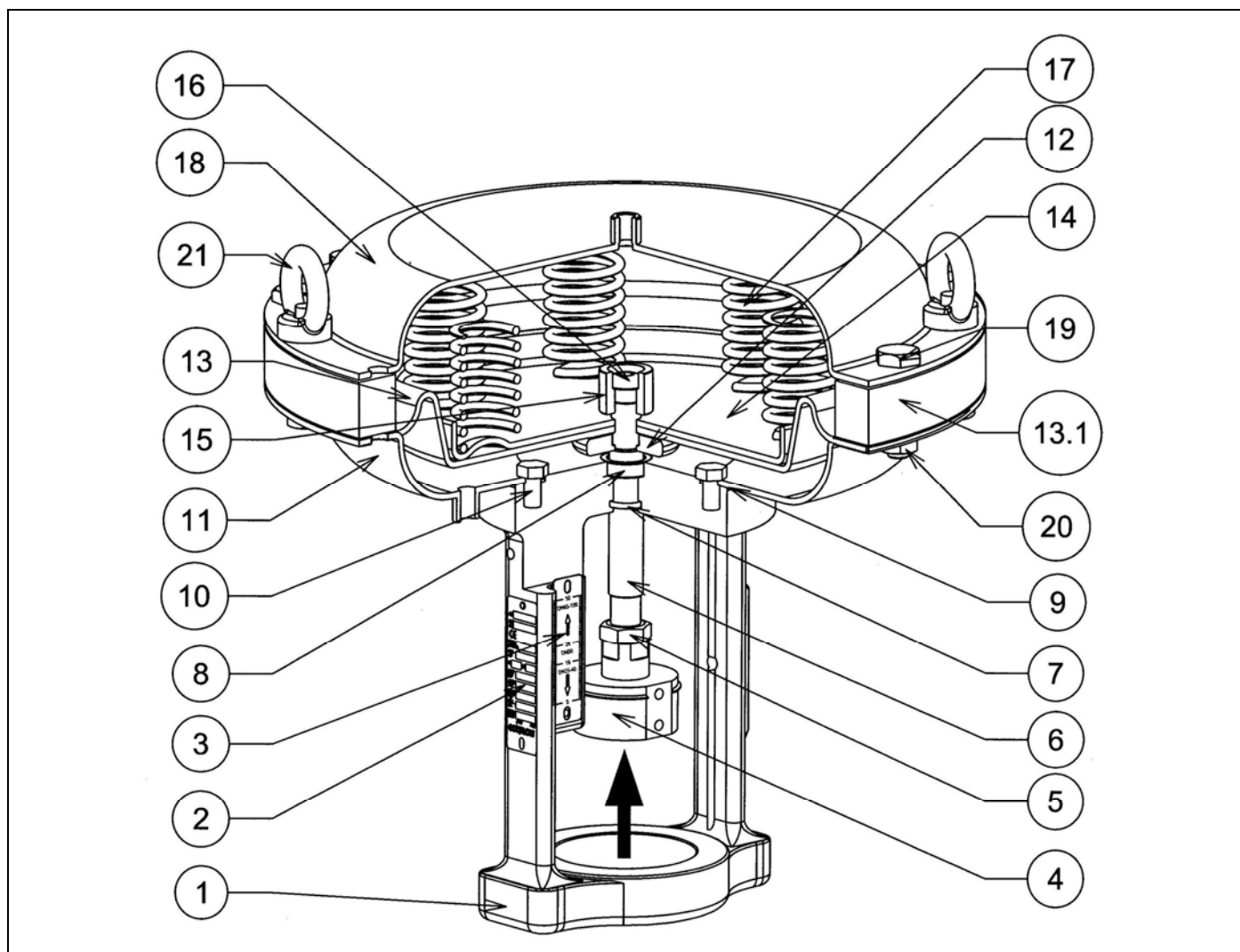
<i>Pneumatic Diaphragm Actuator</i> <i>RA reverse acting</i>	<i>Attuatore Pneumatico a Diaframma</i> <i>RA azione rovescia</i>
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	Pneumatic connections	Connessioni pneumatiche	Ø 1/8" Rp ISO 7
	Ambient temperature	Temperatura ambiente	- 20 ... + 70 °C
	Max supply air	Massima press. di alimentazione	35 psi
	Finishing	Finitura	Epoxy coated 65 µ RAL 5020 – Polvere epoxy

Item	Description	Descrizione	
1	Yoke	Castello	GGG 50
2	Description plate	Targhetta descrittiva	S.S. AISI 304 – Acciaio Inox AISI 304
3	Travel indicator	Targhetta indice di corsa	Alluminium - Alluminio
4	Union block	Bloccetto di unione	AISI 304
5	Lock nut upper stem	Dado blocc. Asta superiore	A 194 Gr.8
6	Upper stem	Asta superiore	AISI 304
7	Lower "o" ring	"O" ring inferiore	NBR
8	Upper Air tight	Corteco superiore	NBR
9	Gasket	Guarnizione	Cork rubber – Sughero gomma
10	Internal screws	Viti interne	DIN 933 galvanized steel
11	Lower case	Cassa Attuatore Inferiore	P11 steel
12	Diaphragm spacer	Distanziale membrana	Galvanized steel
13	Diaphragm	Membrana	EPDM
13.1	Spacer 6-30 psi (1)	Distanziale 6-30 psi	Carbon steel
14	Diaphragm Plate	Piatto Membrana	P01 steel
15	Diaphragm bush	Boccola membrana	AISI 303
16	Diaphragm lock screw	Vite serraggio membrana	ISO 7380 Galvanized steel
17	Springs	Molle	C98 UNI 3823
18	Upper case	Cassa attuatore superiore	P11 steel
19	Casing lock screws	Viti di serraggio	DIN 933 galvanized steel
20	Casing locknuts	Dadi di serraggio	DIN 933 galvanized steel
21	Eyebolts	Golfari	DIN 582 – galvanized C15

(1) Component mounted only on RA version T400/T500 6-30 psi

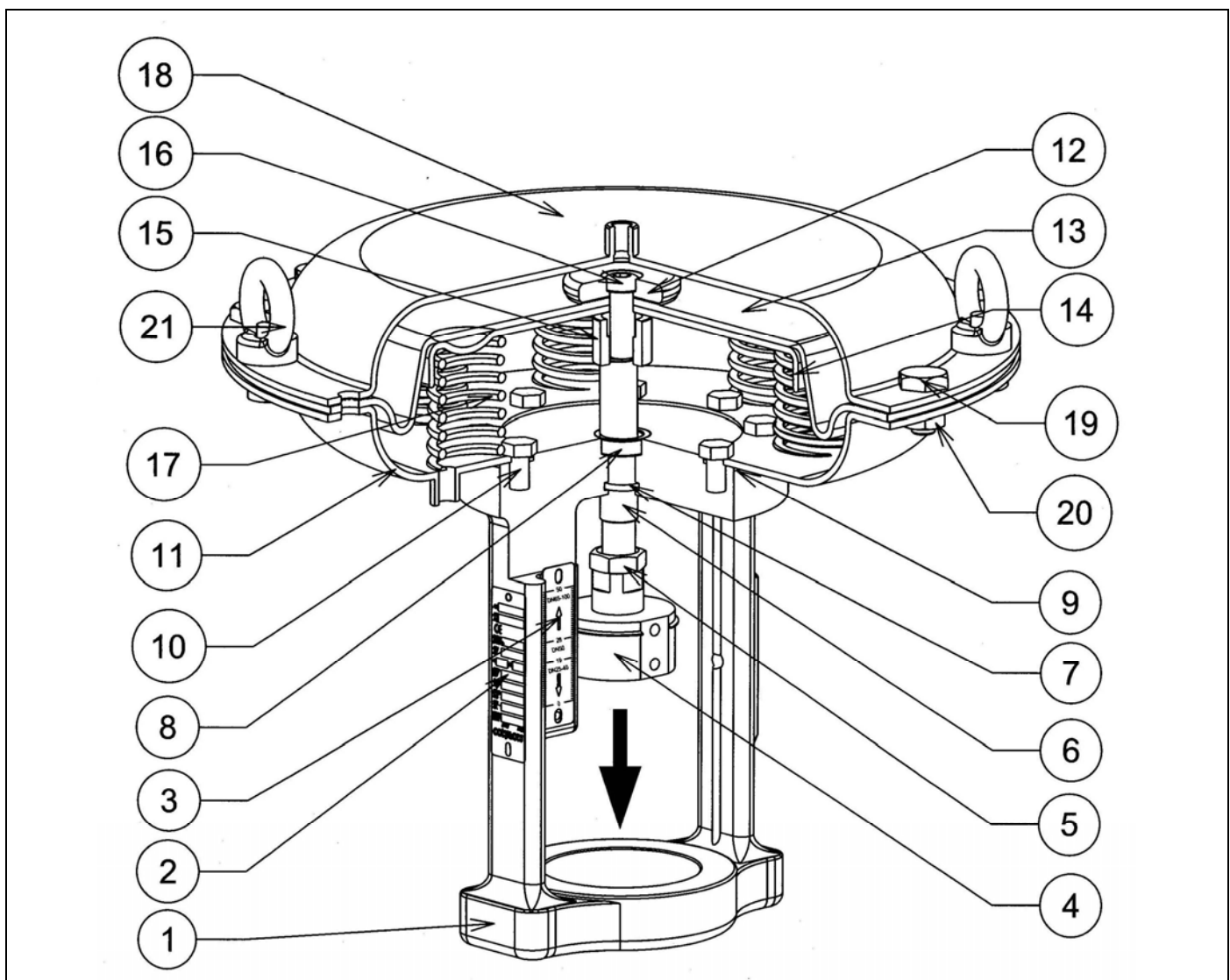
Componente montato solo nella versione RA T400/T500 6-30 psi



<i>Pneumatic Diaphragm Actuator</i> <i>DA direct acting</i>	<i>Attuatore Pneumatico a Diaframma</i> <i>DA azione diretta</i>
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	Pneumatic connections	Connessioni pneumatiche	Ø 1/8" Rp ISO 7
	Ambient temperature	Temperatura ambiente	- 20 ... + 70 °C
	Max supply air	Massima press. di alimentazione	35 psi
	Finishing	Finitura	Epoxy coated 65 µ RAL 5020 – Polvere epoxy

Item	Description	Descrizione	
1	Yoke	Castello	GGG 50
2	Description plate	Targhetta descrittiva	S.S. AISI 304 – Acciaio Inox AISI 304
3	Travel indicator	Targhetta indice di corsa	Alluminium - Alluminio
4	Union block	Blocchetto di unione	AISI 304
5	Lock nut upper stem	Dado blocc. Asta superiore	A 194 Gr.8
6	Upper stem	Asta superiore	AISI 304
7	Lower "o" ring	"O" ring inferiore	NBR
8	Upper Air tight	Corteco superiore	NBR
9	Gasket	Guarnizione	Cork rubber – Sughero gomma
10	Internal screws	Viti interne	DIN 933 galvanized steel
11	Lower case	Cassa Attuatore Inferiore	P11 steel
12	Diaphragm spacer	Distanziale membrana	Galvanized steel
13	Diaphragm	Membrana	EPDM
14	Diaphragm Plate	Piatto Membrana	P01 steel
15	Diaphragm bush	Boccola membrana	AISI 303
16	Diaphragm lock screw	Vite serraggio membrana	ISO 7380 Galvanized steel
17	Springs	Molle	C98 UNI 3823
18	Upper case	Cassa attuatore superiore	P11 steel
19	Casing lock screws	Viti di serraggio	DIN 933 galvanized steel
20	Casing locknuts	Dadi di serraggio	DIN 933 Galvanized steel
21	Eyebolts	Golfari	DIN 582 – galvanized C15

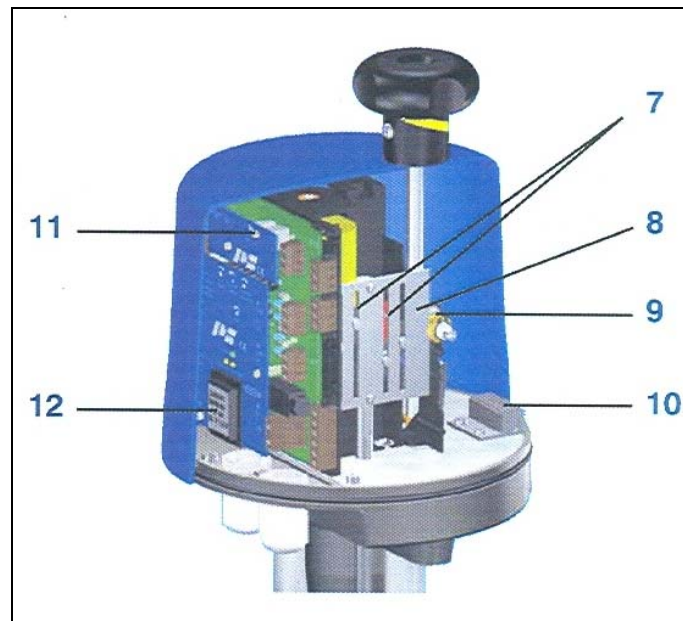
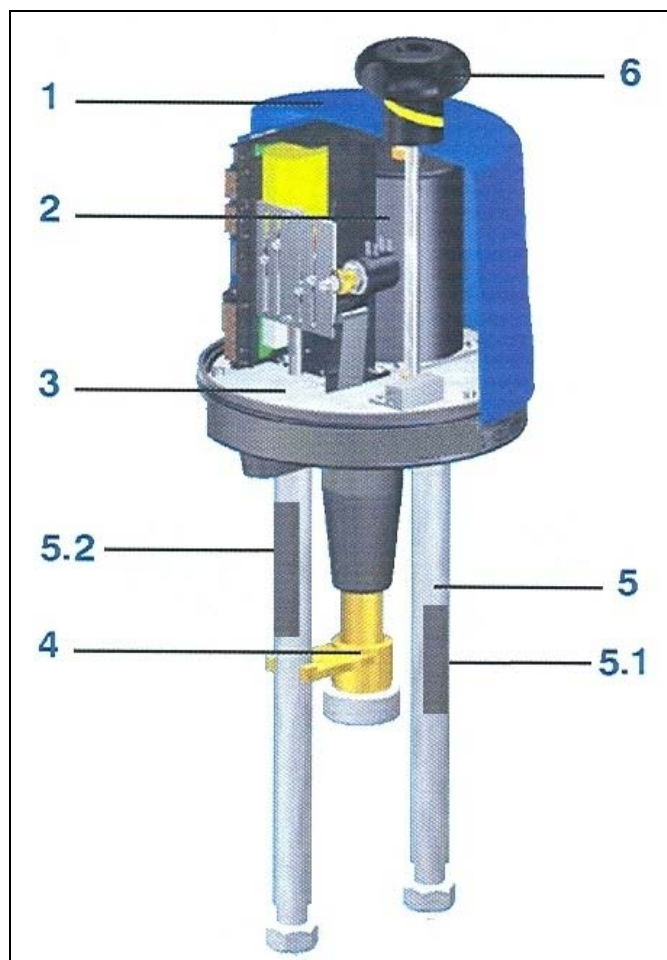


<i>Electric Actuator</i>	<i>Attuatore Elettrico</i>
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	Electric connections	Connessioni elettriche	Cable gland PG 13 (2off) – n° 2 Connessioni elettriche PG13				
	Degree of protection	Grado di protezione	IP 65 DIN 40050				
	Ambient temperature	Temperatura ambiente	- 20 ... + 60 °C				
	Power Supply	Tensione di alimentazione	24 V AC	24 V DC	110 V AC	230 V AC	400 V 3

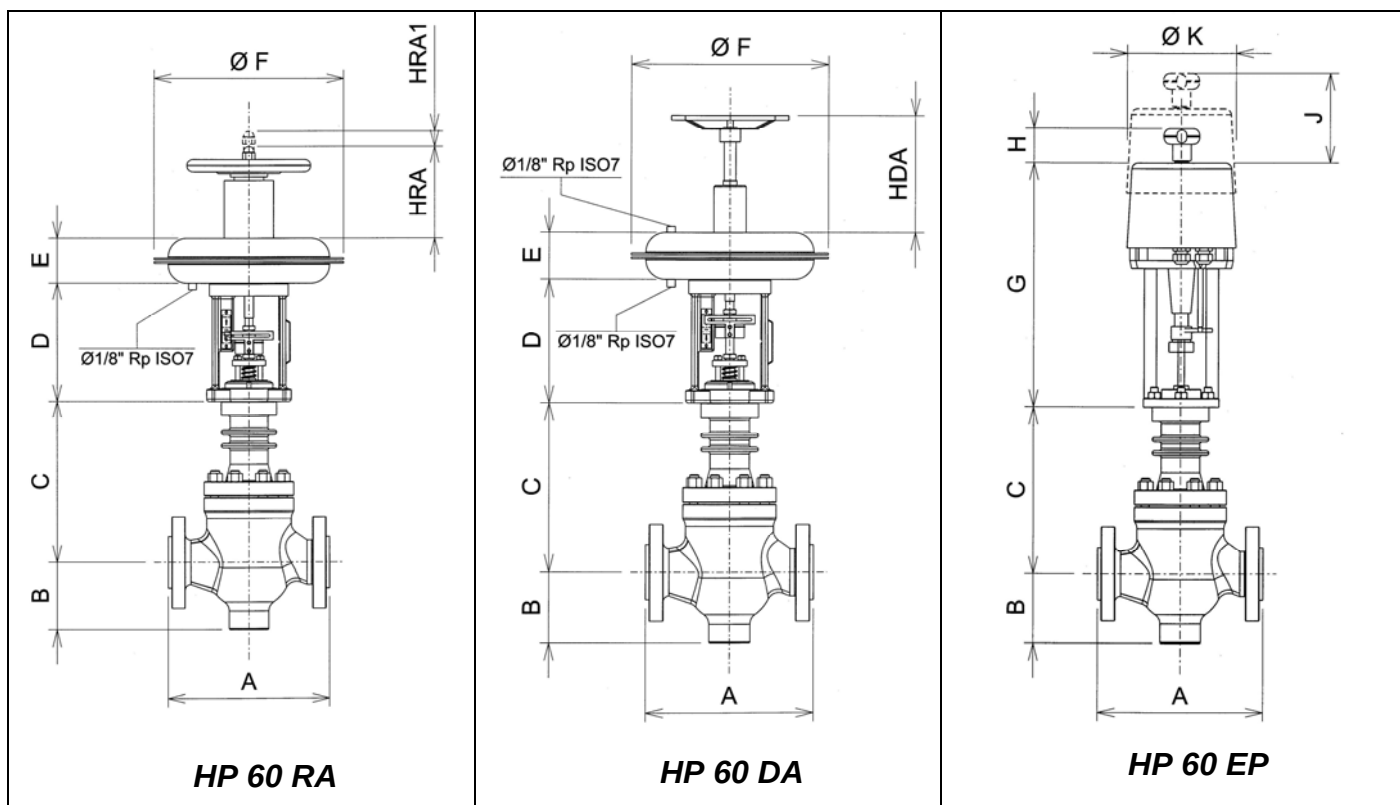
Item	Description	Descrizione	
1	Cover	Coperchio	UV resistant, self extinguishing polycarbonate Policarbonato autoestinguente – resistente UV
2	Synchronous motor	Motore sincrono	-
3	Base case with internal gears	Cassa con ingranaggi	Alluminium die casting Pressofusione in alluminio
4	Guide bushing with disc spring coupling	Guida con molle a disco	Kevlar
5	Pillar yoke	Colonne castello	Non corrosive steel 1.4104 – Acciaio 1.4104
5.1	Travel indicator	Targhetta indicatrice di corsa	Alluminium – Alluminio
5.2	Description plate	Targhetta descrittiva	S.S. AISI 304 – Acciaio inox AISI 304
6	Manual handwheel	Volantino manuale	Duroplastic – Plastica indurita
7	Plate for limit stroke	Piastra per limitatori di corsa	Nickel plated steel – Acciaio nichelato chimicamente

OPTIONALS		ACCESSORI	
8	Plate for additional stroke switches	Piastra per fine corsa aggiuntivi	Nickel plated steel - Acciaio nichelato chimicamente
9	Single or double potentiometer	Singolo o Doppio potenziometro	-
10	Space heater	Resistenza elettrica	-
11	Electronic position transmitter	Trasmettitore di posizione	-
12	Electronic positioner	Posizionatore elettronico	-



HP 60 Series

Dimensions mm – Dimensioni mm



BODY GROUP					GRUPPO CORPO	
DN	Ø	A			B	C (3)
		ANSI 600 (1)		PN 63		
		RF BW-SW (2)	RJ	Form B - C - D - E - F		
25	1"	210	210	210	99	276
40	1.1/2"	251	251	251	101	291
50	2"	286	289	286	111	291
65	2.1/2"	311	314	311	136	315
80	3"	337	340	337	139	318
100	4"	394	397	394	169	348

(1) Valid also for ANSI 150 and ANSI 300 – Valido per ANSI 150 e ANSI 300

(2) BW-SW according ASME/ANSI B16.34 – BW-SW in accordo alla norma ASME/ANSI B16.34

(3) On request dimension for bonnet low temperature < -45°C

A richiesta dimensione per bonnet allungato per basse temperature < -45°C

On request dimension for bellow seal dangerous fluids

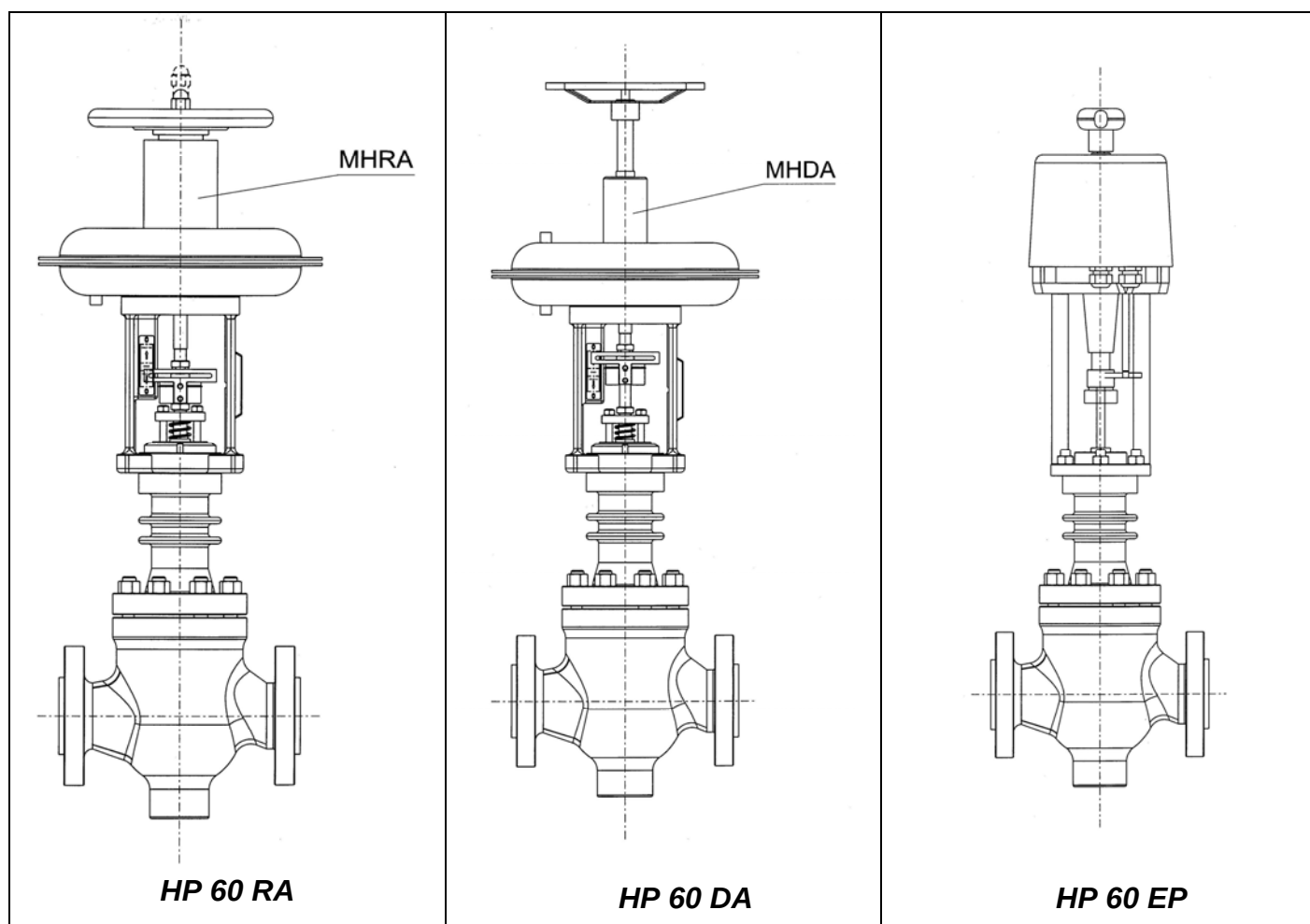
A richiesta dimensione per bonnet prolungato con soffietto di tenuta per fluidi pericolosi

ACTUATORS						ATTUATORI							
Type of Pneumatic Actuators	D	E			Ø F	HRA	HRA1	HDA	Type of Electric Actuators	G	H	Ø K	J
		HP60DA	HP60RA										
			psi										
			6-18	6-30									
T250	208	70	70	70	292	200	19	220	PSL201	450	50	176	100
T310		95	95	95	336		28		PSL202				
T400		119	119	144	408		50		PSL204				
T500		119	119	144	520		50		PSL210				
(4) ball headed button with side manual handwheel pomello – con volantino laterale									PSL214	496	52	180	120
									PSL320	784	47 ⁽⁴⁾	226	230
									PSL325				

(4) ball headed button with side manual handwheel
pomello – con volantino laterale

HP 60 Series

Weights Kg – Pesi Kg



BODY GROUP – weight Kg				GRUPPO CORPO – Peso Kg	
		ANSI 600		PN 63	PN 100
		RF – RJ	BW – SW	FORM B – C – D – E – F	
25	1"	23	20,5	24	24
40	1.1/2"	33	28,5	34	34
50	2"	40	35	40	41
65	2.1/2"	59	48	60	63
80	3"	66	53	64	66
100	4"	96	70	87	91

ACTUATORS – weight Kg				ATTUATORI – peso Kg			
Type of Pneumatic Actuators	HP60 DA Direct Acting	HP60 RA Reverse Acting		MHDA	MHRA	Type of Electric Actuators	
	Signal psi	Signal psi					
	6-30	6-18	6-30				
T250	9,5	10	11	2,5	4,5	PSL201	6
T310	13	13,5	14			PSL202	6,5
T400	20	20,5	30			PSL204	8
T500	30	30,5	43			PSL210	9,5
NOTE : Accessories weight indicated on series data sheets Pesi accessori indicati sui data sheet della serie						PSL214	11
						PSL320	21
						PSL325	21

HP 60 Series

SPECIAL OPTIONS

- Cleaning for Oxygen Service
- Special Materials
- ATEX Electric Actuator

OPZIONI SPECIALI

- Pulizia per applicazione "Servizio Ossigeno"
- Materiali Speciali
- Attuatore elettrico ATEX

SUGGESTED SPARE PARTS

Components suggested as spare parts for commissioning and start-up

- seat body gasket
- main body gasket
- packing
- soft insert on plug

only for Pneumatic Actuator

kit gaskets composed by :

diaphragm
Yoke gasket
Air tight
"O" ring

RICAMBI SUGGERITI

Componenti suggeriti come ricambi per commissioning e avviamento

- guarnizi one sede
- guarnizione corpo
- premistoppa
- tenuta soffice su otturatore

solo per Attuatore Pneumatico

kit guarnizioni composto da :

membrana
guarnizione castello
Corteco
"O" ring

After 2 Years exercise suggested spare parts

- Complete trim
(seat + gaskets + packing included)
- Kit gasket for Pneumatic Actuator
- Electrical accessories (2% per type)

Parti di ricambio consigliate dopo 2 anni di funzionamento

- Trim completo
(incluso sede + guarnizioni + premistoppa)
- Kit guarnizioni per Attuatore Pneumatico
- Accessori Elettrici (2% per Tipo)

Special tools are not necessary for maintenance

Non sono necessari per la manutenzione
attrezzi speciali

CONFLOW s.p.a.

FLOW CONTROL SOLUTIONS

QUALITY CERTIFIED COMPANY UNI EN ISO 9001 : 2008

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Servicing Department – Servizio Assistenza

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