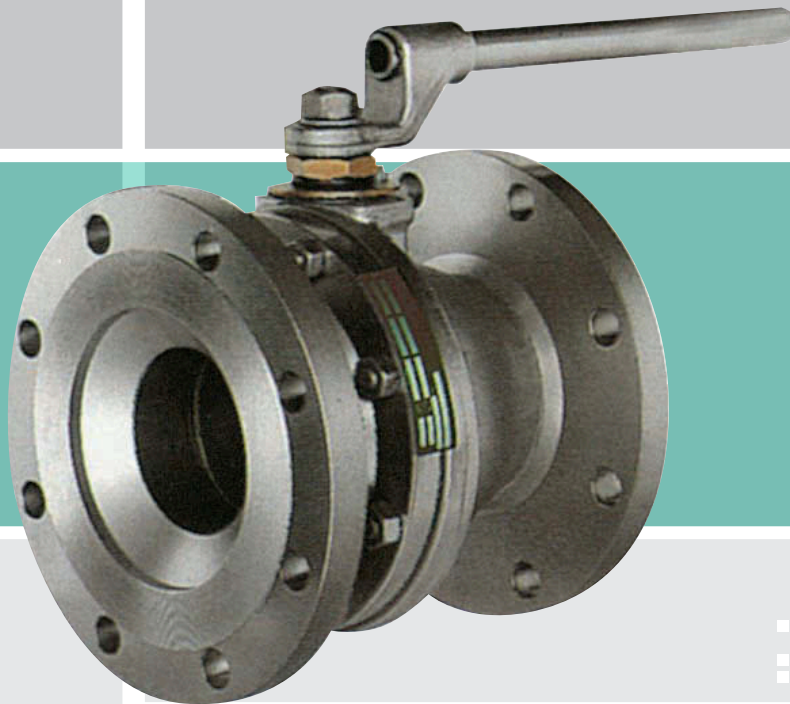




# Split Body

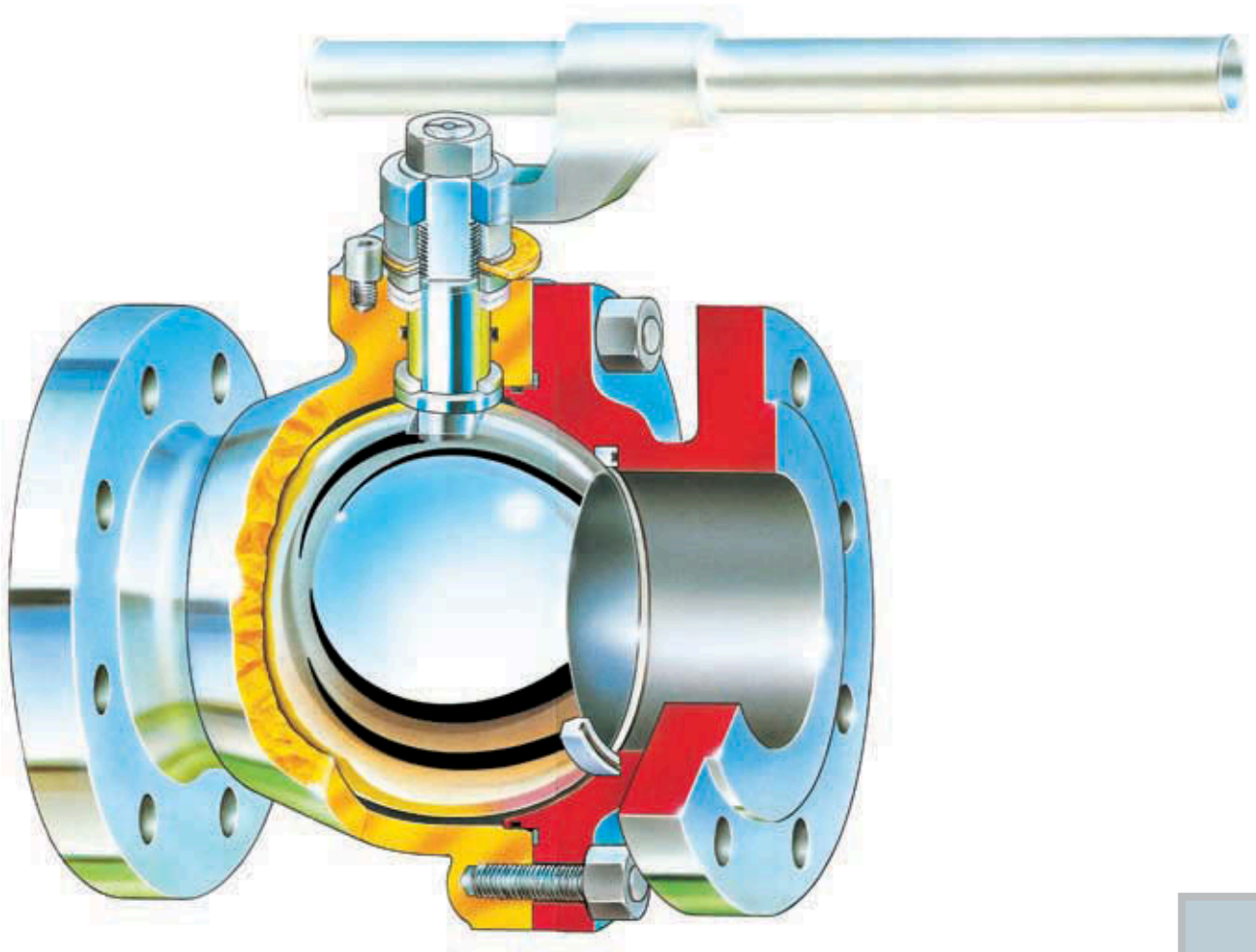


Valvole a  
Sfera



# Split Body

> Valvole a sfera

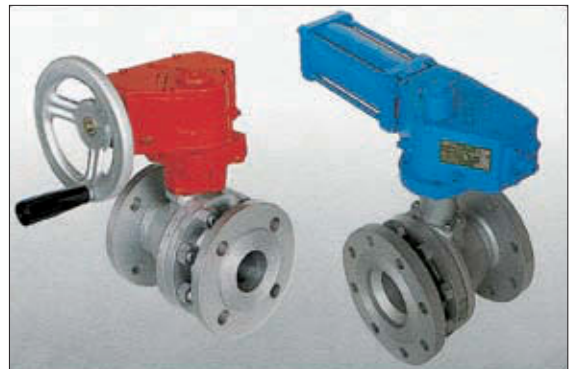


## Normative di Riferimento

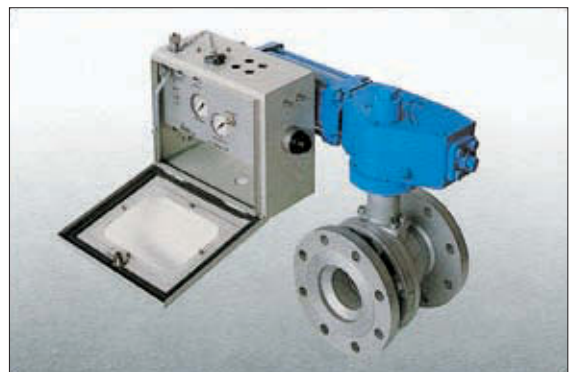
<b>ASTM</b>	American Society for Testing and Materials
<b>ASME</b>	American Society of Mechanical Engineers
<b>NACE</b>	National Association of Corrosion Engineers
MR-01-75	Sulfide Stress Cracking Resistant material For Oil Field Equipment
<b>API</b>	American Petroleum Institute
Spec. 607	Fire test for soft-seated quarter turn valves
Std. 598	Valve Inspection and Test
<b>ANSI/ASME</b>	American National Standard Institute
B16.5	Steel Pipe Flangers and Flanged Fittings
B16.10	Face to Face and End to End Dimension of Ferrous Valves
B16.25	Butt-Welding End
B16.34	Steel Valves
B31.8	Gas Transmission and Distribution Piping System
<b>MSS-SP</b>	Manufacturers Standardization Society of the valve Fitting industry
SP6	Standard Finish for Contact Face of Pipe Flanges and Connecting End Flanges of Valves and Fittings
SP25	Standard marking System for Valves Fittings Flanges and Unions
SP61	Hydrostatic Testing of Steel Valves
<b>BRITISH STANDARD</b>	
BS4504	Flanges and Bolting for pipes, Valves and Fittings
BS5351	Steel ball Valves for the Petroleum Petrochemicals and Allied Industries
BS6755	Testing of Valves Part. 1 Specification for production Pressure Testing Requirements Part. 2 Specification for Fire Type - Testing Requirements



Attuatore pneumatico con ritorno a molla



Comando a volantino    Attuatore pneumatico a doppio effetto



Attuatore pneumatico line off

# Split Body



> Valvole a sfera

## Valvola a sfera flottante passaggio totale e ridotto

FIG. 600

PASS. TOTALE  
DN 11/2" ± 6" CLASSE 150 - 300

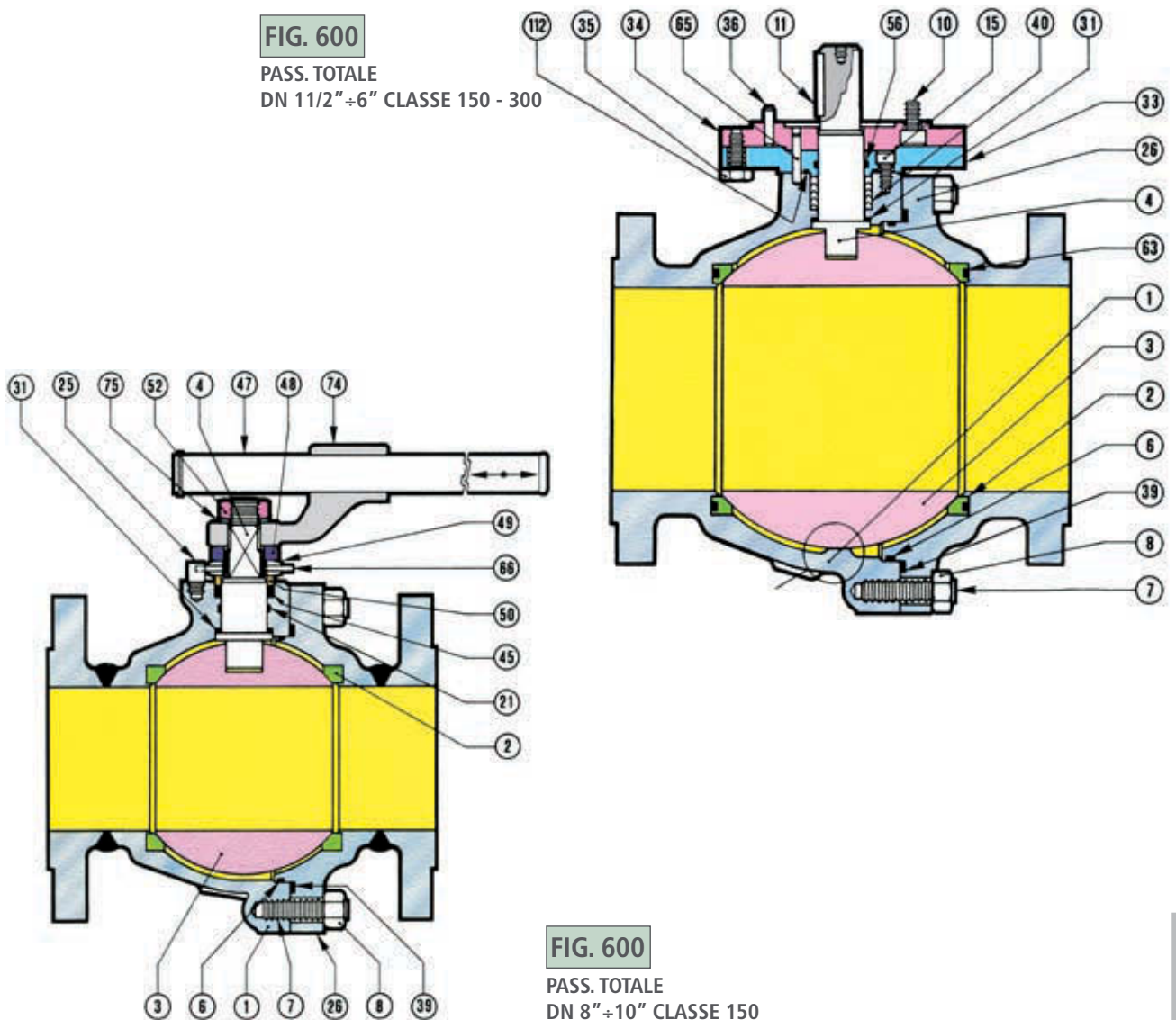
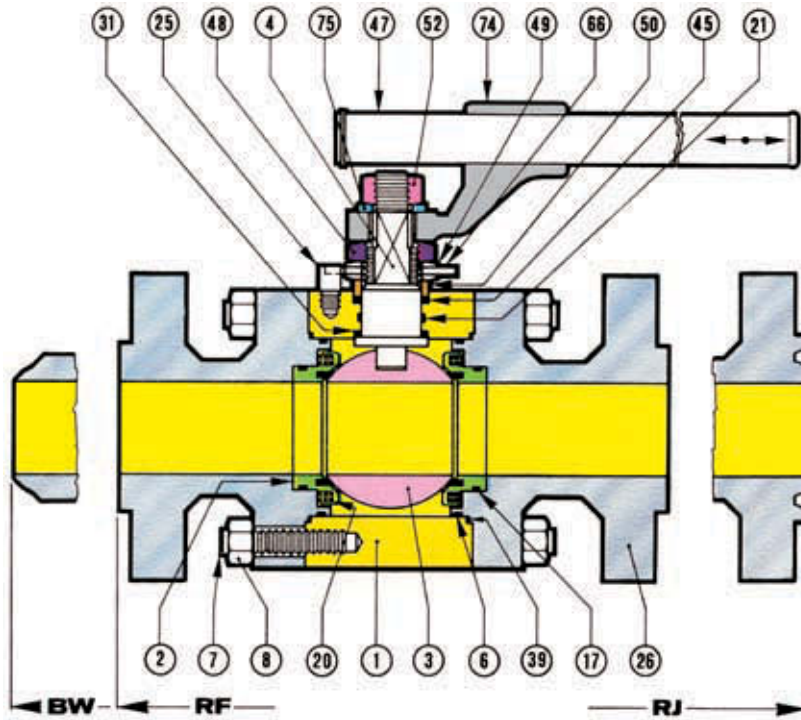
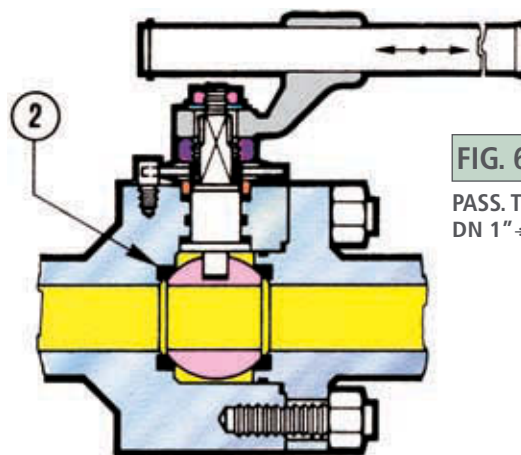
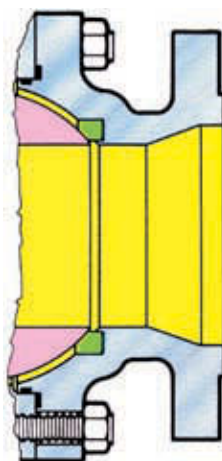


FIG. 600

PASS. TOTALE  
DN 8" ± 10" CLASSE 150


**FIG. 600**

PASS. TOTALE  
DN 2" ÷ 4" CLASSE 600

**FIG. 650**  
PASS. RIDOTTO

**FIG. 600**

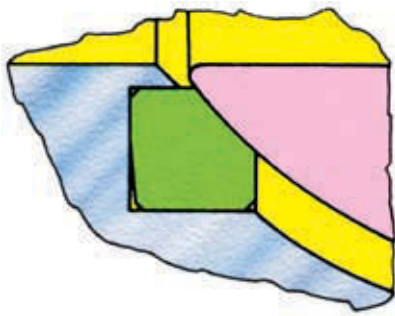
PASS. TOTALE  
DN 1" ÷ 1 1/2" CLASSE 600

# Split Body

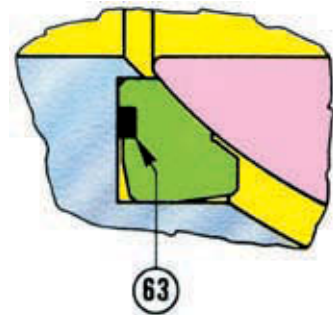


> Valvole a sfera

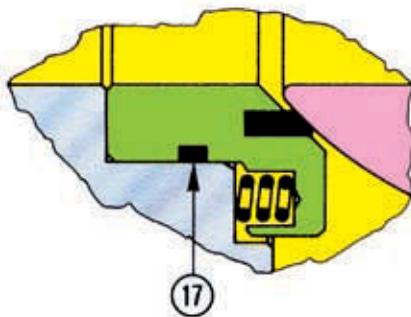
## Caratteristiche costruttive



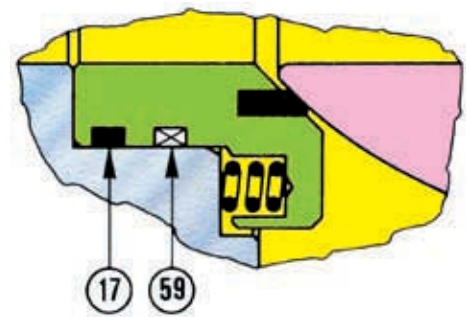
Sede standard  
DN 1" ÷ 1 1/2" classe 600



Sede Standard  
DN 4" ÷ 10" classe 150-300

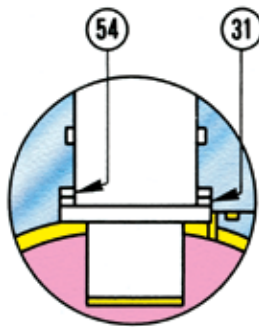


Sede Standard  
DN 2" ÷ 4" classe 600

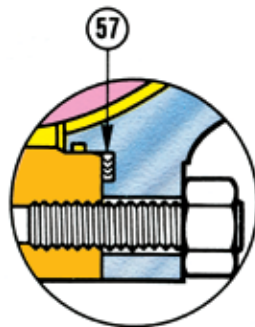


Sede Fire Safe  
API 607 & BS 6755  
DN 2" ÷ 4" classe 600

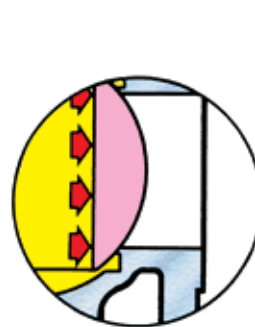
## Esecuzione fire safe API 607 & BS 6755



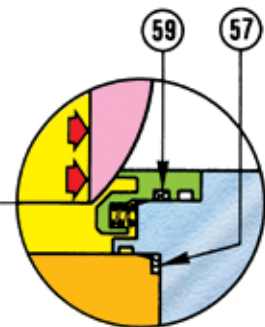
Stelo



Corpo

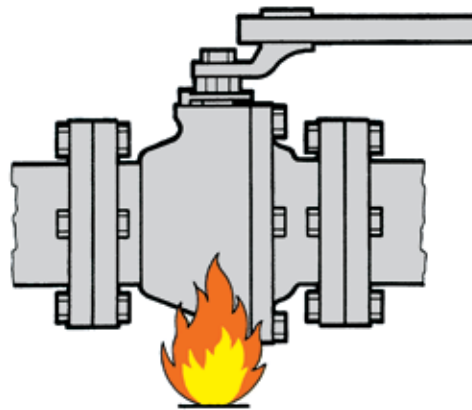


Sede in PTFE



Sede metallica

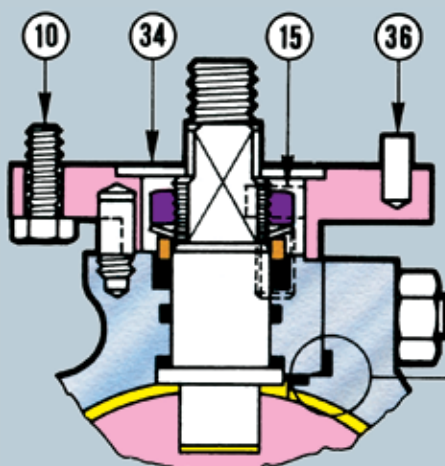
Tenuta sfera e corpo  
metallo su metallo



Tenuta sfera e corpo su metallo

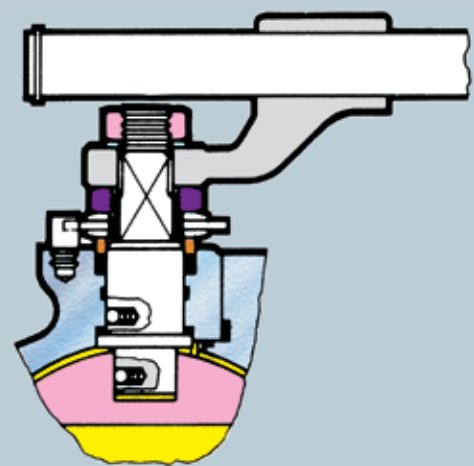
### STELO ANTIESPULSIONE

Lo stelo si può montare solo dalla parte interna della valvola, un robusto collare lo trattiene all'interno del corpo. Questa soluzione permette di sostituire la guarnizione esterna sullo stelo qualora venga danneggiata.



Doppia tenuta sul corpo  
per tutti i calibri

Esecuzione per comando  
DN 11/2"÷6" class 150-300



Dispositivo antistatico (su richiesta)



## Materiali di costruzione

GRUPPO CORPO		NUM. TRIM
POS.	DESCRIZIONE	10
1	CORPO	ASTM A 350 LF2
7	TIRANTE	ASTM A 193-B7*
8	DADO	ASTM A 194-2H*
10-15-25	VITE	ISO 898/1-8.8"
11	LINGUETTA	AISI 4140
25	VITE DI FERMO	ISO 898/1-8.8"
26	IMBOCCO	ASTM A 350 LF2
33	FLANGIA PREM.	ASTM A 105
34	FLANGIA	ASTM A 350 LF2
36-65	SPINA	AISI 4140*
47	LEVA	ASTM A 106*
48-52	DADO	ISO 898/1-6 S*
49	MOLLE A TAZZA	AISI 1075
66	FERMO STELO	AISI 1040*
74	MOZZO A LEVA	ASTM A 105*
75	ROSETTA	ASTM A 283=GrC*
	<b>LIMITE TEMPERATURA</b>	29°C (-20°F)

Note: \* rivestimento di zincatura  
ENP: rivestimento di nikel  
Cr: rivestimento di cromo

GRUPPO INTERNO		TRIM NUM.
POS.	DESCRIZIONE	30
2	SEDE DN2"±4" Class 600	RPTFE
3	SFERA DN≤11/2"	AISI 304
	SFERA DN≥2"	ASTM A 105+Cr
4	STELO	AISI 410
20	MOLLA	AISI 302
50	PREMITRECCIE	AISI 1018*
	<b>LIMITE TEMPERATURA</b>	29°C (-20°F)

GRUPPO GUARNIZIONI		COD. TRIM	
POS.	DESCRIZIONE	NBR	FKM
2	INSERTO SEDE E SEDE	RPTFE	RPTFE
31	CUSCINETTO	PTFE	PTFE
39	GUARNIZIONE	PTFE	PTFE
40-45	BADERNA	PTFE	PTFE
6-21-17-56-63-112	O RING	NITILE/BUNA-N	VITRON
54-59	ANELLO FIRESAFE	GRAFITE	
57	ANELLO FIRESAFE	AISI316 + GRAFITE	
	<b>LIMITE TEMPERATURA</b>	-29°Cto + 121°C (+20°F to 250°C)	-10°Cto + 200°C (-14°F to 392°C)

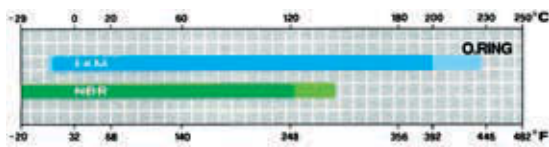




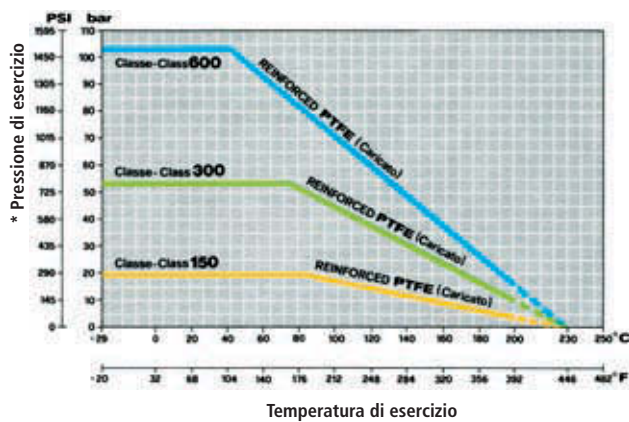
# Split Body

## DATI TECNICI

### Rating pressione - Temperatura guarnizioni della sede



■ Servizio continuo  
■ Servizio intermittente



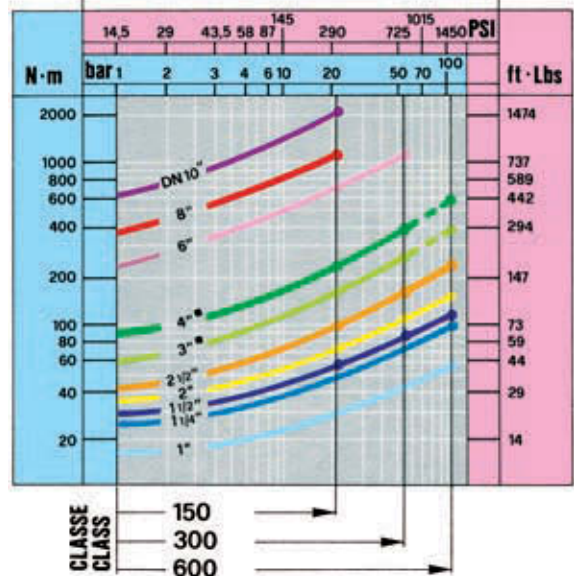
Servizio continuo  
 Servizio intermittente

\* I valori sono riferiti al materiale ASTM A105/ASTM A350LF2. Per rating di altri materiali far riferimento alla norma ANSI B 16.34.

CLASSE	PROVA IDROSTATICA				PROVA PNEUMATICA	
	CORPO		SEDE		SEDE	
	bar	PSI	bar	PSI	bar	PSI
150	29,3	435	20,7	305	5,6	80
300	75,9	1100	55,2	800	5,6	80
600	150	2175	110,4	1600	5,6	80

### Momento torcente

$\Delta P$ : Pressione differenziale della sfera a valvola completamente chiusa.



■ DN 3"-4" Classe 600

$\Delta p$  max 65bar (per  $\Delta p$  da 66 a 102 bar usare valvola a sfera trunnion fig 130/160)

La tabella indica il momento torcente delle valvole a sfera Pietro Fiorentini in condizioni di funzionamento a temperatura ambiente.

Per il dimensionamento dell'attuatore e per servizio alta/bassa temperatura si raccomanda di tener conto di un coefficiente di sicurezza.

Il momento torcente delle valvole a passaggio ridotto è riferito al diametro nominale più piccolo.

#### Esempio:

Fig. 600.3 DN 6" Classe 300 = 1050 Nm (774 Ft. lbs)

Fig. 650 3 DN 8"x6" Classe 300 = 1050 Nm (774 Ft. lbs)

# Passaggio Totale

## Dimensioni d'ingombro valvole a sfera flottante Split Body

### PASSAGGIO TOTALE

Fig. 600-1

CLASSE 150

DN	RF	D	E(S <sub>1</sub> )	H	H <sub>2</sub> (H <sub>1</sub> )	L	P	PESO	COMANDO	
1½"	165	38	235	107	134			9,2	LEVER	
2"	178	51	350	130	162			13,0	LEVER	
2½"	191	64	350	145	177			22,5	LEVER	
3"	203	76	550	165	202			28,6	LEVER	
4"	229	102	550	185	220			45,5	LEVER	
6"	394	152	700	255	300			66	LEVER	
8"	457	203	(90)		(340)	500	345	220	MG100	
10"	534	254	(90)		(390)	500	345	329	MG100	
POLLICI		MILLIMETRI					Kg. =		TIPO	

Fig. 600-3

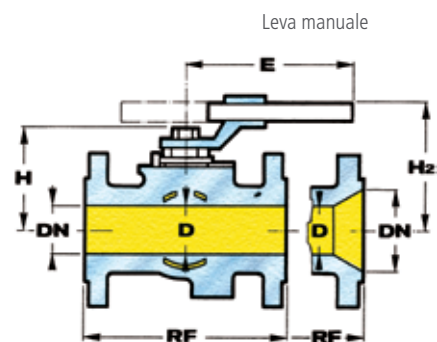
CLASSE 300

DN	RF	D	E	H	H <sub>2</sub>	PESO	COMANDO			
1½"	191	38	235	107	134	12,2	LEVER			
2"	216	51	350	130	162	16,0	LEVER			
2½"	241	64	350	145	177	28,5	LEVER			
3"	283	76	550	165	202	33,0	LEVER			
4"	305	102	550	185	220	48	LEVER			
6"	403	152	700	255	300	113	LEVER			
POLLICI		MILLIMETRI					Kg. =		TIPO	

Fig. 600-6

CLASS 600

DN	RF	RJ	BW	D	E	H	H <sub>2</sub>	RF-RJ	BW	COMANDO
1"	216	216	216	25	350	86	111	10,0	7,5	LEVER
1¼"	229	229	229	32	350	98	130	15,5	11	LEVER
1½"	241	241	241	38	350	110	142	18,6	14	LEVER
2"	292	295	292	51	550	140	175	30	26	LEVER
2½"	330	333	330	64	550	147	182	50	42	LEVER
3" ■	356	359	356	76	550	163	198	65	54	LEVER
4" ■	432	435	432	102	700	200	245	105	89	LEVER
POLLICI		MILLIMETRI					Kg. =		TIPO	



RIDOTTO



# Split Body

## PASSAGGIO TOTALE

Fig. 650-1

DN	RF	D	E(S <sub>1</sub> )	H	H <sub>2</sub> (H <sub>1</sub> )	L	P	PESO	COMANDO	
2" x 1 1/2"	178	38	235	107	134			10,1	LEVER	
2 1/2" x 2"	191	51	350	130	162			15,3	LEVER	
3" x 2"	203	51	350	130	162			17,9	LEVER	
4" x 3"	229	76	550	165	202			31,3	LEVER	
5" x 4"	254	102	550	185	220			43,5	LEVER	
6" x 4"	267	102	550	185	220			46,0	LEVER	
8" x 6"	292	152	700	255	300			98	LEVER	
10" x 8"	330	203	(90)		(340)	500	345	217	MG100	
12" x 10"	610	254	(90)		(390)	500	345	360	MG100	
<b>POLLICI</b>	<b>MILLIMETRI</b>						<b>Kg. =</b>	<b>TYPE</b>		

CLASSE 150

Fig. 650-3

DN	RF	D	E	H	H <sub>2</sub>	PESO	COMANDO	
2" x 1 1/2"	216	38	235	107	134	12,7	LEVER	
2 1/2" x 2"	241	51	350	130	162	23,5	LEVER	
3" x 2"	283	51	350	130	162	25,2	LEVER	
4" x 3"	305	76	550	165	202	41,1	LEVER	
5" x 4"	381	102	550	185	220	68	LEVER	
6" x 4"	403	102	550	185	220	72	LEVER	
8" x 6"	419	152	700	255	300	122	LEVER	
<b>POLLICI</b>	<b>MILLIMETRI</b>						<b>Kg. =</b>	<b>TYPE</b>

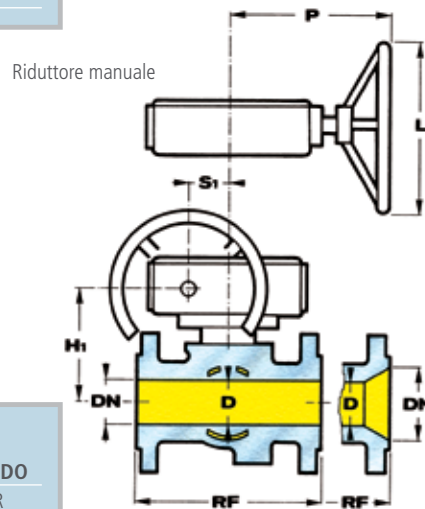
CLASSE 300

Fig. 650-6

DN	RF	RJ	BW	D	E	H	H <sub>2</sub>	PESO		COMANDO
								RF-RJ	BW	
1 1/4" x 1"	229	229	229	25	350	86	111	10,3	8	LEVER
1 1/2" x 1 1/4"	241	241	241	32	350	98	130	15,5	12	LEVER
2" x 1 1/2"	292	295	292	38	350	110	142	19,1	15	LEVER
2 1/2" x 2"	330	333	330	51	550	140	175	34,5	22	LEVER
3" x 2"	356	259	356	51	550	140	175	39	26	LEVER
4" x 3"	432	435	432	76	550	163	198	75	53	LEVER
5" x 4"	508	511	508	102	700	200	198	140	95	LEVER
6" x 4"	559	563	559	102	700	200	245	150	105	LEVER
<b>POLLICI</b>	<b>MILLIMETRI</b>						<b>Kg. =</b>	<b>TYPE</b>		

CLASSE 600

Vista laterale riduttore manuale



Riduttore manuale

RIDOTTO

Note

- per  $\Delta p$  da 66 a 102 bar usare valvola a sfera trunnion fig 130/160

# Passaggio Ridotto



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CT-s518-I Giugno 2007